

ARMY  
NAVY  
AIR FORCE

TM 11-5895-856-34-20  
EE640-CA-MMI-200/E154 CPU  
TO 31W2-2T-122-20

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TECHNICAL MANUAL  
DIRECT SUPPORT AND GENERAL SUPPORT  
MAINTENANCE MANUAL  
FOR  
CENTRAL, MESSAGE SWITCHING AUTOMATIC  
AN/TYC-29(V)1  
AND  
CENTRAL OFFICE, TELEPHONE AUTOMATIC  
AN/TTC-39(V)2  
AUTOMATIC DATA PROCESSING  
ASSEMBLIES

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DEPARTMENTS OF THE ARMY, NAVY AND AIR FORCE

22 SEPTEMBER 1983



**5**

**SAFETY STEPS TO FOLLOW IF SOMEONE IS THE VICTIM OF ELECTRICAL SHOCK**

**1**

**DO NOT TRY TO PULL OR GRAB THE INDIVIDUAL**

**2**

**IF POSSIBLE, TURN OFF THE ELECTRICAL POWER**

**3**

**IF YOU CANNOT TURN OFF THE ELECTRICAL POWER, PULL, PUSH, OR LIFT THE PERSON TO SAFETY USING A DRY WOODEN POLE OR A DRY ROPE OR SOME OTHER INSULATING MATERIAL**

**4**

**SEND FOR HELP AS SOON AS POSSIBLE**

**5**

**AFTER THE INJURED PERSON IS FREE OF CONTACT WITH THE SOURCE OF ELECTRICAL SHOCK, MOVE THE PERSON A SHORT DISTANCE AWAY AND IMMEDIATELY START ARTIFICIAL RESUSCITATION**



**WARNING**

**HIGH VOLTAGE**

is used in the operation of this equipment

**DEATH ON CONTACT**

may result if personnel fail to observe safety precautions. Learn the areas containing high voltage in each piece of equipment. Be careful not to contact high-voltage connections when installing or operating this equipment. Before working inside the equipment, turn power off and ground points of high potential before touching them.

**WARNING**

**USE OF CLEANING SOLVENT**

Adequate ventilation should be provided while using TRICHLOROTRI-FLUOROETHANE (NSN 6850-00-105-3084). Prolonged breathing of vapor should be avoided. The solvent should not be used near heat or open flame, the products of decomposition are toxic and irritating. Since TRICHLOROTRI-FLUOROETHANE dissolves natural oils, prolonged contact with skin should be avoided. When necessary, use gloves which the solvent cannot penetrate. If the solvent is taken internally, consult a physician immediately.

INSERT LATEST CHANGED PAGES. DESTROY SUPERSEDED PAGES.

**LIST OF EFFECTIVE PAGES**

Dates of issue for original and changed pages are:

Original..... 0.....

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 456 CONSISTING OF THE FOLLOWING:

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|----------------------|-------------|----------|-------------|----------|-------------|
| Cover .....          | 0           |          |             |          |             |
| Safety Steps .....   | 0           |          |             |          |             |
| a - b .....          | 0           |          |             |          |             |
| i - ii .....         | 0           |          |             |          |             |
| (149019-880)         |             |          |             |          |             |
| 1 - 441 .....        | 0           |          |             |          |             |
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# Zero in this column indicates an original page.

**TM 11-5895-856-34-20  
EE640-CA-MMI- 200/E154 CPU  
TO 31 W2-2T-122-20**

TECHNICAL MANUAL  
TO. 11-5895-856-34-20  
TECHNICAL MANUAL  
EE640-CA-MMI-200/E154 CPU  
TECHNICAL ORDER  
TO31W2-2T-122-20

DEPARTMENTS OF THE ARMY  
THE NAVY, AND  
THE AIR FORCE

Washington, DC, 22 September 1983

**DIRECT SUPPORT AND GENERAL SUPPORT  
MAINTENANCE MANUAL  
FOR  
CENTRAL, MESSAGE SWITCHING, AUTOMATIC  
AN/TYC-39(V)1  
AND  
CENTRAL OFFICE, TELEPHONE, AUTOMATIC  
AN/TTC-39(V)2  
  
AUTOMATIC DATA PROCESSING  
ASSEMBLIES**

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703.

For Air Force, submit AFTO Form 22 (Technical Order System Publication Improvement Report and Reply) in accordance with paragraph 6-5, Section VI, T.O. 00-5-1. Forward direct to prime ALC/MST.

For Navy, mail comments to the Commander, Naval Electronics Systems Command, ATTN: ELEX 8122, Washington, DC 20360.

In either case, a reply will be furnished direct to you.

## TABLE OF CONTENTS

### VOLUME 20 TM 11-5895-856-34-20

Card Cage Assembly, Input/Output Unit- L.H., Wire List, Connector (149019-880)

This volume is part of a 24-volume set covering the direct support and general support maintenance of the automatic data processing assemblies. This volume contains the connector wire list for the left-hand card cage assembly of the input/output unit, drawing number 149019-880. Refer to volume 1 of this series (TM 11-5895-856-34-1) for an explanation of how to use this wire list as well as other lists contained in the set.

### NOTE

The pages in volumes 2 through 24 of TM 11-5895-856-34 have been numbered in a special manner. Pages within these volumes are found by keying to two page identifiers: the drawing number and the page number. To find the page that you desire within the volume, follow the steps listed below:

1. Find the applicable wire run list in the table of contents and note the applicable drawing number.
2. Look through the pages of the volume until you find the particular drawing number of the wire run list that you seek. This will insure that you are in the correct wire run section.
3. Go through these pages until you find the page number you are looking for within this particular wire run list.

Remember, pages in the volumes cited above are found by keying to the drawing number applicable to a particular wire run list, as well as, a page number. Make sure you are on the correct page by checking both page identifiers.

**CARD CAGE ASSEMBLY, INPUT/OUTPUT UNIT  
- LEFT HAND  
CONNECTOR WIRE LIST  
149019-880**

**NOTES:** UNLESS OTHERWISE SPECIFIED

1. REFERENCE TO SHEET 3 FOR DEFINITION OF FIELDS.
2. REFERENCE TO SHEET 4 FOR CONFIGURATIONS OF SHIELD AND WIRE TERMINATIONS.
3. REFERENCE TO SHEET 5 OF STRING LIST FOR WIRE CODE DEFINITIONS.
4. REFERENCE TO SHEET 6 OF STRING LIST FOR WIRE SUMMARY LIST.
5. ALL ABBREVIATIONS PER MIL-STD-12.
6. THROUGHOUT THE BODY OF THIS DOCUMENT THE UNIT NAME IS REFERRED TO AS: CARD CAGE ASSY, I/O UNIT.

## H78 STRING AND CONNECTOR LIST, DEFINITION OF FIELDS

1. **Record Number** - A unique Data Processing number which associates all information pertaining to a wire "FROM" Connector "TO" Connector, wire Code, etc. This number is the wire ID when that field's blank.
2. **Prefix** - An assembly alphanumeric to be used when a wire terminates in two assemblies. This number will be the reference designation as required by USAS Y32.16-1968.
3. **Connector** - Any type of terminating point plug, receptacle, etc. Designations are in accordance with USAS Y32.16-2968.
4. **Pin** - Exact terminating point at the respective connector. Designations are unique:
  - A. SHXXXX indicates the junction of a shield and a pigtail, the four digits to the right are the wire identity of the shielded wire.
  - B. JCT indicates a common point of two or more shield pigtails.
  - C. Jacket: the terminology used when describing the line that defines the identification of a shielded wire.
5. **Sh Fg** - References a graphic representation showing how a shielded wire or coax is to be terminated. A number in this field indicates the level of automatic wire wrapping.
6. **Multi Group** - Associates wires of a group such as "twisted wire" or "shielded wire". Jacket, pigtails and center conductors will be shown as a common group.
7. **Wire Code** - A three-digit code for wire type and gage or bus bar.
8. **Wire color** - Standard RETMA color code.
  - A. Base Stripe Tracer.
  - B. Stripe. Tracer 1 and Tracer 2 if the digit to the left is other than 9 and the two positions to the right are not blank and not equal. The Base Color is understood to be white.
9. **Wire Ident** - A number used for reference to differentiate one wire from another. This number will be used to identify the wire when specified in the wire list sleeve code field.
10. **Spc Inst** - A code which indicates that a wire must be given special attention as follows:
  - A. Direct routing, no service loops, no harnessing.
  - B. See general notes or instruction pages.
  - C. See general notes or instruction pages.
  - D. See general notes or instruction pages.
  - E. See general notes or instruction pages.
  - F. See signal description.
  - G. This connection does not go directly to the 'TO' connector, but intersects a line going to the "TO" connector.
  - H. See special routing page.
  - I. Junction point for multilayer laminated board (MLB) connection.
  - J. Denotes a bus reference point.
  - K. Blank out "TO" connector and pin.
  - L. Will cause a signal name of three characters or less to be entered in the string list.
  - M. will cause a record to be omitted from the string list. (This record will print in the connector list.)
  - N. Will suppress printing the wire identity in the harness string and double entry list.
  - P. Will cause the equation to be used as the signal name for sorting purposes only in the string list.

**Drawing No.**  
**149019-880**  
**Rev. G, sheet 2**

**H78 STRING AND CONNECTOR LIST, DEFINITION OF FIELDS - Continued**

- Q. Will cause an equation record to be omitted from logic listing.
- R. Will suppress printing the "FROM TO" pin number in the string and connector lists.
- S. Do not move record number to the ident field for an ADD transaction in the harness string and double entry only (Use only when adding a tile.)
- T. Twist wire code.
- U. Not available.
- V. See general notes or instruction pages.
- W. Fixed wire length submitted
- X. Sequence of string is to be left as is.
- Y. See general notes or instruction pages.
- Z. Will suppress printing of the "FROM" pin.

- 10. **Misc** - Unless otherwise noted, the number 1 indicates a pre-wired connector.
- 11. **Signal** - An alphanumeric signal name, mnemonic where feasible which identifies one specific function from another.

SPP - Denotes an available termination.

SPF - Denotes an unwired termination which has an assigned function.

SPW - Denotes a non-functional wire which is terminated at one or both ends.

SPO - Denotes a spare output of a circuit.

DNW - Indicates that a termination may not be wired.

SPA - Denotes an unassigned circuit, as one of a group on a printed circuit board.

SPI - Denotes a spare input of a circuit.

SPG - Denotes an unassigned logic gate, as one of a group on a printed circuit board.

SPR - Denotes a spare resistor.

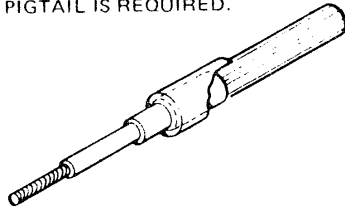
SPD - Denotes an unassigned input diode of an assigned logic gate.

- 12. **Seq No.** - A number which in conjunction with SIGNAL, allows a signal string to be consistently printed in a given order.
- 13. **Equation** - A mnemonic name assigned to each gate of an element.
- 14. **Term** - An "OR" function composed of one or more factors.
- 15. **Factor** - A specific input to a logical gate or active element.
- 16. **Ckt or Chip Type** - Denotes a specific circuit board type.
- 17. **Group** - Denotes a specific circuit on a printed circuit board.
- 18. **Load or Power Plane** - Denotes the current draw in milliamps by a specific circuit or voltage.
- 19. **AND Test Point** - Denotes the input test point for a specific circuit on a printed circuit board.
- 20. **OR Test Point** - Denotes the output test point for a specific circuit on a circuit board.
- 21. **Signal Description** - A written description or name of a signal or voltage.
- 22. **ECO No.** - A letter number combination to show the Engineering Change Order level of that particular wire list record.

**Drawing No.**  
**149019-880**  
**Rev. G, sheet 3**

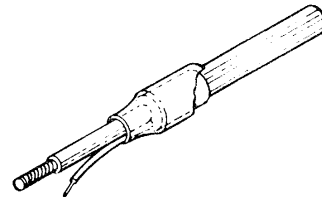
SHIELD FIGURE A

SHIELD TERMINATION FOR SHIELDED,  
SINGLE AND MULTIPLE CONDUCTORS,  
NO PIGTAIL IS REQUIRED.



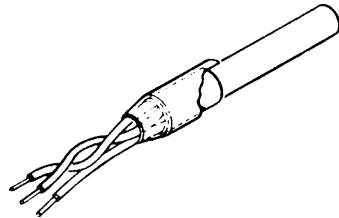
SHIELD FIGURE B

SHIELD TERMINATION FOR SHIELDED,  
SINGLE AND MULTIPLE CONDUCTORS,  
FRONT PIGTAIL IS REQUIRED.



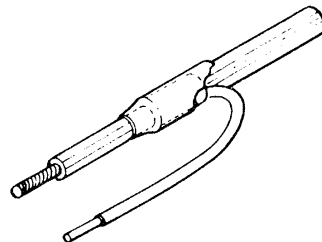
SHIELD FIGURE G

SHIELDED CABLE TERMINATION WITH DRAIN WIRE



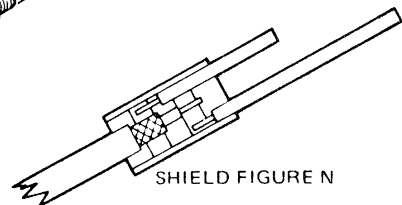
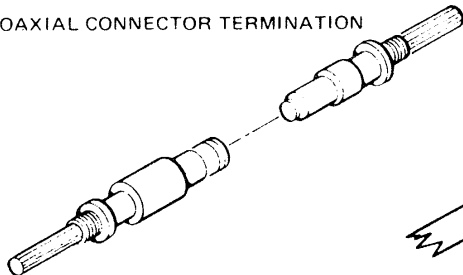
SHIELD FIGURE C

SHIELD TERMINATION FOR SHIELDED,  
SINGLE AND MULTIPLE CONDUCTORS,  
A REAR PIGTAIL IS REQUIRED.



SHIELD FIGURE Z

COAXIAL CONNECTOR TERMINATION



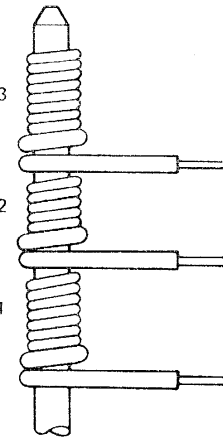
SHIELD FIGURE N

TRANSITION DEVICE WITH  
SOLID WIRE PIGTAILS

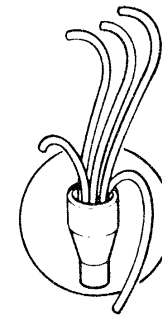
SHIELD FIGURE NO. 3

SHIELD FIGURE NO. 2

SHIELD FIGURE NO. 1

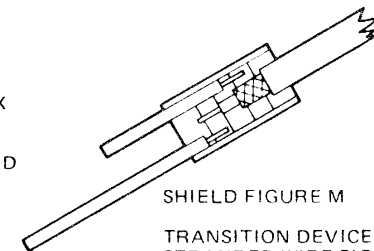


SHIELD FIGURE NUMBER  
INDICATES LEVEL OF WIRE WRAP



SHIELD FIGURE X

SHIELDED WIRE  
PIGTAILS--HYBRID



SHIELD FIGURE M

TRANSITION DEVICE WITH  
STRANDED WIRE PIGTAILS

Drawing No.

149019-880

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DRAWING NUMBER 149019-880

CONNECTOR

UNIT ASSEMBLY NO. 149019

REV G INDEX

UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

FILE IDENT T39BIUX2

DATE 09-03-82 PAGE 5

| RECORD NUMBER                                 | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQU. TION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|-----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |        |        |           |      |        |                  |       |                     |                    |                    |        |
| 21074   | J01    | A1        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 21075   | J01    | A2        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 21076   | J01    | A3        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 21072   | J01    | A4        |     |      | XA201  | 15        |     | JC   | 1ED         | 9    |       |       | KIOPON | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 21077   | J01    | A5        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20882   | J01    | A6        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 21071   | J01    | A6        |     |      | XA201  | 16        |     | JC   | 1ED         | 0    |       |       | KIOP06 | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20852   | J01    | B1        |     |      |        |           |     |      |             |      |       |       | +5V    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20860   | J01    | B1        |     |      | J01    | D1        |     |      | 1BD         | 2    |       |       | +5V01  | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20883   | J01    | B2        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20853   | J01    | B3        |     |      |        |           |     |      |             |      |       |       | +5V    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20868   | J01    | B3        |     |      | J01    | F3        |     |      | 1BD         | 2    |       |       | +5V05  | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20884   | J01    | B4        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20854   | J01    | B5        |     |      |        |           |     |      |             |      |       |       | +5V    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20885   | J01    | B6        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20886   | J01    | C1        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20855   | J01    | C2        |     |      |        |           |     |      |             |      |       |       | +5V    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20866   | J01    | C2        |     |      | J01    | F1        |     |      | 1BD         | 2    |       |       | +5V04  | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20887   | J01    | C3        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20856   | J01    | C4        |     |      |        |           |     |      |             |      |       |       | +5V    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20862   | J01    | C4        |     |      | J01    | E4        |     |      | 1BD         | 2    |       |       | +5V02  | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20888   | J01    | C5        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20857   | J01    | C6        |     |      |        |           |     |      |             |      |       |       | +5V    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20864   | J01    | C6        |     |      | J01    | E6        |     |      | 1BD         | 2    |       |       | +5V03  | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20861   | J01    | D1        |     |      |        |           |     |      |             |      |       |       | +5V01  | 02     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20889   | J01    | D2        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20858   | J01    | D3        |     |      |        |           |     |      |             |      |       |       | +5V    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20872   | J01    | D3        |     |      | J01    | N2        |     |      | 1BD         | 2    |       |       | +5V07  | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20890   | J01    | D4        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20859   | J01    | D5        |     |      |        |           |     |      |             |      |       |       | +5V    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20870   | J01    | D5        |     |      | J01    | F5        |     |      | 1BD         | 2    |       |       | +5V06  | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20891   | J01    | D6        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20875   | J01    | E2        |     |      | XA201  | 07        |     | PK   | 1ED         | 2    |       |       | EPSFLT | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20874   | J01    | E3        |     |      | XA201  | 08        |     | PK   | 1ED         | 0    |       |       | EPSFLG | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20892   | J01    | E3        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20863   | J01    | E4        |     |      |        |           |     |      |             |      |       |       | +5V02  | 02     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20877   | J01    | E5        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20865   | J01    | E6        |     |      |        |           |     |      |             |      |       |       | +5V03  | 02     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20867   | J01    | F1        |     |      |        |           |     |      |             |      |       |       | +5V04  | 02     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20893   | J01    | F2        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20869   | J01    | F3        |     |      |        |           |     |      |             |      |       |       | +5V05  | 02     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20894   | J01    | F4        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 20871   | J01    | F5        |     |      |        |           |     |      |             |      |       |       | +5V06  | 02     |           |      |        | EX9              |       |                     |                    |                    |        |
| 20895   | J01    | F6        |     |      |        |           |     |      |             |      |       |       | GND    | 01     | GROUND    |      |        | EX9              |       |                     |                    |                    |        |
| 21078   | J01    | H1        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 21079   | J01    | H2        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 21080   | J01    | H5        |     |      |        |           |     |      |             |      |       |       | GND    | 01     |           |      |        | EX9              |       |                     |                    | A31                |        |
| 21081   | J01    | H6        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 21082   | J01    | J1        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| 21083   | J01    | K1        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |           |      |        | EX9              |       |                     |                    |                    |        |
| CONNECTOR J01 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |           |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX J01  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 6

| RECORD NUMBER                                     | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL | SFC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | HTG | PREFIX | CONNECTOR | PIN | HTG | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 21084   | J01    |           | K2  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | EX9              |       |                     |                    | A01                |        |
| 21085   | J01    |           | K5  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21086   | J01    |           | K6  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21123   | J01    |           | L1  |     | XA106  | 02        |     | LT  | 1ED         | 0    |       |       | ZDDISG | 01     |          |      |        | EX9              |       |                     |                    | C08                |        |
| 21121   | J01    |           | L2  |     | XA107  | 05        |     | LT  | 1ED         | 9    |       |       | ZDDISA | 01     |          |      |        | EX9              |       |                     |                    | C08                |        |
| 21118   | J01    |           | L3  |     | XA107  | 52        |     | LS  | 1ED         | 0    |       |       | ZDDDRG | 01     |          |      |        | EX9              |       |                     |                    | C08                |        |
| 21330   | J01    |           | L3  |     |        |           |     |     |             |      |       |       | GND    |        |          |      |        | EX9              |       |                     |                    | A01                |        |
| 21119   | J01    |           | L4  |     | XA107  | 71        |     | LS  | 1ED         | 9    |       |       | ZDDDRB | AA     |          |      |        | EX9              |       |                     |                    | C08                |        |
| 20847   | J01    |           | L5  |     | XA201  | 10        |     | JB  | 1ED         | 0    |       |       | +5AXIR | 01     |          |      |        | EX9              |       |                     |                    | B06                |        |
| 21331   | J01    |           | L5  |     |        |           |     |     |             |      |       |       | GND    |        |          |      |        | EX9              |       |                     |                    | A01                |        |
| 20845   | J01    |           | L6  |     | XA201  | 09        |     | JB  | 1ED         | 2    |       |       | +5AXIC | 01     |          |      |        | EX9              |       |                     |                    | B06                |        |
| 21073   | J01    |           | M2  |     | XA107  | 42        |     |     | 1BD         | 9    |       |       | LOGIOP | 005    |          |      |        | EX9              |       |                     |                    |                    |        |
| 21087   | J01    |           | M3  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21088   | J01    |           | M4  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | EX9              |       |                     |                    | A01                |        |
| 21089   | J01    |           | M5  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21090   | J01    |           | M6  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21091   | J01    |           | N1  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 20873   | J01    |           | N2  |     |        |           |     |     |             |      |       |       | +5V07  | 02     |          |      |        | EX9              |       |                     |                    |                    |        |
| 20896   | J01    |           | N3  |     |        |           |     |     |             |      |       |       | GND    | 01     | GROUND   |      |        | EX9              |       |                     |                    |                    |        |
| 21092   | J01    |           | N4  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21093   | J01    |           | N5  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21094   | J01    |           | N6  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21095   | J01    |           | P1  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21096   | J01    |           | P2  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21097   | J01    |           | P3  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21098   | J01    |           | P4  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | EX9              |       |                     |                    | A01                |        |
| 21099   | J01    |           | P5  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21100   | J01    |           | P6  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21101   | J01    |           | R1  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21102   | J01    |           | R2  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21103   | J01    |           | R3  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21104   | J01    |           | R4  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21105   | J01    |           | R5  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | EX9              |       |                     |                    | A01                |        |
| 21106   | J01    |           | R6  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21107   | J01    |           | S1  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21108   | J01    |           | S2  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | EX9              |       |                     |                    | A01                |        |
| 21109   | J01    |           | S3  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21110   | J01    |           | S4  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21111   | J01    |           | S5  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        | EX9              |       |                     |                    |                    |        |
| 21112   | J01    |           | S6  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | EX9              |       |                     |                    | A01                |        |
| 06321   |        | XA104     | 01  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 01710   |        | XA104     | 02  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    | 804                |        |
| 06322   |        | XA104     | 03  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06323   |        | XA104     | 04  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06324   |        | XA104     | 05  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06325   |        | XA104     | 06  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06326   |        | XA104     | 07  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06327   |        | XA104     | 08  |     |        |           |     |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| CONNECTOR (XA104) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA104  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 7

| RECORD NUMBER                                   | PREFIX | CONNECTOR | PIN | INTFC | PREFIX | CONNECTOR | PIN | INTFC | MULTI GROUP | CODE | COLOR | IDENT | SPEC. MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACT | OR CHIP TYPE | GROUP | OR POWER PLANE | TEST POINTS AND OF | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|------------|--------|--------|----------|------|------|--------------|-------|----------------|--------------------|--------------------|--------|
| 06328   |        | XA104     | 09  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06329   |        | XA104     | 10  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06330   |        | XA104     | 11  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 00280   |        | XA104     | 12  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    | A01    |
| 06331   |        | XA104     | 13  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06332   |        | XA104     | 14  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06333   |        | XA104     | 15  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 01711   |        | XA104     | 16  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    | A01    |
| 06334   |        | XA104     | 17  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06335   |        | XA104     | 18  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06336   |        | XA104     | 19  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06337   |        | XA104     | 20  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06338   |        | XA104     | 21  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06339   |        | XA104     | 22  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06340   |        | XA104     | 23  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06341   |        | XA104     | 24  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06342   |        | XA104     | 25  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06343   |        | XA104     | 26  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06344   |        | XA104     | 27  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 00281   |        | XA104     | 28  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    | A01    |
| 06345   |        | XA104     | 29  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06346   |        | XA104     | 30  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06347   |        | XA104     | 31  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 01712   |        | XA104     | 32  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    | A01    |
| 06348   |        | XA104     | 33  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06349   |        | XA104     | 34  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06350   |        | XA104     | 35  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06351   |        | XA104     | 36  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06352   |        | XA104     | 37  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06353   |        | XA104     | 38  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06354   |        | XA104     | 39  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06355   |        | XA104     | 40  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06356   |        | XA104     | 41  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06357   |        | XA104     | 42  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06358   |        | XA104     | 43  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 01713   |        | XA104     | 44  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    | A01    |
| 06359   |        | XA104     | 45  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06360   |        | XA104     | 46  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06361   |        | XA104     | 47  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06362   |        | XA104     | 48  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06363   |        | XA104     | 49  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06364   |        | XA104     | 50  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06365   |        | XA104     | 51  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06366   |        | XA104     | 52  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06367   |        | XA104     | 53  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06368   |        | XA104     | 54  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06369   |        | XA104     | 55  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06370   |        | XA104     | 56  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 06371   |        | XA104     | 57  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    |        |
| 01714   |        | XA104     | 58  |       |        |           |     |       |             |      |       |       |            | SPP    | 01     |          |      |      |              |       |                |                    |                    | A01    |
| CONNECTOR XA104 CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |            |        |        |          |      |      |              |       |                |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA104  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 8

| RECORD NUMBER                                     | FROM   |           |     | SN TO | TO     |           |     | MULTI GROUP | WIRE |       |       | SIGNAL | SEC NO | EQUATION | TERM | FACT OR CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|------|--------------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |       | PREFIX | CONNECTOR | PIN |             | CODE | COLOR | IDENT |        |        |          |      |                          |       |                     |                    |                    |        |
| 06372   |        | XA104     | 59  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06373   |        | XA104     | 60  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06374   |        | XA104     | 61  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06375   |        | XA104     | 62  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06376   |        | XA104     | 63  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06377   |        | XA104     | 64  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06378   |        | XA104     | 65  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06379   |        | XA104     | 66  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 01715   |        | XA104     | 67  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    | A01                |        |
| 06380   |        | XA104     | 68  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06381   |        | XA104     | 69  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06382   |        | XA104     | 70  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06383   |        | XA104     | 71  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06384   |        | XA104     | 72  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06385   |        | XA104     | 73  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06386   |        | XA104     | 74  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06387   |        | XA104     | 75  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06388   |        | XA104     | 76  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06389   |        | XA104     | 77  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06390   |        | XA104     | 78  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06391   |        | XA104     | 79  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06392   |        | XA104     | 80  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06393   |        | XA105     | 01  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 01716   |        | XA105     | 02  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    | A01                |        |
| 06394   |        | XA105     | 03  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06395   |        | XA105     | 04  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06396   |        | XA105     | 05  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06397   |        | XA105     | 06  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06398   |        | XA105     | 07  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06399   |        | XA105     | 08  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06400   |        | XA105     | 09  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06401   |        | XA105     | 10  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06402   |        | XA105     | 11  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 00282   |        | XA105     | 12  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    | A01                |        |
| 06403   |        | XA105     | 13  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06404   |        | XA105     | 14  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06405   |        | XA105     | 15  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 01717   |        | XA105     | 16  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    | A01                |        |
| 06406   |        | XA105     | 17  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06407   |        | XA105     | 18  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06408   |        | XA105     | 19  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06409   |        | XA105     | 20  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06410   |        | XA105     | 21  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06411   |        | XA105     | 22  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06412   |        | XA105     | 23  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06413   |        | XA105     | 24  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06414   |        | XA105     | 25  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| 06415   |        | XA105     | 26  |       |        |           |     |             |      |       | SPP   | 01     |        |          |      |                          |       |                     |                    |                    |        |
| CONNECTOR (XA105) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |             |      |       |       |        |        |          |      |                          |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA105  
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| RECORD NUMBER                                       | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH # | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 06416   |        | XA105     | 27  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 00283   |        | XA105     | 28  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 06417   |        | XA105     | 29  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06418   |        | XA105     | 30  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06419   |        | XA105     | 31  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 01718   |        | XA105     | 32  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 06420   |        | XA105     | 33  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06421   |        | XA105     | 34  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06422   |        | XA105     | 35  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06423   |        | XA105     | 36  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06424   |        | XA105     | 37  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06425   |        | XA105     | 38  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06426   |        | XA105     | 39  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06427   |        | XA105     | 40  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06428   |        | XA105     | 41  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06429   |        | XA105     | 42  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06430   |        | XA105     | 43  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 01719   |        | XA105     | 44  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 06431   |        | XA105     | 45  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06432   |        | XA105     | 46  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06433   |        | XA105     | 47  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06434   |        | XA105     | 48  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06435   |        | XA105     | 49  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06436   |        | XA105     | 50  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06437   |        | XA105     | 51  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06438   |        | XA105     | 52  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06439   |        | XA105     | 53  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06440   |        | XA105     | 54  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06441   |        | XA105     | 55  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06442   |        | XA105     | 56  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06443   |        | XA105     | 57  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 01720   |        | XA105     | 58  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 06444   |        | XA105     | 59  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06445   |        | XA105     | 60  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06446   |        | XA105     | 61  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06447   |        | XA105     | 62  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06448   |        | XA105     | 63  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06449   |        | XA105     | 64  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06450   |        | XA105     | 65  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06451   |        | XA105     | 66  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 01721   |        | XA105     | 67  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 06452   |        | XA105     | 68  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06453   |        | XA105     | 69  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06454   |        | XA105     | 70  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06455   |        | XA105     | 71  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06456   |        | XA105     | 72  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06457   |        | XA105     | 73  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06458   |        | XA105     | 74  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06459   |        | XA105     | 75  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06460   |        | XA105     | 76  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| CONNECTOR ( XA105 ) CCNTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA105  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 10

| RECORD NUMBER                                   | FROM   |           |     |      | TO     |           |     |      | WIRE |             |      |       | SIGNAL  | SPQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|------|-------------|------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH 2 | PREFIX | CONNECTOR | PIN | SH 2 | U 2  | MULTI GROUP | CODE | COLOR |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 06461   | XA105  | 77        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06462   | XA105  | 78        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06463   | XA105  | 79        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06464   | XA105  | 80        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06465   | XA106  | 01        |     |      | XA203  | 57        |     |      |      |             | 16B  | 9     | JDD11A  | 01     |          |      | SHY    |                  |       |                     |                    | C03                |        |
| 01722   | XA106  | 02        |     |      |        |           |     |      |      |             |      |       | ZDD15G  | 02     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 21386   | XA106  | 02        |     |      |        |           |     |      |      |             |      |       | ZDD15K  | 02     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06466   | XA106  | 03        |     |      |        |           |     |      |      |             |      |       | JDD11A1 | 02     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06467   | XA106  | 04        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06468   | XA106  | 05        |     |      | XA203  | 59        |     |      |      |             | 16B  | 9     | JDD12A  | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06469   | XA106  | 06        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06470   | XA106  | 07        |     |      |        |           |     |      |      |             |      |       | JDD12A1 | 02     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06471   | XA106  | 08        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06472   | XA106  | 09        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06473   | XA106  | 10        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06474   | XA106  | 11        |     |      |        |           |     |      |      |             |      |       | DNW     | 01     |          |      | SHT    |                  |       |                     | KEYWAY             | C04                |        |
| 00284   | XA106  | 12        |     |      |        |           |     |      |      |             |      |       | DNW     | 01     |          |      | SHT    |                  |       |                     | KEYWAY             | C03                |        |
| 06475   | XA106  | 13        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06476   | XA106  | 14        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06477   | XA106  | 15        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 01723   | XA106  | 16        |     |      | XA410  | 44        |     |      |      | AZ          | 1ED  | 0     | +5VDCG  | 01     |          |      | SHT    |                  |       |                     |                    | C13                |        |
| 06478   | XA106  | 17        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06479   | XA106  | 18        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06480   | XA106  | 19        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06481   | XA106  | 20        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06482   | XA106  | 21        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06483   | XA106  | 22        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06484   | XA106  | 23        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06485   | XA106  | 24        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06486   | XA106  | 25        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06487   | XA106  | 26        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06488   | XA106  | 27        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 00285   | XA106  | 28        |     |      |        |           |     |      |      |             |      |       | +5V     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06489   | XA106  | 29        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06490   | XA106  | 30        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06491   | XA106  | 31        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 01724   | XA106  | 32        |     |      | XA403  | 64        |     |      |      | A4          | 1ED  | 0     | +5I0EG  | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 20848   | XA106  | 32        |     |      |        |           |     |      |      |             |      |       | +5I0DG  | 05     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06492   | XA106  | 33        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06493   | XA106  | 34        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06494   | XA106  | 35        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06495   | XA106  | 36        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06496   | XA106  | 37        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06497   | XA106  | 38        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06498   | XA106  | 39        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06499   | XA106  | 40        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06500   | XA106  | 41        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| 06501   | XA106  | 42        |     |      |        |           |     |      |      |             |      |       | SPP     | 01     |          |      | SHT    |                  |       |                     |                    | C03                |        |
| CONNECTOR XA106 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |      |             |      |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA106  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 11

| RECORD NUMBER                                     | FROM   |           |     |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL  | SEG NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |        | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|--------|-----------|-----|----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|-------------|--------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIK | IN | PREFIX | CONNECTOR | PIK | IN | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     | SPEC INST   | MISC   |                    |        |
| 06502   |        | XA106     | 43  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 01725   |        | XA106     | 44  |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06503   |        | XA106     | 45  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06504   |        | XA106     | 46  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06505   |        | XA106     | 47  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06506   |        | XA106     | 48  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06507   |        | XA106     | 49  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06508   |        | XA106     | 50  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06509   |        | XA106     | 51  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06510   |        | XA106     | 52  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06511   |        | XA106     | 53  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06512   |        | XA106     | 54  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06513   |        | XA106     | 55  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06514   |        | XA106     | 56  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06515   |        | XA106     | 57  |    | XA511  | 19        |     |    |             | 16B  | 9     |       | TMRRAD1 | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 01726   |        | XA106     | 58  |    | XA519  | 02        |     |    | BR          | 1ED  | 0     |       | +5VDCR  | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06516   |        | XA106     | 59  |    |        |           |     |    |             |      |       |       | TMRRAD4 | 03     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06517   |        | XA106     | 60  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06518   |        | XA106     | 61  |    | XA510  | 11        |     |    |             | 16B  | 9     |       | TMRUAD4 | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06519   |        | XA106     | 62  |    |        |           |     |    |             |      |       |       | TMTSBB  | 02     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06520   |        | XA106     | 63  |    |        |           |     |    |             |      |       |       | TMRUAA4 | 30     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06521   |        | XA106     | 64  |    | XA510  | 10        |     |    |             | 16B  | 9     |       | TMRUDD4 | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06522   |        | XA106     | 65  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06523   |        | XA106     | 66  |    |        |           |     |    |             |      |       |       | TMRUBA4 | 33     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 01727   |        | XA106     | 67  |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      | SHT    |                  |       |                     |             | KEYWAY | C04                |        |
| 06524   |        | XA106     | 68  |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      | SHT    |                  |       |                     |             | KEYWAY | C04                |        |
| 06525   |        | XA106     | 69  |    | XA318  | 56        |     |    |             | 16B  | 9     |       | TMRUCD4 | 00     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06526   |        | XA106     | 70  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06527   |        | XA106     | 71  |    | XA305  | 72        |     |    |             | 16B  | 9     |       | TMRUCA4 | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06528   |        | XA106     | 72  |    | XA318  | 62        |     |    |             | 16B  | 9     |       | TMRUDD4 | 00     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06529   |        | XA106     | 73  |    | XA318  | 72        |     |    |             | 16B  | 9     |       | JMTSAD4 | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06530   |        | XA106     | 74  |    | XA309  | 53        |     |    |             | 16B  | 9     |       | TMRUMB4 | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06531   |        | XA106     | 75  |    | XA121  | 76        |     |    |             | 16B  | 9     |       | JMTSAB4 | 00     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06532   |        | XA106     | 76  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06533   |        | XA106     | 77  |    |        |           |     |    |             |      |       |       | JMTSBD4 | 03     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06534   |        | XA106     | 78  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06535   |        | XA106     | 79  |    | XA511  | 07        |     |    |             | 16B  | 9     |       | JMTSBD1 | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 06536   |        | XA106     | 80  |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      | SHT    |                  |       |                     |             |        | C03                |        |
| 03486   |        | XA107     | 01  |    |        |           |     |    |             |      |       |       | G10702  | 04     |          |      | MTS    |                  |       |                     |             |        |                    |        |
| 03483   |        | XA107     | 02  |    | XA107  | 04        |     |    |             | 16B  | 9     |       | G10702  | 01     |          |      | MTS    |                  |       |                     |             |        |                    |        |
| 20878   |        | XA107     | 02  |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      | MTS    |                  |       |                     |             |        |                    |        |
| 21394   |        | XA107     | 02  |    | XA201  | 06        |     |    | 2A          | 1ED  | 0     |       | GND001  | 00     |          |      | MTS    |                  |       |                     |             |        | C10                |        |
| 03485   |        | XA107     | 03  |    | XA107  | 01        |     |    |             | 16B  | 9     |       | G10702  | 03     |          |      | MTS    |                  |       |                     |             |        |                    |        |
| 03484   |        | XA107     | 04  |    | XA107  | 03        |     |    |             | 16B  | 9     |       | G10702  | 02     |          |      | MTS    |                  |       |                     |             |        |                    |        |
| 20835   |        | XA107     | 05  |    |        |           |     |    |             |      |       |       | ZDDISA  | 02     |          |      | MTS    |                  |       |                     |             |        |                    |        |
| 20230   |        | XA107     | 06  |    |        |           |     |    |             |      |       |       | ZDDISA1 | 03     |          |      | MTS    |                  |       |                     |             |        |                    |        |
| 21325   |        | XA107     | 07  |    | XA410  | 49        |     |    | AZ          | 1ED  | 2     |       | +5VDCF  | 01     |          |      | MTS    |                  |       |                     |             |        | C13                |        |
| 20232   |        | XA107     | 08  |    | XA107  | 12        |     |    |             | 1BD  | 2     |       | +5VDCI  | 01     |          |      | MTS    |                  |       |                     |             |        | B05                |        |
| CONNECTOR (XA107) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |    |             |      |       |       |         |        |          |      |        |                  |       |                     |             |        |                    |        |

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 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 12

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |    | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|---------|----------|------|--------|------------------|-------|---------------------|-------------|----|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |      |        |                  |       |                     | AND         | OR |                    |        |
| 17390   |        | XA107     | 09  |        |           |     |             |      |       |       |        | WKLTSB  | 02       |      |        | MTS              |       |                     |             |    |                    |        |
| 17388   |        | XA107     | 10  |        |           |     |             |      |       |       |        | WKL TSA | 07       |      |        | MTS              |       |                     |             |    |                    |        |
| 14345   |        | XA107     | 11  |        |           |     |             |      |       |       |        | TMTCAA  | 02       |      |        | MTS              |       |                     |             |    |                    |        |
| 00276   |        | XA107     | 12  |        |           |     |             |      |       |       |        | +5RE1I  | 05       |      |        | MTS              |       |                     |             |    |                    |        |
| 20850   |        | XA107     | 12  |        |           |     |             |      |       |       |        | +5V     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 21340   |        | XA107     | 12  |        |           |     |             |      |       |       |        | +5VDCI  | 02       |      |        | MTS              |       |                     |             |    |                    | B05    |
| 06537   |        | XA107     | 13  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 06538   |        | XA107     | 14  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 21062   |        | XA107     | 15  | I      | XA107     | 16  | 1           | 16B  | 9     |       |        | G10716  | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 20235   |        | XA107     | 16  |        | XA201     | 78  |             | PG   | 1E0   | 0     |        | +5LAMR  | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 20879   |        | XA107     | 16  |        |           |     |             |      |       |       |        | GND     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 21063   |        | XA107     | 16  |        |           |     |             |      |       |       |        | G10716  | 02       |      |        | MTS              |       |                     |             |    |                    |        |
| 06539   |        | XA107     | 17  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 06540   |        | XA107     | 18  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 06541   |        | XA107     | 19  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 06542   |        | XA107     | 20  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 00274   |        | XA107     | 21  |        | XA107     | 22  |             | 16B  | 9     |       |        | +5RE1I  | 03       |      |        | MTS              |       |                     |             |    |                    |        |
| 00275   |        | XA107     | 22  |        | XA107     | 12  |             | 16B  | 9     |       |        | +5RE1I  | 04       |      |        | MTS              |       |                     |             |    |                    |        |
| 00273   |        | XA107     | 23  |        | XA107     | 21  |             | 16B  | 9     |       |        | +5RE1I  | 02       |      |        | MTS              |       |                     |             |    |                    |        |
| 00192   |        | XA107     | 24  |        |           |     |             |      |       |       |        | +05VCI  | 03       |      |        | MTS              |       |                     |             |    |                    |        |
| 00251   |        | XA107     | 25  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    | B06    |
| 00271   |        | XA107     | 26  |        | XA201     | 77  |             | PG   | 1E0   | 2     |        | +5LAMP  | 005      |      |        | MTS              |       |                     |             |    |                    |        |
| 00266   |        | XA107     | 27  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    | B05    |
| 00279   |        | XA107     | 28  |        | XA107     | 64  |             | 18D  | 2     |       |        | +5RE2I  | 02       |      |        | MTS              |       |                     |             |    |                    | B05    |
| 20851   |        | XA107     | 28  |        |           |     |             |      |       |       |        | +5V     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 00256   |        | XA107     | 29  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    | B05    |
| 00205   |        | XA107     | 30  |        | XA120     | 79  |             | 16B  | 9     |       |        | +05VIC  | 08       |      |        | MTS              |       |                     |             |    |                    |        |
| 00250   |        | XA107     | 31  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    | B06    |
| 20876   |        | XA107     | 32  |        |           |     |             |      |       |       |        | GND     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 21390   |        | XA107     | 32  |        |           |     |             |      |       |       |        | +510ETR | 02       |      |        | MTS              |       |                     |             |    |                    | C10    |
| 21065   |        | XA107     | 33  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 00228   |        | XA107     | 34  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    | B06    |
| 06543   |        | XA107     | 35  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 03721   |        | XA107     | 36  |        |           |     |             |      |       |       |        | +5100C  | 05       |      |        | MTS              |       |                     |             |    |                    | B05    |
| 21338   |        | XA107     | 36  |        | XA403     | 63  |             | A4   | 1E0   | 2     |        | +510ET  | 00C      |      |        | MTS              |       |                     |             |    |                    | B05    |
| 03724   |        | XA107     | 37  |        | XA108     | 12  |             | 18D  | 2     |       |        | +5VDCJ  | 01       |      |        | MTS              |       |                     |             |    |                    | B05    |
| 06544   |        | XA107     | 38  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 00009   |        | XA107     | 39  |        | XA120     | 33  |             | PC   | 1E0   | 2     |        | +05RES1 | 010      |      |        | MTS              |       |                     |             |    |                    | B04    |
| 04599   |        | XA107     | 40  |        | XA301     | 67  |             |      | 16B   | 9     |        | LOGC1B  | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 04602   |        | XA107     | 41  |        |           |     |             |      |       |       |        | LOGC2B  | 02       |      |        | MTS              |       |                     |             |    |                    |        |
| 04603   |        | XA107     | 42  |        | XA301     | 71  |             |      | 16B   | 9     |        | LOG10B  | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 00010   |        | XA107     | 43  |        | XA410     | 34  |             | PF   | 1E0   | 2     |        | +05RES  | 332      |      |        | MTS              |       |                     |             |    |                    | C13    |
| 00306   |        | XA107     | 44  |        | XA120     | 02  |             | PC   | 1E0   | 0     |        | +05REG  | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 20843   |        | XA107     | 44  |        | XA410     | 67  |             | PF   | 1E0   | 0     |        | +05REG  | 05       |      |        | MTS              |       |                     |             |    |                    |        |
| 21132   |        | XA107     | 44  |        |           |     |             |      |       |       |        | GND     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 20247   |        | XA107     | 45  |        | XA206     | 28  |             |      | 16B   | 9     |        | JSNV2B  | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 00272   |        | XA107     | 46  |        | XA107     | 23  |             |      | 16B   | 9     |        | +5RE1I  | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 06545   |        | XA107     | 47  |        |           |     |             |      |       |       |        | SPP     | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 20221   |        | XA107     | 48  |        | XA331     | 30  |             | LN   | 1E0   | 2     |        | ZDDDRB  | 01       |      |        | MTS              |       |                     |             |    |                    |        |
| 20228   |        | XA107     | 49  |        |           |     |             |      |       |       |        | ZDDDR1  | 02       |      |        | MTS              |       |                     |             |    |                    |        |
| CONNECTOR XA107 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |         |          |      |        |                  |       |                     |             |    |                    |        |



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 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 13

| RECORD NUMBER                                   | PREFIX | CONNECTOR | PIN | SHFT | PREFIX | CONNECTOR | PIN | Q | MULTI GROUP | CODE | COLOR | IDENT | SIGNAL  | SEQ NO | EQUATION | TERM | FACTS | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|---|-------------|------|-------|-------|---------|--------|----------|------|-------|------------------|-------|---------------------|--------------------|--------------------|--------|
| 20226   |        | XA107     | 50  |      |        | XA421     | 17  |   |             | 16B  | 9     |       | ZDDDR2  | 01     |          |      |       | MTS              |       |                     |                    |                    | B06    |
| 06546   |        | XA107     | 51  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 20833   |        | XA107     | 52  |      |        | XA331     | 32  |   | LN          | 1ED  | 0     |       | ZDDRR   | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 21066   |        | XA107     | 52  | 1    |        | XA107     | 58  | 1 |             | 16B  | 9     |       | G10758  | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 21327   |        | XA107     | 52  |      |        |           |     |   |             |      |       |       | ZDDDRG  | 02     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06547   |        | XA107     | 53  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06548   |        | XA107     | 54  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06549   |        | XA107     | 55  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06550   |        | XA107     | 56  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06551   |        | XA107     | 57  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 20240   |        | XA107     | 58  |      |        |           |     |   |             |      |       |       | G10758  | 02     |          |      |       | MTS              |       |                     |                    |                    |        |
| 20880   |        | XA107     | 58  |      |        |           |     |   |             |      |       |       | GND     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 21392   |        | XA107     | 58  |      |        | XA201     | 18  |   | 2C          | 1ED  | 0     |       | +5VDCFR | 01     |          |      |       | MTS              |       |                     |                    |                    | C10    |
| 06552   |        | XA107     | 59  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06553   |        | XA107     | 60  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 03725   |        | XA107     | 61  |      |        | XA201     | 17  |   | 2C          | 1ED  | 2     |       | +5VDCF  | 920    |          |      |       | MTS              |       |                     |                    |                    | C10    |
| 03728   |        | XA107     | 62  |      |        | XA108     | 28  |   |             | 1BD  | 2     |       | +5VDC   | 01     |          |      |       | MTS              |       |                     |                    |                    | B05    |
| 00005   |        | XA107     | 63  |      |        | XA337     | 67  |   | PD          | 1ED  | 0     |       | +05REG  | 03     |          |      |       | MTS              |       |                     |                    |                    |        |
| 21067   |        | XA107     | 63  |      |        | XA107     | 67  |   |             | 16B  | 9     |       | G10767  | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 00278   |        | XA107     | 64  |      |        |           |     |   |             |      |       |       | +5RE2I  | 03     |          |      |       | MTS              |       |                     |                    |                    | B05    |
| 00011   |        | XA107     | 65  |      |        |           |     |   |             |      |       |       | +05RES1 | 330    |          |      |       | MTS              |       |                     |                    |                    | B04    |
| 00277   |        | XA107     | 66  |      |        | XA107     | 28  |   |             | 1BD  | 2     |       | +5RE2I  | 01     |          |      |       | MTS              |       |                     |                    |                    | B05    |
| 00004   |        | XA107     | 67  |      |        | XA430     | 44  |   | PE          | 1ED  | 0     |       | +05REG  | 07     |          |      |       | MTS              |       |                     |                    |                    | C13    |
| 20881   |        | XA107     | 67  |      |        |           |     |   |             |      |       |       | GND     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 21068   |        | XA107     | 67  |      |        |           |     |   |             |      |       |       | G10767  | 02     |          |      |       | MTS              |       |                     |                    |                    |        |
| 00012   |        | XA107     | 68  |      |        |           |     |   |             |      |       |       | +05RES  | 920    |          |      |       | MTS              |       |                     |                    |                    |        |
| 06554   |        | XA107     | 69  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06555   |        | XA107     | 70  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06556   |        | XA107     | 71  |      |        | XA107     | 48  |   |             | 16B  | 9     |       | ZDDDRB  | 00     |          |      |       | MTS              |       |                     |                    |                    | B06    |
| 06557   |        | XA107     | 72  |      |        | XA318     | 71  |   |             | 16B  | 9     |       | ZDDDR1  | 01     |          |      |       | MTS              |       |                     |                    |                    | B06    |
| 06558   |        | XA107     | 73  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06559   |        | XA107     | 74  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06560   |        | XA107     | 75  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06561   |        | XA107     | 76  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06562   |        | XA107     | 77  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06563   |        | XA107     | 78  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06564   |        | XA107     | 79  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 06565   |        | XA107     | 80  |      |        |           |     |   |             |      |       |       | SPP     | 01     |          |      |       | MTS              |       |                     |                    |                    |        |
| 09146   |        | XA108     | 01  |      |        | XA115     | 55  |   |             | 16B  | 9     |       | TBR5U0  | 03     | TER1AA   | 01   | 1     | TT3              | A2    |                     | 02B                |                    |        |
| 01728   |        | XA108     | 02  |      |        |           |     |   |             |      |       |       | GND     | 01     |          |      |       | TT3              |       |                     |                    | 01B                |        |
| 10034   |        | XA108     | 03  |      |        | XA444     | 11  |   |             | 16B  | 9     |       | TCOMP0  | 01     | TER1AA   | 01   | 2     | TT3              | A2    |                     | 02A                |                    |        |
| 10974   |        | XA108     | 04  |      |        |           |     |   |             |      |       |       | TDL15A  | 02     | TDL15A   | 00   | 1     | TT3              | A1    |                     | 04A                | DIGNOSTIC FAIL I   |        |
| 15790   |        | XA108     | 05  |      |        |           |     |   |             |      |       |       | TS01BQ  | 06     | TER1AA   | 01   | 3     | TT3              | A2    |                     | 03B                |                    |        |
| 15987   |        | XA108     | 06  |      |        | XA248     | 52  |   |             | 16B  | 9     |       | TS09BQ  | 01     | TDL15A   | 01   | 1     | TT3              | A1    |                     | 05A                |                    |        |
| 12559   |        | XA108     | 07  |      |        | XA146     | 37  |   |             | 16B  | 9     |       | TER1AA  | 02     | TER1AA   | 00   | 1     | TT3              | A2    |                     | 03A                | TE0031 RESET SI    |        |
| 09214   |        | XA108     | 08  |      |        | XA116     | 17  |   |             | 16B  | 9     |       | TBST20  | 02     | TDL15A   | 01   | 2     | TT3              | A1    |                     | 06A                |                    |        |
| 13600   |        | XA108     | 09  |      |        | XA206     | 39  |   |             | 16B  | 9     |       | TI213A  | 01     | TI3210   | 01   | 1     | TT3              | A3    |                     | 04B                |                    |        |
| 09764   |        | XA108     | 10  |      |        |           |     |   |             |      |       |       | TCMP4A  | 04     | TDL15A   | 01   | 3     | TT3              | A1    |                     | 07A                |                    |        |
| CONNECTOR XA108 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |   |             |      |       |       |         |        |          |      |       |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA108  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 14

| RECORD NUMBER | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SFC INST. MISC. | SIGNAL | SFC NO. | EQUATION | TERM. | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |                  | SIGNAL DESCRIPTION | ECO NO. |
|---------------|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|-----------------|--------|---------|----------|-------|--------|------------------|-------|---------------------|-------------|------------------|--------------------|---------|
|               | PREFIX | CONNECTOR | PIN | SH FE | PREFIX | CONNECTOR | PIN | SH FE | MULTI GROUP | CODE | COLOR | IDENT |                 |        |         |          |       |        |                  |       |                     | AND         | OR               |                    |         |
| 08829         |        | XA108     | 11  |       | XA147  | 23        |     |       |             | 16B  | 9     |       | TBD14A          | 01     | TI3210  | 01       | 2     | TT3    | A3               |       | 05B                 |             |                  |                    |         |
| 00286         |        | XA108     | 12  |       |        |           |     |       |             |      |       |       | +5V             | 01     |         |          |       | TT3    |                  |       |                     |             |                  | 805                |         |
| 21341         |        | XA108     | 12  |       |        |           |     |       |             |      |       |       | +5VDCJ          | 02     |         |          |       | TT3    |                  |       |                     |             |                  |                    |         |
| 14187         |        | XA108     | 13  |       | XA113  | 04        |     |       |             | 16B  | 9     |       | TMRUAA4         | 02     | TI3210  | 01       | 3     | TT3    | A3               |       | 06B                 |             |                  |                    |         |
| 13569         |        | XA108     | 14  |       | XA108  | 22        |     |       |             | 16B  | 9     |       | TI20BP          | 03     | YES2AA  | 01       | 1     | TT3    | B2               |       | 03A                 |             |                  |                    |         |
| 13667         |        | XA108     | 15  |       | XA304  | 79        |     |       |             | 16B  | 9     |       | TI3210          | 01     | TI3210  | 00       | 1     | TT3    | A3               |       | 07B                 |             | TE0031 RESET S1. |                    |         |
| 01729         |        | XA108     | 16  |       |        |           |     |       |             |      |       |       | GND             | 01     |         |          |       | TT3    |                  |       | 21B                 |             |                  |                    |         |
| 15676         |        | XA108     | 17  |       | XA112  | 53        |     |       |             | 16B  | 9     |       | TSTBRQ          | 01     | YES2AA  | 01       | 2     | TT3    | B2               |       | 08B                 |             |                  |                    |         |
| 13692         |        | XA108     | 18  |       | XA115  | 04        |     |       |             | 16B  | 9     |       | TKAABB          | 13     | TES2AA  | 01       | 3     | TT3    | B2               |       | 10A                 |             |                  |                    |         |
| 12574         |        | XA108     | 19  |       |        |           |     |       |             |      |       |       | TES2AA          | 03     | TES2AA  | 00       | 1     | TT3    | B2               |       | 09B                 |             | I2*.STOP BURST.C |                    |         |
| 12570         |        | XA108     | 20  |       | XA112  | 20        |     |       |             | 16B  | 9     |       | TES12A          | 01     | TES12A  | 00       | 1     | TT3    | B1               |       | 11A                 |             | I2*.EOB.CLK- PRE |                    |         |
| 16193         |        | XA108     | 21  |       | XA116  | 48        |     |       |             | 16B  | 9     |       | TSL6BQ          | 08     | TES32A  | 01       | 1     | TT3    | B3               |       | 10B                 |             |                  |                    |         |
| 13570         |        | XA108     | 22  |       | XA108  | 33        |     |       |             | 16B  | 9     |       | TI20BP          | 04     | TES12A  | 01       | 1     | TT3    | B1               |       | 12A                 |             |                  |                    |         |
| 11894         |        | XA108     | 23  |       | XA126  | 34        |     |       |             | 16B  | 9     |       | TD17BQ          | 01     | YES32A  | 01       | 2     | TT3    | B3               |       | 11B                 |             |                  |                    |         |
| 12599         |        | XA108     | 24  |       | XA208  | 43        |     |       |             | 16B  | 9     |       | TEOBAQ          | 02     | TES12A  | 01       | 2     | TT3    | B1               |       | 13A                 |             |                  |                    |         |
| 09689         |        | XA108     | 25  |       | XA115  | 05        |     |       |             | 16B  | 9     |       | TC0170          | 01     | TES32A  | 01       | 3     | TT3    | B3               |       | 12B                 |             |                  |                    |         |
| 13691         |        | XA108     | 26  |       | XA108  | 18        |     |       |             | 16B  | 9     |       | TKAABB          | 12     | TES12A  | 01       | 3     | TT3    | B1               |       | 14A                 |             |                  |                    |         |
| 12582         |        | XA108     | 27  |       | XA112  | 17        |     |       |             | 16B  | 9     |       | TES32A          | 01     | TES32A  | 00       | 1     | TT3    | B3               |       | 13B                 |             | S16.COMPUTER END |                    |         |
| 00287         |        | XA108     | 28  |       |        |           |     |       |             |      |       |       | +5V             | 01     |         |          |       | TT3    |                  |       |                     |             |                  |                    |         |
| 21342         |        | XA108     | 28  |       |        |           |     |       |             |      |       |       | +5VDCK          | 02     |         |          |       | TT3    |                  |       |                     |             |                  | 805                |         |
| 04868         |        | XA108     | 29  |       | XA108  | 40        |     |       |             | 16B  | 9     |       | SPT001          | 05     | TDS210  | 01       | 1     | TT3    | C2               |       | 14B                 |             |                  |                    |         |
| 12046         |        | XA108     | 30  |       |        |           |     |       |             |      |       |       | TD21SA          | 02     | TDS210  | 01       | 2     | TT3    | C2               |       | 15A                 |             |                  |                    |         |
| 11234         |        | XA108     | 31  |       | XA220  | 61        |     |       |             | 16B  | 9     |       | TDS210          | 01     | TDS210  | 00       | 1     | TT3    | C2               |       | 15B                 |             | PRESET INPUT TD  |                    |         |
| 01730         |        | XA108     | 32  |       |        |           |     |       |             |      |       |       | GND             | 01     |         |          |       | TT3    |                  |       | 27A                 |             |                  |                    |         |
| 13571         |        | XA108     | 33  |       | XA205  | 35        |     |       |             | 16B  | 9     |       | TI20BP          | 05     | TI2AZA  | 01       | 1     | TT3    | C3               |       | 16B                 |             |                  |                    |         |
| 15178         |        | XA108     | 34  |       |        |           |     |       |             |      |       |       | TQ210A          | 02     | TDS210  | 01       | 3     | TT3    | C2               |       | 16A                 |             |                  |                    |         |
| 13631         |        | XA108     | 35  |       | XA114  | 25        |     |       |             | 16B  | 9     |       | TI30BP          | 03     | TI2AZA  | 01       | 2     | TT3    | C3               |       | 17B                 |             |                  |                    |         |
| 11230         |        | XA108     | 36  |       | XA220  | 64        |     |       |             | 16B  | 9     |       | TDS200          | 01     | TDS200  | 00       | 1     | TT3    | C1               |       | 17A                 |             | PRESET INPUT TD  |                    |         |
| 13520         |        | XA108     | 37  |       | XA113  | 33        |     |       |             | 16B  | 9     |       | TI10BP          | 01     | TI2AZA  | 01       | 3     | TT3    | C3               |       | 18B                 |             |                  |                    |         |
| 12010         |        | XA108     | 38  |       |        |           |     |       |             |      |       |       | TD20SA          | 02     | TDS200  | 01       | 1     | TT3    | C1               |       | 18A                 |             |                  |                    |         |
| 13269         |        | XA108     | 39  |       |        |           |     |       |             |      |       |       | TI2AZA          | 03     | TI2AZA  | 00       | 1     | TT3    | C3               |       | 19B                 |             | STATE IO I1*.I2  |                    |         |
| 04869         |        | XA108     | 40  |       | XA114  | 37        |     |       |             | 16B  | 9     |       | SPI001          | 06     | TDS200  | 01       | 2     | TT3    | C1               |       | 19A                 |             |                  |                    |         |
| 08427         |        | XA108     | 41  |       |        |           |     |       |             |      |       |       | TAVERO          | 02     | TAVERA  | 01       | 1     | TT3    | D2               |       | 22B                 |             |                  |                    |         |
| 15175         |        | XA108     | 42  |       | XA133  | 15        |     |       |             | 16B  | 9     |       | TQ200A          | 01     | TDS200  | 01       | 3     | TT3    | C1               |       | 20A                 |             |                  |                    |         |
| 08425         |        | XA108     | 43  |       |        |           |     |       |             |      |       |       | TAVERA          | 04     | TAVERA  | 00       | 1     | TT3    | D2               |       | 23B                 |             |                  |                    |         |
| 01731         |        | XA108     | 44  |       |        |           |     |       |             |      |       |       | GND             | 01     |         |          |       | TT3    |                  |       | 40A                 |             |                  |                    |         |
| 04196         |        | XA108     | 45  |       |        |           |     |       |             |      |       |       | KMR12R          | 04     | KMEPRO  | 01       | 1     | TT3    | D3               |       | 24B                 |             |                  |                    |         |
| 09196         |        | XA108     | 46  |       | XA207  | 52        |     |       |             | 16B  | 9     |       | TBST2A          | 09     | TAVERA  | 01       | 2     | TT3    | D2               |       | 21A                 |             |                  |                    |         |
| 04186         |        | XA108     | 47  |       | XA216  | 66        |     |       |             | 16B  | 9     |       | KMR11R          | 01     | KMEPRO  | 01       | 2     | TT3    | D3               |       | 25B                 |             |                  |                    |         |
| 13328         |        | XA108     | 48  |       | XA150  | 61        |     |       |             | 16B  | 9     |       | TINDBP          | 01     | TAVERA  | 01       | 3     | TT3    | D2               |       | 22A                 |             |                  |                    |         |
| 04867         |        | XA108     | 49  |       | XA108  | 29        |     |       |             | 16B  | 9     |       | SPI001          | 04     | KMEPRO  | 01       | 3     | TT3    | D3               |       | 26B                 |             |                  |                    |         |
| 17267         |        | XA108     | 50  |       |        |           |     |       |             |      |       |       | T3100A          | 04     | T3100A  | 00       | 1     | TT3    | D1               |       | 23A                 |             | 0-15 EVEN 16-31  |                    |         |
| 04104         |        | XA108     | 51  |       |        |           |     |       |             |      |       |       | KMEPRO          | 02     | KMEPRO  | 00       | 1     | TT3    | D3               |       | 27B                 |             | MEMORY PARITY ER |                    |         |
| 17167         |        | XA108     | 52  |       | XA110  | 80        |     |       |             | 16B  | 9     |       | T1500A          | 02     | T3100A  | 01       | 1     | TT3    | D1               |       | 24A                 |             |                  |                    |         |
| 17184         |        | XA108     | 53  |       | XA109  | 65        |     |       |             | 16B  | 9     |       | T1623A          | 01     | T3116A  | 01       | 1     | TT3    | E2               |       | 28B                 |             |                  |                    |         |
| 17076         |        | XA108     | 54  |       | XA110  | 74        |     |       |             | 16B  | 9     |       | T0015A          | 02     | T3100A  | 01       | 2     | TT3    | D1               |       | 25A                 |             |                  |                    |         |
| 17270         |        | XA108     | 55  |       |        |           |     |       |             |      |       |       | T3116A          | 03     | T3116A  | 00       | 1     | TT3    | E2               |       | 29B                 |             | 16-23 EVEN 24-31 |                    |         |
| 17302         |        | XA108     | 56  |       | XA109  | 60        |     |       |             | 16B  | 9     |       | T631P0          | 01     | T3100A  | 01       | 3     | TT3    | D1               |       | 26A                 |             |                  |                    |         |
| 17258         |        | XA108     | 57  |       | XA111  | 41        |     |       |             | 16B  | 9     |       | T2928A          | 01     | T3128A  | 01       | 1     | TT3    | E3               |       | 30B                 |             |                  |                    |         |
| 01732         |        | XA108     | 58  |       |        |           |     |       |             |      |       |       | GND             | 01     |         |          |       | TT3    |                  |       | 40B                 |             |                  |                    |         |

CONNECTOR (XA108) CONTINUED ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA108  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 15

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO            |  |  |  |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|-------------|------|-------|-------|--------|---------|----------|--------|------|------------------|-------|---------------------|--------------------|--------------------|-------------------|--|--|--|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |        |      |                  |       |                     |                    |                    |                   |  |  |  |
| 17252         |        | XA108     | 59                              |        | XA111     | 43  |             |      | 16B   | 9     |        | T2829A  | 01       | T3128A | 01   | 2                | TT3   | E3                  |                    | 31B                |                   |  |  |  |
| 17222         |        | XA108     | 60                              |        | XA109     | 74  |             |      | 16B   | 9     |        | T2316A  | 01       | T3116A | 01   | 2                | TT3   | E2                  |                    | 28A                |                   |  |  |  |
| 17110         |        | XA108     | 61                              |        | XA111     | 51  |             |      | 16B   | 9     |        | T031P0  | 01       | T3128A | 01   | 3                | TT3   | E3                  |                    | 32B                |                   |  |  |  |
| 17290         |        | XA108     | 62                              |        | XA109     | 80  |             |      | 16B   | 9     |        | T431P0  | 01       | T3116A | 01   | 3                | TT3   | E2                  |                    | 29A                |                   |  |  |  |
| 17274         |        | XA108     | 63                              |        | XA111     | 78  |             |      | 16B   | 9     |        | T3128A  | 01       | T3128A | 00   | 1                | TT3   | E3                  |                    | 33B                | 28.29 ODD 30-31   |  |  |  |
| 17189         |        | XA108     | 64                              |        |           |     |             |      |       |       |        | T1631A  | 03       | T1631A | 00   | 1                | TT3   | E1                  |                    | 30A                | 16-23 ODD 24-31   |  |  |  |
| 04330         |        | XA108     | 65                              |        |           |     |             |      |       |       |        | KSMALA  | 02       | KMR01S | 01   | 1                | TT3   | F2                  |                    | 34B                |                   |  |  |  |
| 17237         |        | XA108     | 66                              |        | XA109     | 78  |             |      | 16B   | 9     |        | T2431A  | 01       | T1631A | 01   | 1                | TT3   | E1                  |                    | 31A                |                   |  |  |  |
| 01733         |        | XA108     | 67                              |        |           |     |             |      |       |       |        | GND     | 01       |        |      |                  | TT3   |                     |                    |                    |                   |  |  |  |
| 17271         |        | XA108     | 68                              |        | XA109     | 76  |             |      | 16B   | 9     |        | T3124A  | 01       | T1631A | 01   | 2                | TT3   | E1                  |                    | 32A                |                   |  |  |  |
| 04131         |        | XA108     | 69                              |        |           |     |             |      |       |       |        | KMR02R  | 02       | KMR02S | 01   | 1                | TT3   | F3                  |                    | 35A                |                   |  |  |  |
| 17298         |        | XA108     | 70                              |        | XA109     | 69  |             |      | 16B   | 9     |        | T623P0  | 01       | T1631A | 01   | 3                | TT3   | E1                  |                    | 33A                |                   |  |  |  |
| 04452         |        | XA108     | 71                              |        |           |     |             |      |       |       |        | K0101A  | 02       | KMR01S | 01   | 2                | TT3   | F2                  |                    | 36A                |                   |  |  |  |
| 04125         |        | XA108     | 72                              |        |           |     |             |      |       |       |        | KMR01R  | 02       | KMR01S | 01   | 3                | TT3   | F2                  |                    | 34A                |                   |  |  |  |
| 04121         |        | XA108     | 73                              |        | XA209     | 10  |             |      | 16B   | 9     |        | KMR00S  | 01       | KMR00S | 00   | 1                | TT3   | F1                  |                    | 36B                | MONITOR REG BIT   |  |  |  |
| 04128         |        | XA108     | 74                              |        | XA209     | 03  |             |      | 16B   | 9     |        | KMR01S  | 03       | KMR01S | 00   | 1                | TT3   | F2                  |                    | 35B                | MONITOR REG BIT   |  |  |  |
| 04864         |        | XA108     | 75                              |        | XA109     | 53  |             |      | 16B   | 9     |        | SP1001  | 01       | KMR00S | 01   | 1                | TT3   | F1                  |                    | 37B                |                   |  |  |  |
| 03529         |        | XA108     | 76                              |        | XA337     | 53  |             |      | 16B   | 9     |        | JCPUEB4 | 01       | KMR02S | 01   | 2                | TT3   | F3                  |                    | 37A                |                   |  |  |  |
| 04449         |        | XA108     | 77                              |        | XA212     | 06  |             |      | 16B   | 9     |        | K0100A  | 01       | KMR00S | 01   | 2                | TT3   | F1                  |                    | 38B                |                   |  |  |  |
| 04453         |        | XA108     | 78                              |        | XA212     | 22  |             |      | 16B   | 9     |        | K0102A  | 01       | KMR02S | 01   | 3                | TT3   | F3                  |                    | 38A                |                   |  |  |  |
| 04120         |        | XA108     | 79                              |        |           |     |             |      |       |       |        | KMR00R  | 02       | KMR00S | 01   | 3                | TT3   | F1                  |                    | 39B                |                   |  |  |  |
| 04134         |        | XA108     | 80                              |        | XA209     | 11  |             |      | 16B   | 9     |        | KMR02S  | 03       | KMR02S | 00   | 1                | TT3   | F3                  |                    | 39A                | MONITOR REG BIT   |  |  |  |
| 12026         |        | XA109     | 01                              |        | XA222     | 66  |             |      | 16B   | 9     |        | TD207A  | 01       | TD207A | 00   | 1                | TQ2   | A2                  |                    | 02B                | DEV ADD TO TD FO  |  |  |  |
| 01734         |        | XA109     | 02                              |        |           |     |             |      |       |       |        | GND     | 01       |        |      |                  | TQ2   |                     |                    | 01A                |                   |  |  |  |
| 13867         |        | XA109     | 03                              |        | XA109     | 05  |             |      | 16B   | 9     |        | TKTSA0  | 04       | TD217A | 01   | 1                | TQ2   | A3                  |                    | 02A                |                   |  |  |  |
| 08539         |        | XA109     | 04                              |        | XA207     | 10  |             |      | 16B   | 9     |        | TA00BQ  | 01       | TD207A | 01   | 1                | TQ2   | A2                  |                    | 04A                |                   |  |  |  |
| 13868         |        | XA109     | 05                              |        | XA109     | 11  |             |      | 16B   | 9     |        | TKTSA0  | 05       | TD207A | 01   | 2                | TQ2   | A2                  |                    | 03B                |                   |  |  |  |
| 11362         |        | XA109     | 06                              |        | XA227     | 07  |             |      | 16B   | 9     |        | TD015A  | 01       | TD015A | 00   | 1                | TQ2   | A1                  |                    | 05A                | SET INPUT FOR MEM |  |  |  |
| 08568         |        | XA109     | 07                              |        |           |     |             |      |       |       |        | TA01BQ  | 07       | TD217A | 01   | 2                | TQ2   | A3                  |                    | 03A                |                   |  |  |  |
| 11365         |        | XA109     | 08                              |        |           |     |             |      |       |       |        | TD0150  | 02       | TD015A | 01   | 1                | TQ2   | A1                  |                    | 06A                |                   |  |  |  |
| 12062         |        | XA109     | 09                              |        | XA221     | 52  |             |      | 16B   | 9     |        | TD217A  | 01       | TD217A | 00   | 1                | TQ2   | A3                  |                    | 04B                | DEV ADD TO TD FO  |  |  |  |
| 14478         |        | XA109     | 10                              |        |           |     |             |      |       |       |        | TM01C0  | 11       | TD015A | 01   | 2                | TQ2   | A1                  |                    | 07A                |                   |  |  |  |
| 13869         |        | XA109     | 11                              |        | XA109     | 17  |             |      | 16B   | 9     |        | TKTSA0  | 06       | TD227A | 01   | 1                | TQ2   | A4                  |                    | 05B                |                   |  |  |  |
| 00288         |        | XA109     | 12                              |        |           |     |             |      |       |       |        | +5V     | 01       |        |      |                  | TQ2   |                     |                    |                    |                   |  |  |  |
| 08593         |        | XA109     | 13                              |        |           |     |             |      |       |       |        | TA02BQ  | 07       | TD227A | 01   | 2                | TQ2   | A4                  |                    | 06B                |                   |  |  |  |
| 12168         |        | XA109     | 14                              |        | XA216     | 10  |             |      | 16B   | 9     |        | TD247A  | 01       | TD247A | 00   | 1                | TQ2   | B2                  |                    | 09A                | KEYWORD/TER WORD  |  |  |  |
| 12098         |        | XA109     | 15                              |        | XA222     | 77  |             |      | 16B   | 9     |        | TD227A  | 01       | TD227A | 00   | 1                | TQ2   | A4                  |                    | 07B                |                   |  |  |  |
| 01735         |        | XA109     | 16                              |        |           |     |             |      |       |       |        | GND     | 01       |        |      |                  | TQ2   |                     |                    | 01B                |                   |  |  |  |
| 13870         |        | XA109     | 17                              |        | XA109     | 20  |             |      | 16B   | 9     |        | TKTSA0  | 07       | TD297A | 01   | 1                | TQ2   | B3                  |                    | 08B                |                   |  |  |  |
| 08636         |        | XA109     | 18                              |        | XA207     | 24  |             |      | 16B   | 9     |        | TA04BQ  | 01       | TD247A | 01   | 1                | TQ2   | B2                  |                    | 10A                |                   |  |  |  |
| 08682         |        | XA109     | 19                              |        | XA207     | 17  |             |      | 16B   | 9     |        | TA06BQ  | 01       | TD297A | 01   | 2                | TQ2   | B3                  |                    | 09B                |                   |  |  |  |
| 13871         |        | XA109     | 20                              |        | XA109     | 26  |             |      | 16B   | 9     |        | TKTSA0  | 08       | TD247A | 01   | 2                | TQ2   | B2                  |                    | 11A                |                   |  |  |  |
| 12351         |        | XA109     | 21                              |        | XA215     | 38  |             |      | 16B   | 9     |        | TD297A  | 01       | TD297A | 00   | 1                | TQ2   | B3                  |                    | 10B                | ER WORD SEL SET   |  |  |  |
| 12133         |        | XA109     | 22                              |        | XA221     | 66  |             |      | 16B   | 9     |        | TD237A  | 01       | TD237A | 00   | 1                | TQ2   | B1                  |                    | 12A                | DEV ADD TO TD FO  |  |  |  |
| 10759         |        | XA109     | 23                              |        |           |     |             |      |       |       |        | TD10A0  | 04       | TED0AA | 01   | 1                | TQ2   | B4                  |                    | 11B                |                   |  |  |  |
| 08612         |        | XA109     | 24                              |        | XA207     | 11  |             |      | 16B   | 9     |        | TA03BQ  | 01       | TD237A | 01   | 1                | TQ2   | B1                  |                    | 13A                |                   |  |  |  |
| 13540         |        | XA109     | 25                              |        | XA109     | 29  |             |      | 16B   | 9     |        | T110C0  | 04       | TED0AA | 01   | 2                | TQ2   | B4                  |                    | 12B                |                   |  |  |  |
| 13872         |        | XA109     | 26                              |        | XA134     | 62  |             |      | 16B   | 9     |        | TKTSA0  | 09       | TD237A | 01   | 2                | TQ2   | B1                  |                    | 14A                |                   |  |  |  |
| CONNECTOR     |        | XA109     | CONTINUED ON THE NEXT PAGE **** |        |           |     |             |      |       |       |        |         |          |        |      |                  |       |                     |                    |                    |                   |  |  |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA109  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 16

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH FT | PREFIX | CONNECTOR | PIN | SH FT | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 12479   |        | XA109     | 27  |       | XA247  | 08        |     |       | 16B         | 9    |       |       | TED0AA | 01     | TED0AA   | 00   | 1      | TQ2              | B4    |                     | 13B                | DATA BIT 0.11      |        |
| 00289   |        | XA109     | 28  |       |        |           |     |       |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 13541   |        | XA109     | 29  |       | XA109  | 35        |     |       | 16B         | 9    |       |       | TI10C0 | 05     | TED3AA   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 12483   |        | XA109     | 30  |       |        |           |     |       |             |      |       |       | SPO    | 01     |          |      |        | TQ2              | C2    |                     | 15A                | DATA BIT 2.11      | G01    |
| 10840   |        | XA109     | 31  |       |        |           |     |       |             |      |       |       | TDI3A0 | 04     | TED3AA   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 01736   |        | XA109     | 32  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 12486   |        | XA109     | 33  |       |        |           |     |       |             |      |       |       | TED3AA | 02     | TED3AA   | 00   | 1      | TQ2              | C3    |                     | 16B                | DATA BIT 3.11      |        |
| 10813   |        | XA109     | 34  |       |        |           |     |       |             |      |       |       | SPI002 | 32     |          |      |        | TQ2              | C2    |                     | 16A                |                    | G01    |
| 13542   |        | XA109     | 35  |       | XA109  | 42        |     |       | 16B         | 9    |       |       | TI10C0 | 06     | TED4AA   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    | G01    |
| 13543   |        | XA109     | 36  |       | XA114  | 50        |     |       | 16B         | 9    |       |       | SPI006 | 00     |          |      |        | TQ2              | C2    |                     | 17A                |                    | G01    |
| 10867   |        | XA109     | 37  |       |        |           |     |       |             |      |       |       | TDI4A0 | 04     | TED4AA   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 12482   |        | XA109     | 38  |       |        |           |     |       |             |      |       |       | TED1AA | 02     | TED1AA   | 09   | 1      | TQ2              | C1    |                     | 18A                | DATA BIT 1.11      |        |
| 12487   |        | XA109     | 39  |       | XA246  | 40        |     |       | 16B         | 9    |       |       | TED4AA | 01     | TED4AA   | 00   | 1      | TQ2              | C4    |                     | 19B                | DATA BIT 4.11      |        |
| 10786   |        | XA109     | 40  |       |        |           |     |       |             |      |       |       | TDI1A0 | 04     | TED1AA   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 12408   |        | XA109     | 41  |       |        |           |     |       |             |      |       |       | TD31SA | 02     | TDS310   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 13544   |        | XA109     | 42  |       | XA112  | 46        |     |       | 16B         | 9    |       |       | TI10C0 | 08     | TED1AA   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 15198   |        | XA109     | 43  |       |        |           |     |       |             |      |       |       | TQ310A | 02     | TDS310   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 01737   |        | XA109     | 44  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 11274   |        | XA109     | 45  |       | XA220  | 41        |     |       | 16B         | 9    |       |       | TDS310 | 01     | TDS310   | 00   | 1      | TQ2              | D3    |                     | 24B                | PRESET INPUT TD    |        |
| 07820   |        | XA109     | 46  |       |        |           |     |       |             |      |       |       | SPO    | 01     |          |      |        | TQ2              | D2    |                     | 21A                |                    |        |
| 13539   |        | XA109     | 47  |       | XA109  | 25        |     |       | 16B         | 9    |       |       | TI10C0 | 03     | TED5AA   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 04909   |        | XA109     | 48  |       | XA113  | 41        |     |       | 16B         | 9    |       |       | SPI002 | 11     |          |      |        | TQ2              | D2    |                     | 22A                |                    |        |
| 10894   |        | XA109     | 49  |       |        |           |     |       |             |      |       |       | TDI5A0 | 04     | TED5AA   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 04866   |        | XA109     | 50  |       | XA108  | 49        |     |       | 16B         | 9    |       |       | SPI001 | 03     |          |      |        | TQ2              | D2    |                     | 23A                |                    |        |
| 12490   |        | XA109     | 51  |       |        |           |     |       |             |      |       |       | TED5AA | 02     | TED5AA   | 00   | 1      | TQ2              | D4    |                     | 27B                | DATA BIT 5.11      |        |
| 11270   |        | XA109     | 52  |       | XA220  | 50        |     |       | 16B         | 9    |       |       | TDS300 | 01     | TDS300   | 00   | 1      | TQ2              | D1    |                     | 24A                | PRESET INPUT TD    |        |
| 04865   |        | XA109     | 53  |       | XA109  | 50        |     |       | 16B         | 9    |       |       | SPI001 | 02     | YI1310   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 12372   |        | XA109     | 54  |       |        |           |     |       |             |      |       |       | TD30SA | 02     | TDS300   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 13563   |        | XA109     | 55  |       | XA112  | 52        |     |       | 16B         | 9    |       |       | YI131A | 01     | YI1310   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 15195   |        | XA109     | 56  |       | XA133  | 46        |     |       | 16B         | 9    |       |       | TQ300A | 01     | TDS300   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 13566   |        | XA109     | 57  |       |        |           |     |       |             |      |       |       | YI1310 | 02     | YI1310   | 00   | 1      | TQ2              | E3    |                     | 30B                | (I1+I2).COUNT=0    |        |
| 01738   |        | XA109     | 58  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 13538   |        | XA109     | 59  |       | XA109  | 47        |     |       | 16B         | 9    |       |       | TI10C0 | 02     | TED6AA   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 17303   |        | XA109     | 60  |       |        |           |     |       |             |      |       |       | T631P0 | 02     | T631P0   | 00   | 1      | TQ2              | E2    |                     | 28A                | ODD PARITY 16-31   |        |
| 10921   |        | XA109     | 61  |       |        |           |     |       |             |      |       |       | TDI6A0 | 04     | TED6AA   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 17269   |        | XA109     | 62  |       | XA108  | 55        |     |       | 16B         | 9    |       |       | T3116A | 02     | T631P0   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 12491   |        | XA109     | 63  |       | XA246  | 54        |     |       | 16B         | 9    |       |       | TED6AA | 01     | TED6AA   | 00   | 1      | TQ2              | E4    |                     | 33B                | DATA BIT 6.11      |        |
| 17188   |        | XA109     | 64  |       | XA108  | 64        |     |       | 16B         | 9    |       |       | T1631A | 02     | T631P0   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 17185   |        | XA109     | 65  |       | XA209  | 31        |     |       | 16B         | 9    |       |       | T1623A | 02     | T623P0   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 09271   |        | XA109     | 66  |       | XA113  | 24        |     |       | 16B         | 9    |       |       | TBT200 | 01     | TBT200   | 01   | 1      | TQ2              | E1    |                     | 31A                | SET BOOTSTRAP2     |        |
| 01739   |        | XA109     | 67  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 09274   |        | XA109     | 68  |       |        |           |     |       |             |      |       |       | TBT21A | 02     | TBT200   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 17299   |        | XA109     | 69  |       |        |           |     |       |             |      |       |       | T623P0 | 02     | T623P0   | 00   | 1      | TQ2              | F3    |                     | 35A                | ODD PARITY 16-23   |        |
| 13645   |        | XA109     | 70  |       | XA112  | 66        |     |       | 16B         | 9    |       |       | TI311A | 01     | TBT200   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 17170   |        | XA109     | 71  |       | XA110  | 72        |     |       | 16B         | 9    |       |       | TI508A | 02     | T815P0   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 17308   |        | XA109     | 72  |       | XA110  | 69        |     |       | 16B         | 9    |       |       | T815P0 | 01     | T815P0   | 00   | 1      | TQ2              | F2    |                     | 34A                | ODD PARITY 8-15    |        |
| 17140   |        | XA109     | 73  |       | XA209  | 27        |     |       | 16B         | 9    |       |       | T0815A | 02     | T815P0   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 17223   |        | XA109     | 74  |       | XA209  | 39        |     |       | 16B         | 9    |       |       | T2316A | 02     | T623P0   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 17084   |        | XA109     | 75  |       | XA110  | 71        |     |       | 16B         | 9    |       |       | T007P0 | 01     | T007P0   | 00   | 1      | TQ2              | F1    |                     | 37B                | ODD PARITY 0-7     |        |
| 17272   |        | XA109     | 76  |       | XA209  | 43        |     |       | 16B         | 9    |       |       | T3124A | 02     | T431P0   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| CONNECTOR (XA109) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA109  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 17

| RECORD NUMBER                                     | FROM   |           |     | TO | WIRE   |           |     |             | SIGNAL | SEQ NO | EQUATION | TERM | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|----|--------|-----------|-----|-------------|--------|--------|----------|------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN |    | PREFIX | CONNECTOR | PIN | MULTI GROUP |        |        |          |      |                  |       |                     |                    |                    |                  |
| 17073   |        | XA109     | 77  |    | XA209  | 20        |     | 16B         | 9      |        | T0007A   | 02   | T007P0           | 01    | 1                   | TQ2                | F1                 | 38B              |
| 17238   |        | XA109     | 78  |    | XA209  | 50        |     | 16B         | 9      |        | T2431A   | 02   | T431P0           | 01    | 2                   | TQ2                | F4                 | 38A              |
| 17125   |        | XA109     | 79  |    | XA110  | 78        |     | 16B         | 9      |        | T0700A   | 02   | T007P0           | 01    | 2                   | TQ2                | F1                 | 39B              |
| 17291   |        | XA109     | 80  |    |        |           |     |             |        |        | T431P0   | 02   | T431P0           | 00    | 1                   | TQ2                | F4                 | 39A              |
|   |        |           |     |    |        |           |     |             |        |        |          |      |                  |       |                     |                    |                    | ODD PARITY 24-31 |
| 17068   |        | XA110     | 01  |    |        |           |     |             |        |        | T0001A   | 03   | T0300A           | 01    | 1                   | TT3                | A2                 | 02B              |
| 01740   |        | XA110     | 02  |    |        |           |     |             |        |        | GND      | 01   |                  |       |                     | TT3                |                    | 01B              |
| 17088   |        | XA110     | 03  |    | XA111  | 10        |     | 16B         | 9      |        | T0100A   | 01   | T0300A           | 01    | 2                   | TT3                | A2                 | 02A              |
| 17071   |        | XA110     | 04  |    |        |           |     |             |        |        | T0003A   | 03   | T0003A           | 00    | 1                   | TT3                | A1                 | 04A              |
|   |        |           |     |    |        |           |     |             |        |        |          |      |                  |       |                     |                    |                    | 0.1 EVEN 2.3 ODD |
| 17209   |        | XA110     | 05  |    |        |           |     |             |        |        | T203P0   | 02   | T0300A           | 01    | 3                   | TT3                | A2                 | 03B              |
| 17087   |        | XA110     | 06  |    |        |           |     |             |        |        | T010P0   | 02   | T0003A           | 01    | 1                   | TT3                | A1                 | 05A              |
| 17106   |        | XA110     | 07  |    |        |           |     |             |        |        | T0300A   | 03   | T0300A           | 00    | 1                   | TT3                | A2                 | 03A              |
| 17109   |        | XA110     | 08  |    |        |           |     |             |        |        | T0302A   | 03   | T0003A           | 01    | 2                   | TT3                | A1                 | 06A              |
| 17281   |        | XA110     | 09  |    |        |           |     |             |        |        | T405P0   | 02   | T0407A           | 01    | 1                   | TT3                | A3                 | 04B              |
| 17096   |        | XA110     | 10  |    | XA111  | 05        |     | 16B         | 9      |        | T0203A   | 02   | T0003A           | 01    | 3                   | TT3                | A1                 | 07A              |
| 17121   |        | XA110     | 11  |    | XA111  | 11        |     | 16B         | 9      |        | T0607A   | 01   | T0407A           | 01    | 2                   | TT3                | A3                 | 05B              |
| 00290   |        | XA110     | 12  |    |        |           |     |             |        |        | +5V      | 01   |                  |       |                     | TT3                |                    |                  |
| 17130   |        | XA110     | 13  |    | XA111  | 13        |     | 16B         | 9      |        | T0706A   | 01   | T0407A           | 01    | 3                   | TT3                | A3                 | 06B              |
| 17145   |        | XA110     | 14  |    | XA111  | 20        |     | 16B         | 9      |        | T1011A   | 01   | T0811A           | 01    | 1                   | TT3                | B2                 | 09A              |
|   |        |           |     |    |        |           |     |             |        |        |          |      |                  |       |                     |                    |                    | 4.5 EVEN 6.7 ODD |
| 17117   |        | XA110     | 15  |    |        |           |     |             |        |        | T0407A   | 03   | T0407A           | 00    | 1                   | TT3                | A3                 | 07B              |
| 01741   |        | XA110     | 16  |    |        |           |     |             |        |        | GND      | 01   |                  |       |                     | TT3                |                    | 21B              |
| 17153   |        | XA110     | 17  |    |        |           |     |             |        |        | T1110A   | 03   | T0811A           | 01    | 2                   | TT3                | B2                 | 08B              |
| 17304   |        | XA110     | 18  |    | XA111  | 22        |     | 16B         | 9      |        | T809P0   | 01   | T0811A           | 01    | 3                   | TT3                | B2                 | 10A              |
| 17136   |        | XA110     | 19  |    | XA111  | 55        |     | 16B         | 9      |        | T0811A   | 01   | T0811A           | 00    | 1                   | TT3                | B2                 | 09B              |
| 17127   |        | XA110     | 20  |    | XA111  | 64        |     | 16B         | 9      |        | T0704A   | 01   | T0704A           | 00    | 1                   | TT3                | B1                 | 11A              |
|   |        |           |     |    |        |           |     |             |        |        |          |      |                  |       |                     |                    |                    | 8.9 EVEN 10.11   |
| 17092   |        | XA110     | 21  |    |        |           |     |             |        |        | T011P0   | 02   | T1108A           | 01    | 1                   | TT3                | B3                 | 10B              |
| 17293   |        | XA110     | 22  |    |        |           |     |             |        |        | T607P0   | 02   | T0704A           | 01    | 1                   | TT3                | B1                 | 12A              |
| 17142   |        | XA110     | 23  |    | XA111  | 24        |     | 16B         | 9      |        | T0908A   | 01   | T1108A           | 01    | 2                   | TT3                | B3                 | 11B              |
| 17113   |        | XA110     | 24  |    | XA111  | 07        |     | 16B         | 9      |        | T0405A   | 02   | T0704A           | 01    | 2                   | TT3                | B1                 | 13A              |
| 17133   |        | XA110     | 25  |    | XA111  | 26        |     | 16B         | 9      |        | T0809A   | 01   | T1108A           | 01    | 3                   | TT3                | B3                 | 12B              |
| 17119   |        | XA110     | 26  |    | XA111  | 03        |     | 16B         | 9      |        | T0504A   | 02   | T0704A           | 01    | 3                   | TT3                | B1                 | 14A              |
| 17148   |        | XA110     | 27  |    | XA111  | 53        |     | 16B         | 9      |        | T1108A   | 01   | T1108A           | 00    | 1                   | TT3                | B3                 | 13B              |
| 00291   |        | XA110     | 28  |    |        |           |     |             |        |        | +5V      | 01   |                  |       |                     | TT3                |                    | 10.11 EVEN 8.9 O |
| 17284   |        | XA110     | 29  |    | XA111  | 27        |     | 16B         | 9      |        | T415P0   | 01   | T1512A           | 01    | 1                   | TT3                | C2                 | 14B              |
| 17161   |        | XA110     | 30  |    | XA111  | 17        |     | 16B         | 9      |        | T1312A   | 02   | T1512A           | 01    | 2                   | TT3                | C2                 | 15A              |
| 17172   |        | XA110     | 31  |    | XA111  | 59        |     | 16B         | 9      |        | T1512A   | 01   | T1512A           | 00    | 1                   | TT3                | C2                 | 15B              |
| 01742   |        | XA110     | 32  |    |        |           |     |             |        |        | GND      | 01   |                  |       |                     | TT3                |                    | 27A              |
| 17193   |        | XA110     | 33  |    | XA111  | 34        |     | 16B         | 9      |        | T1819A   | 01   | T1619A           | 01    | 1                   | TT3                | C3                 | 16B              |
| 17155   |        | XA110     | 34  |    | XA111  | 19        |     | 16B         | 9      |        | T1213A   | 02   | T1512A           | 01    | 3                   | TT3                | C2                 | 16A              |
| 17199   |        | XA110     | 35  |    | XA111  | 36        |     | 16B         | 9      |        | T1918A   | 01   | T1619A           | 01    | 2                   | TT3                | C3                 | 17B              |
| 17159   |        | XA110     | 36  |    |        |           |     |             |        |        | T1215A   | 03   | T1215A           | 00    | 1                   | TT3                | C1                 | 17A              |
|   |        |           |     |    |        |           |     |             |        |        |          |      |                  |       |                     |                    |                    | 12.13 EVEN 14.15 |
| 17295   |        | XA110     | 37  |    |        |           |     |             |        |        | T617P0   | 02   | T1619A           | 01    | 3                   | TT3                | C3                 | 18B              |
| 17214   |        | XA110     | 38  |    |        |           |     |             |        |        | T213P0   | 02   | T1215A           | 01    | 1                   | TT3                | C1                 | 18A              |
| 17181   |        | XA110     | 39  |    | XA111  | 77        |     | 16B         | 9      |        | T1619A   | 01   | T1619A           | 00    | 1                   | TT3                | C3                 | 19B              |
| 17176   |        | XA110     | 40  |    | XA111  | 23        |     | 16B         | 9      |        | T1514A   | 02   | T1215A           | 01    | 2                   | TT3                | C1                 | 19A              |
| 17099   |        | XA110     | 41  |    |        |           |     |             |        |        | T021P0   | 02   | T2023A           | 01    | 1                   | TT3                | D2                 | 22B              |
| 17164   |        | XA110     | 42  |    | XA224  | 22        |     | 16B         | 9      |        | T1415A   | 02   | T1215A           | 01    | 3                   | TT3                | C1                 | 20A              |
| 17205   |        | XA110     | 43  |    | XA111  | 71        |     | 16B         | 9      |        | T2023A   | 01   | T2023A           | 00    | 1                   | TT3                | D2                 | 23B              |
| 01743   |        | XA110     | 44  |    |        |           |     |             |        |        | GND      | 01   |                  |       |                     | TT3                |                    | 40A              |
|   |        |           |     |    |        |           |     |             |        |        |          |      |                  |       |                     |                    |                    | 20.21 EVEN 22.23 |
| CONNECTOR (XA110) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |             |        |        |          |      |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA110  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 18

| RECORD NUMBER | FROM   |           |                                 |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SQ NO | EQUATION | TERM | FACTOR | CKT OR SWP TYPE | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|-------|----------|------|--------|-----------------|---------------------|--------------------|--------------------|------------------|
|               | PREFIX | CONNECTOR | PIN                             | SH TO | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR | IDENT |        |       |          |      |        |                 |                     |                    |                    |                  |
| 17203         | XA110  | 45        |                                 |       | XA225  | 63        |     |       | 16B         | 9    |       |       | T2021A | 02    | T2320A   | 01   | 1      | TT3             | D3                  |                    | 24B                |                  |
| 17218         | XA110  | 46        |                                 |       | XA111  | 37        |     |       | 16B         | 9    |       |       | T2223A | 02    | T2023A   | 01   | 2      | TT3             | D2                  |                    | 21A                |                  |
| 17211         | XA110  | 47        |                                 |       | XA111  | 29        |     |       | 16B         | 9    |       |       | T2120A | 02    | T2320A   | 01   | 2      | TT3             | D3                  |                    | 25B                |                  |
| 17229         | XA110  | 48        |                                 |       | XA111  | 35        |     |       | 16B         | 9    |       |       | T2322A | 02    | T2023A   | 01   | 3      | TT3             | D2                  |                    | 22A                |                  |
| 17221         | XA110  | 49        |                                 |       |        |           |     |       |             |      |       |       | T223P0 | 02    | T2320A   | 01   | 3      | TT3             | D3                  |                    | 26B                |                  |
| 17196         | XA110  | 50        |                                 |       |        |           |     |       |             |      |       |       | T1916A | 03    | T1916A   | 00   | 1      | TT3             | D1                  |                    | 23A                | 16.17 ODD 18.19  |
| 17225         | XA110  | 51        |                                 |       | XA111  | 73        |     |       | 16B         | 9    |       |       | T2320A | 01    | T2320A   | 00   | 1      | TT3             | D3                  |                    | 27B                | 20.21 ODD 22.23  |
| 17310         | XA110  | 52        |                                 |       | XA111  | 30        |     |       | 16B         | 9    |       |       | T819P0 | 01    | T1916A   | 01   | 1      | TT3             | D1                  |                    | 24A                |                  |
| 17301         | XA110  | 53        |                                 |       |        |           |     |       |             |      |       |       | T627P0 | 02    | T2724A   | 01   | 1      | TT3             | E2                  |                    | 28B                |                  |
| 17179         | XA110  | 54        |                                 |       | XA224  | 30        |     |       | 16B         | 9    |       |       | T1617A | 02    | T1916A   | 01   | 2      | TT3             | D1                  |                    | 25A                |                  |
| 17248         | XA110  | 55        |                                 |       |        |           |     |       |             |      |       |       | T2724A | 03    | T2724A   | 00   | 1      | TT3             | E2                  |                    | 29B                | 24.25 ODD 26.27  |
| 17191         | XA110  | 56        |                                 |       | XA224  | 38        |     |       | 16B         | 9    |       |       | T1716A | 02    | T1916A   | 01   | 3      | TT3             | D1                  |                    | 26A                |                  |
| 17278         | XA110  | 57        |                                 |       | XA111  | 47        |     |       | 16B         | 9    |       |       | T3130A | 02    | T2831A   | 01   | 1      | TT3             | E3                  |                    | 30B                |                  |
| 01744         | XA110  | 58        |                                 |       |        |           |     |       |             |      |       |       | GND    | 01    |          |      |        | TT3             |                     |                    | 40B                |                  |
| 17262         | XA110  | 59        |                                 |       | XA219  | 45        |     |       | 16B         | 9    |       |       | T3031A | 02    | T2831A   | 01   | 2      | TT3             | E3                  |                    | 31B                |                  |
| 17233         | XA110  | 60        |                                 |       |        |           |     |       |             |      |       |       | T2425A | 03    | T2724A   | 01   | 2      | TT3             | E2                  |                    | 28A                |                  |
| 17313         | XA110  | 61        |                                 |       |        |           |     |       |             |      |       |       | T829P0 | 02    | T2831A   | 01   | 3      | TT3             | E3                  |                    | 32B                |                  |
| 17241         | XA110  | 62        |                                 |       | XA219  | 15        |     |       | 16B         | 9    |       |       | T2524A | 02    | T2724A   | 01   | 3      | TT3             | E2                  |                    | 29A                |                  |
| 17255         | XA110  | 63        |                                 |       | XA111  | 76        |     |       | 16B         | 9    |       |       | T2831A | 01    | T2831A   | 00   | 1      | TT3             | E3                  |                    | 33B                | 29.29 EVEN 30.31 |
| 17235         | XA110  | 64        |                                 |       | XA111  | 65        |     |       | 16B         | 9    |       |       | T2427A | 02    | T2427A   | 00   | 1      | TT3             | E1                  |                    | 30A                | 24.25 EVEN 26.27 |
| 17139         | XA110  | 65        |                                 |       | XA109  | 73        |     |       | 16B         | 9    |       |       | T0815A | 01    | T0015A   | 01   | 1      | TT3             | F2                  |                    | 34B                |                  |
| 17287         | XA110  | 66        |                                 |       |        |           |     |       |             |      |       |       | T425P0 | 02    | T2427A   | 01   | 1      | TT3             | E1                  |                    | 31A                |                  |
| 01745         | XA110  | 67        |                                 |       |        |           |     |       |             |      |       |       | GND    | 01    |          |      |        | TT3             |                     |                    |                    |                  |
| 17244         | XA110  | 68        |                                 |       | XA219  | 21        |     |       | 16B         | 9    |       |       | T2627A | 02    | T2427A   | 01   | 2      | TT3             | E1                  |                    | 32A                |                  |
| 17309         | XA110  | 69        |                                 |       |        |           |     |       |             |      |       |       | T815P0 | 02    | T1503A   | 01   | 1      | TT3             | F3                  |                    | 35A                |                  |
| 17250         | XA110  | 70        |                                 |       | XA111  | 50        |     |       | 16B         | 9    |       |       | T2726A | 02    | T2427A   | 01   | 3      | TT3             | E1                  |                    | 33A                |                  |
| 17085         | XA110  | 71        |                                 |       |        |           |     |       |             |      |       |       | T007P0 | 02    | T0015A   | 01   | 2      | TT3             | F2                  |                    | 36A                |                  |
| 17171         | XA110  | 72        |                                 |       |        |           |     |       |             |      |       |       | T1508A | 03    | T0015A   | 01   | 3      | TT3             | F2                  |                    | 34A                |                  |
| 17082         | XA110  | 73        |                                 |       | XA206  | 25        |     |       | 16B         | 9    |       |       | T0331A | 03    | T0031A   | 00   | 1      | TT3             | F1                  |                    | 36B                | 3-15 ODD 16-31 E |
| 17077         | XA110  | 74        |                                 |       |        |           |     |       |             |      |       |       | T0015A | 03    | T0015A   | 00   | 1      | TT3             | F2                  |                    | 35B                | 0-7 ODD 8-15 EVE |
| 17094         | XA110  | 75        |                                 |       |        |           |     |       |             |      |       |       | T015P0 | 02    | T0031A   | 01   | 1      | TT3             | F1                  |                    | 37B                |                  |
| 17072         | XA110  | 76        |                                 |       | XA109  | 77        |     |       | 16B         | 9    |       |       | T0007A | 01    | T1500A   | 01   | 2      | TT3             | F3                  |                    | 37A                |                  |
| 17268         | XA110  | 77        |                                 |       | XA109  | 62        |     |       | 16B         | 9    |       |       | T3116A | 01    | T0031A   | 01   | 2      | TT3             | F1                  |                    | 38B                |                  |
| 17126         | XA110  | 78        |                                 |       |        |           |     |       |             |      |       |       | T0700A | 03    | T1500A   | 01   | 3      | TT3             | F3                  |                    | 38A                |                  |
| 17187         | XA110  | 79        |                                 |       | XA109  | 64        |     |       | 16B         | 9    |       |       | T1631A | 01    | T0031A   | 01   | 3      | TT3             | F1                  |                    | 39B                |                  |
| 17166         | XA110  | 80        |                                 |       |        |           |     |       |             |      |       |       | T1500A | 03    | T1500A   | 00   | 1      | TT3             | F3                  |                    | 39A                | 0-7 EVEN 8-15 OD |
| 17208         | XA111  | 01        |                                 |       | XA110  | 05        |     |       | 16B         | 9    |       |       | T203P0 | 01    | T203P0   | 00   | 1      | TQ2             | A2                  |                    | 02B                | ODD PARITY 2.3   |
| 01746         | XA111  | 02        |                                 |       |        |           |     |       |             |      |       |       | GND    | 01    |          |      |        | TQ2             |                     |                    | 01A                |                  |
| 17120         | XA111  | 03        |                                 |       |        |           |     |       |             |      |       |       | T0504A | 03    | T405P0   | 01   | 1      | TQ2             | A3                  |                    | 02A                |                  |
| 17108         | XA111  | 04        |                                 |       | XA110  | 08        |     |       | 16B         | 9    |       |       | T0302A | 02    | T203P0   | 01   | 1      | TQ2             | A2                  |                    | 04A                |                  |
| 17097         | XA111  | 05        |                                 |       |        |           |     |       |             |      |       |       | T0203A | 03    | T203P0   | 01   | 2      | TQ2             | A2                  |                    | 03B                |                  |
| 17086         | XA111  | 06        |                                 |       | XA110  | 06        |     |       | 16B         | 9    |       |       | T010P0 | 01    | T010P0   | 00   | 1      | TQ2             | A1                  |                    | 05A                | EVEN PARITY 0-1  |
| 17114         | XA111  | 07        |                                 |       |        |           |     |       |             |      |       |       | T0405A | 03    | T405P0   | 01   | 2      | TQ2             | A3                  |                    | 03A                |                  |
| 17067         | XA111  | 08        |                                 |       | XA110  | 01        |     |       | 16B         | 9    |       |       | T0001A | 02    | T010P0   | 01   | 1      | TQ2             | A1                  |                    | 06A                |                  |
| 17280         | XA111  | 09        |                                 |       | XA110  | 09        |     |       | 16B         | 9    |       |       | T405P0 | 01    | T405P0   | 00   | 1      | TQ2             | A3                  |                    | 04B                | PARITY 4-5 EVEN  |
| 17089         | XA111  | 10        |                                 |       | XA231  | 15        |     |       | 16B         | 9    |       |       | T0100A | 02    | T010P0   | 01   | 2      | TQ2             | A1                  |                    | 07A                |                  |
| 17122         | XA111  | 11        |                                 |       | XA231  | 45        |     |       | 16B         | 9    |       |       | T0607A | 02    | T607P0   | 01   | 1      | TQ2             | A4                  |                    | 05B                |                  |
| 00292         | XA111  | 12        |                                 |       |        |           |     |       |             |      |       |       | +5V    | 01    |          |      |        | TQ2             |                     |                    |                    |                  |
| CONNECTOR     |        | XA111     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |       |       |        |       |          |      |        |                 |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA111  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 19

| RECORD NUMBER | FROM   |           |                                 | C | TO     |           |     | MULTI GROUP | WIRE |       |        | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|---|--------|-----------|-----|-------------|------|-------|--------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             |   | PREFIX | CONNECTOR | PIN |             | CODE | COLOR | IDENT  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17131         |        | XA111     | 13                              |   | XA231  | 51        |     | 16B         | 9    |       | T0706A | 02     | T607P0 | 01       | 2    | TQ2    | A4               |       | 06B                 | EVEN PARITY 10-1   |                    |        |
| 17091         |        | XA111     | 14                              |   | XA110  | 21        |     | 16B         | 9    |       | T011P0 | 01     | T011P0 | 00       | 1    | TQ2    | B2               |       | 09A                 |                    |                    |        |
| 17292         |        | XA111     | 15                              |   | XA110  | 22        |     | 16B         | 9    |       | T607P0 | 01     | T607P0 | 00       | 1    | TQ2    | A4               |       | 07B                 | EVEN PARITY 6-7    |                    |        |
| 01747         |        | XA111     | 16                              |   |        |           |     |             |      |       | GND    | 01     |        |          |      | TQ2    |                  |       | 01B                 |                    |                    |        |
| 17162         |        | XA111     | 17                              |   |        |           |     |             |      |       | T1312A | 03     | T213P0 | 01       | 1    | TQ2    | B3               |       | 08B                 |                    |                    |        |
| 17152         |        | XA111     | 18                              |   | XA110  | 17        |     | 16B         | 9    |       | T1110A | 02     | T011P0 | 01       | 1    | TQ2    | B2               |       | 10A                 |                    |                    |        |
| 17156         |        | XA111     | 19                              |   |        |           |     |             |      |       | T1213A | 03     | T213P0 | 01       | 2    | TQ2    | B3               |       | 09B                 |                    |                    |        |
| 17146         |        | XA111     | 20                              |   | XA231  | 69        |     | 16B         | 9    |       | T1011A | 02     | T011P0 | 01       | 2    | TQ2    | B2               |       | 11A                 |                    |                    |        |
| 17213         |        | XA111     | 21                              |   | XA110  | 38        |     | 16B         | 9    |       | T213P0 | 01     | T213P0 | 00       | 1    | TQ2    | B3               |       | 10B                 | EVEN PARITY 12-1   |                    |        |
| 17305         |        | XA111     | 22                              |   |        |           |     |             |      |       | T809P0 | 02     | T809P0 | 00       | 1    | TQ2    | B1               |       | 12A                 |                    |                    |        |
| 17177         |        | XA111     | 23                              |   |        |           |     |             |      |       | T1514A | 03     | T415P0 | 01       | 1    | TQ2    | B4               |       | 11B                 |                    |                    |        |
| 17143         |        | XA111     | 24                              |   | XA231  | 63        |     | 16B         | 9    |       | T0908A | 02     | T809P0 | 01       | 1    | TQ2    | B1               |       | 13A                 |                    |                    |        |
| 17163         |        | XA111     | 25                              |   | XA110  | 42        |     | 16B         | 9    |       | T1415A | 01     | T415P0 | 01       | 2    | TQ2    | B4               |       | 12B                 |                    |                    |        |
| 17134         |        | XA111     | 26                              |   | XA231  | 57        |     | 16B         | 9    |       | T0809A | 02     | T809P0 | 01       | 2    | TQ2    | B1               |       | 14A                 |                    |                    |        |
| 17285         |        | XA111     | 27                              |   |        |           |     |             |      |       | T415P0 | 02     | T415P0 | 00       | 1    | TQ2    | B4               |       | 13B                 | EVEN PARITY 14-1   |                    |        |
| 00293         |        | XA111     | 28                              |   |        |           |     |             |      |       | +5V    | 01     |        |          |      | TQ2    |                  |       |                     |                    |                    |        |
| 17212         |        | XA111     | 29                              |   |        |           |     |             |      |       | T2120A | 03     | T021P0 | 01       | 1    | TQ2    | C3               |       | 14B                 | EVEN PARITY 18-1   |                    |        |
| 17311         |        | XA111     | 30                              |   |        |           |     |             |      |       | T819P0 | 02     | T819P0 | 00       | 1    | TQ2    | C2               |       | 15A                 |                    |                    |        |
| 17202         |        | XA111     | 31                              |   | XA110  | 45        |     | 16B         | 9    |       | T2021A | 01     | T021P0 | 01       | 2    | TQ2    | C3               |       | 15B                 |                    |                    |        |
| 01748         |        | XA111     | 32                              |   |        |           |     |             |      |       | GND    | 01     |        |          |      | TQ2    |                  |       | 20B                 | EVEN PARITY 20-2   |                    |        |
| 17098         |        | XA111     | 33                              |   | XA110  | 41        |     | 16B         | 9    |       | T021P0 | 01     | T021P0 | 00       | 1    | TQ2    | C3               |       | 16B                 |                    |                    |        |
| 17194         |        | XA111     | 34                              |   | XA225  | 51        |     | 16B         | 9    |       | T1819A | 02     | T819P0 | 01       | 1    | TQ2    | C2               |       | 16A                 |                    |                    |        |
| 17230         |        | XA111     | 35                              |   |        |           |     |             |      |       | T2322A | 03     | T223P0 | 01       | 1    | TQ2    | C4               |       | 17B                 | EVEN PARITY 20-2   |                    |        |
| 17200         |        | XA111     | 36                              |   | XA225  | 45        |     | 16B         | 9    |       | T1918A | 02     | T819P0 | 01       | 2    | TQ2    | C2               |       | 17A                 |                    |                    |        |
| 17219         |        | XA111     | 37                              |   |        |           |     |             |      |       | T2223A | 03     | T223P0 | 01       | 2    | TQ2    | C4               |       | 18B                 | EVEN PARITY 16-1   |                    |        |
| 17294         |        | XA111     | 38                              |   | XA110  | 37        |     | 16B         | 9    |       | T617P0 | 01     | T617P0 | 00       | 1    | TQ2    | C1               |       | 18A                 |                    |                    |        |
| 17220         |        | XA111     | 39                              |   | XA110  | 49        |     | 16B         | 9    |       | T223P0 | 01     | T223P0 | 00       | 1    | TQ2    | C4               |       | 19B                 | EVEN PARITY 22-2   |                    |        |
| 17178         |        | XA111     | 40                              |   | XA110  | 54        |     | 16B         | 9    |       | T1617A | 01     | T617P0 | 01       | 1    | TQ2    | C1               |       | 19A                 |                    |                    |        |
| 17259         |        | XA111     | 41                              |   | XA219  | 39        |     | 16B         | 9    |       | T2928A | 02     | T829P0 | 01       | 1    | TQ2    | D3               |       | 22B                 |                    |                    |        |
| 17190         |        | XA111     | 42                              |   | XA110  | 56        |     | 16B         | 9    |       | T1716A | 01     | T617P0 | 01       | 2    | TQ2    | C1               |       | 20A                 |                    |                    |        |
| 17253         |        | XA111     | 43                              |   | XA219  | 33        |     | 16B         | 9    |       | T2829A | 02     | T829P0 | 01       | 2    | TQ2    | D3               |       | 23B                 | EVEN PARITY 28.2   |                    |        |
| 01749         |        | XA111     | 44                              |   |        |           |     |             |      |       | GND    | 01     |        |          |      | TQ2    |                  |       | 21B                 |                    |                    |        |
| 17312         |        | XA111     | 45                              |   | XA110  | 61        |     | 16B         | 9    |       | T829P0 | 01     | T829P0 | 00       | 1    | TQ2    | D3               |       | 24B                 | EVEN PARITY 26-2   |                    |        |
| 17300         |        | XA111     | 46                              |   | XA110  | 53        |     | 16B         | 9    |       | T627P0 | 01     | T627P0 | 00       | 1    | TQ2    | D2               |       | 21A                 |                    |                    |        |
| 17279         |        | XA111     | 47                              |   |        |           |     |             |      |       | T3130A | 03     | T031P0 | 01       | 1    | TQ2    | D4               |       | 25B                 |                    |                    |        |
| 17243         |        | XA111     | 48                              |   | XA110  | 68        |     | 16B         | 9    |       | T2627A | 01     | T627P0 | 01       | 1    | TQ2    | D2               |       | 22A                 |                    |                    |        |
| 17261         |        | XA111     | 49                              |   | XA110  | 59        |     | 16B         | 9    |       | T3031A | 01     | T031P0 | 01       | 2    | TQ2    | D4               |       | 26B                 | EVEN PARITY 30-3   |                    |        |
| 17251         |        | XA111     | 50                              |   |        |           |     |             |      |       | T2726A | 03     | T627P0 | 01       | 2    | TQ2    | D2               |       | 23A                 |                    |                    |        |
| 17111         |        | XA111     | 51                              |   |        |           |     |             |      |       | T031P0 | 02     | T031P0 | 00       | 1    | TQ2    | D4               |       | 27B                 | EVEN PARITY 24.2   |                    |        |
| 17286         |        | XA111     | 52                              |   | XA110  | 66        |     | 16B         | 9    |       | T425P0 | 01     | T425P0 | 00       | 1    | TQ2    | D1               |       | 24A                 |                    |                    |        |
| 17149         |        | XA111     | 53                              |   | XA209  | 40        |     | 16B         | 9    |       | T1108A | 02     | T811P0 | 01       | 1    | TQ2    | E3               |       | 28B                 |                    |                    |        |
| 17240         |        | XA111     | 54                              |   | XA110  | 62        |     | 16B         | 9    |       | T2524A | 01     | T425P0 | 01       | 1    | TQ2    | D1               |       | 25A                 |                    |                    |        |
| 17137         |        | XA111     | 55                              |   | XA209  | 42        |     | 16B         | 9    |       | T0811A | 02     | T811P0 | 01       | 2    | TQ2    | E3               |       | 29B                 | ODD PARITY 8-11    |                    |        |
| 17232         |        | XA111     | 56                              |   | XA110  | 60        |     | 16B         | 9    |       | T2425A | 02     | T425P0 | 01       | 2    | TQ2    | D1               |       | 26A                 |                    |                    |        |
| 17307         |        | XA111     | 57                              |   |        |           |     |             |      |       | T811P0 | 02     | T811P0 | 00       | 1    | TQ2    | E3               |       | 30B                 |                    |                    |        |
| 01750         |        | XA111     | 58                              |   |        |           |     |             |      |       | GND    | 01     |        |          |      | TQ2    |                  |       | 27A                 |                    |                    |        |
| 17173         |        | XA111     | 59                              |   | XA209  | 23        |     | 16B         | 9    |       | T1512A | 02     | T215P0 | 01       | 1    | TQ2    | E4               |       | 31B                 | ODD PARITY 4-7     |                    |        |
| 17283         |        | XA111     | 60                              |   |        |           |     |             |      |       | T407P0 | 02     | T407P0 | 00       | 1    | TQ2    | E2               |       | 28A                 |                    |                    |        |
| 17116         |        | XA111     | 61                              |   | XA110  | 36        |     | 16B         | 9    |       | T1215A | 02     | T215P0 | 01       | 2    | TQ2    | E4               |       | 32B                 |                    |                    |        |
| 17116         |        | XA111     | 62                              |   | XA110  | 15        |     | 16B         | 9    |       | T0407A | 02     | T407P0 | 01       | 1    | TQ2    | E2               |       | 29A                 |                    |                    |        |
| CONNECTOR     |        | XA111     | CONTINUED ON THE NEXT PAGE **** |   |        |           |     |             |      |       |        |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA111  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 20

| RECORD NUMBER                                     | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION                  | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|-------------------------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PCB | PREFIX | CONNECTOR | PIN | PCB | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                                     |        |
| 17216   |        | XA111     | 63  |     |        |           |     |     |             |      |       |       | T215P0 | 02     | T215P0   | 00   | 1      | TQ2              | E4    |                     | 33B                | ODD PARITY 12-15                    |        |
| 17128   |        | XA111     | 64  |     | XA209  | 24        |     |     |             | 16B  | 9     |       | T0704A | 02     | T407P0   | 01   | 2      | TQ2              | E2    |                     | 30A                |                                     |        |
| 17236   |        | XA111     | 65  |     |        |           |     |     |             |      |       |       | T2427A | 03     | T427P0   | 01   | 1      | TQ2              | F3    |                     | 34B                | ODD PARITY 0-3                      |        |
| 17079   |        | XA111     | 66  |     |        |           |     |     |             |      |       |       | T003P0 | 02     | T003P0   | 03   | 1      | TQ2              | E1    |                     | 31A                |                                     |        |
| 01751   |        | XA111     | 67  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                                     |        |
| 17105   |        | XA111     | 68  |     | XA110  | 07        |     |     |             | 16B  | 9     |       | T0300A | 02     | T003P0   | 01   | 1      | TQ2              | E1    |                     | 32A                |                                     |        |
| 17289   |        | XA111     | 69  |     |        |           |     |     |             |      |       |       | T427P0 | 02     | T427P0   | 00   | 1      | TQ2              | F3    |                     | 35A                | ODD PARITY 24-27                    |        |
| 17070   |        | XA111     | 70  |     | XA110  | 04        |     |     |             | 16B  | 9     |       | T0003A | 02     | T003P0   | 01   | 2      | TQ2              | E1    |                     | 33A                |                                     |        |
| 17206   |        | XA111     | 71  |     | XA209  | 30        |     |     |             | 16B  | 9     |       | T2023A | 02     | T023P0   | 01   | 1      | TQ2              | F2    |                     | 36A                | ODD PARITY 20-23                    |        |
| 17101   |        | XA111     | 72  |     |        |           |     |     |             |      |       |       | T023P0 | 02     | T023P0   | 03   | 1      | TQ2              | F2    |                     | 34A                |                                     |        |
| 17226   |        | XA111     | 73  |     | XA209  | 34        |     |     |             | 16B  | 9     |       | T2320A | 02     | T023P0   | 01   | 2      | TQ2              | F2    |                     | 36B                |                                     |        |
| 17247   |        | XA111     | 74  |     | XA110  | 55        |     |     |             | 16B  | 9     |       | T2724A | 02     | T427P0   | 01   | 2      | TQ2              | F3    |                     | 35B                |                                     |        |
| 17297   |        | XA111     | 75  |     |        |           |     |     |             |      |       |       | T619P0 | 02     | T619P0   | 00   | 1      | TQ2              | F1    |                     | 37B                | ODD PARITY 16-19                    |        |
| 17256   |        | XA111     | 76  |     | XA209  | 56        |     |     |             | 16B  | 9     |       | T2831A | 02     | T831P0   | 01   | 1      | TQ2              | F4    |                     | 37A                |                                     |        |
| 17182   |        | XA111     | 77  |     | XA209  | 33        |     |     |             | 16B  | 9     |       | T1619A | 02     | T619P0   | 01   | 1      | TQ2              | F1    |                     | 38B                |                                     |        |
| 17275   |        | XA111     | 78  |     | XA209  | 54        |     |     |             | 16B  | 9     |       | T3128A | 02     | T831P0   | 01   | 2      | TQ2              | F4    |                     | 38A                |                                     |        |
| 17197   |        | XA111     | 79  |     | XA110  | 50        |     |     |             | 16B  | 9     |       | T1916A | 02     | T619P0   | 01   | 2      | TQ2              | F1    |                     | 39B                | ODD PARITY 28-31                    |        |
| 17315   |        | XA111     | 80  |     |        |           |     |     |             |      |       |       | T831P0 | 02     | T831P0   | 03   | 1      | TQ2              | F4    |                     | 39A                |                                     |        |
| 07821   |        | XA112     | 01  |     | XA128  | 68        |     |     |             | 16B  | 9     |       | TER6AA | 01     | TER6AA   | 00   | 1      | TQ2              | A2    |                     | 02B                | C08                                 |        |
| 01752   |        | XA112     | 02  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                                     |        |
| 09265   |        | XA112     | 03  |     |        |           |     |     |             |      |       |       | TBT12A | 04     | TBT100   | 01   | 1      | TQ2              | A3    |                     | 02A                | C08                                 |        |
| 04931   |        | XA112     | 04  |     | XA136  | 36        |     |     |             | 16B  | 9     |       | TBC2BQ | 005    | TER6AA   | 01   | 1      | TQ2              | A2    |                     | 04A                |                                     |        |
| 04896   |        | XA112     | 05  |     | XA136  | 26        |     |     |             | 16B  | 9     |       | TBC3BQ | 015    | TER6AA   | 01   | 2      | TQ2              | A2    |                     | 03B                | BOOTSTRAP 1 AND                     |        |
| 09246   |        | XA112     | 06  |     | XA213  | 59        |     |     |             | 16B  | 9     |       | TBS7CA | 01     | TBS7CA   | 00   | 1      | TQ2              | A1    |                     | 05A                |                                     |        |
| 09261   |        | XA112     | 07  |     |        |           |     |     |             |      |       |       | TBT11A | 02     | TBT100   | 01   | 2      | TQ2              | A3    |                     | 03A                | BOOTSTRAP1 SELE                     |        |
| 09174   |        | XA112     | 08  |     | XA112  | 68        |     |     |             | 16B  | 9     |       | TBST1Q | 02     | TBS7CA   | 01   | 1      | TQ2              | A1    |                     | 06A                |                                     |        |
| 09259   |        | XA112     | 09  |     |        |           |     |     |             |      |       |       | TBT100 | 02     | TBT100   | 00   | 1      | TQ2              | A3    |                     | 04B                |                                     |        |
| 13568   |        | XA112     | 10  |     | XA108  | 14        |     |     |             | 16B  | 9     |       | TI20BP | 02     | TBS7CA   | 01   | 2      | TQ2              | A1    |                     | 07A                |                                     |        |
| 10607   |        | XA112     | 11  |     |        |           |     |     |             |      |       |       | TDA3B0 | 05     | TSA3BA   | 01   | 1      | TQ2              | A4    |                     | 05B                |                                     |        |
| 00294   |        | XA112     | 12  |     |        |           |     |     |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                                     |        |
| 09884   |        | XA112     | 13  |     | XA115  | 64        |     |     |             | 16B  | 9     |       | TCSCCO | 04     | TSA3BA   | 01   | 2      | TQ2              | A4    |                     | 06B                |                                     |        |
| 12566   |        | XA112     | 14  |     | XA205  | 04        |     |     |             | 16B  | 9     |       | TES1A0 | 01     | TES1A0   | 00   | 1      | TQ2              | B2    |                     | 09A                |                                     |        |
| 15614   |        | XA112     | 15  |     | XA205  | 39        |     |     |             | 16B  | 9     |       | TSA3BA | 01     | TSA3BA   | 00   | 1      | TQ2              | A4    |                     | 07B                | SPECIAL ADD.03-A                    |        |
| 01753   |        | XA112     | 16  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                                     |        |
| 12583   |        | XA112     | 17  |     | XA334  | 79        |     |     |             | 16B  | 9     |       | TES32A | 02     | YES3A0   | 01   | 1      | TQ2              | B3    |                     | 08B                |                                     |        |
| 12569   |        | XA112     | 18  |     |        |           |     |     |             |      |       |       | TES11A | 02     | TES1A0   | 01   | 1      | TQ2              | B2    |                     | 10A                |                                     |        |
| 16311   |        | XA112     | 19  |     | XA138  | 47        |     |     |             | 16B  | 9     |       | TS21BP | 08     | YES3A0   | 01   | 2      | TQ2              | B3    |                     | 09B                | C05                                 |        |
| 12571   |        | XA112     | 20  |     |        |           |     |     |             |      |       |       | TES12A | 02     | TES1A0   | 01   | 2      | TQ2              | B2    |                     | 11A                |                                     |        |
| 12580   |        | XA112     | 21  |     | XA205  | 05        |     |     |             | 16B  | 9     |       | TES3A0 | 01     | YES3A0   | 00   | 1      | TQ2              | B3    |                     | 10B                | PRESET TE 0,1,7-<br>ODD PARITY 0-15 |        |
| 17093   |        | XA112     | 22  |     | XA110  | 75        |     |     |             | 16B  | 9     |       | T015P0 | 01     | T015P0   | 00   | 1      | TQ2              | B1    |                     | 12A                |                                     |        |
| 16374   |        | XA112     | 23  |     | XA249  | 20        |     |     |             | 16B  | 9     |       | TS23BQ | 02     | YES4AA   | 01   | 1      | TQ2              | B4    |                     | 11B                |                                     |        |
| 17075   |        | XA112     | 24  |     | XA108  | 54        |     |     |             | 16B  | 9     |       | T0015A | 01     | T015P0   | 01   | 1      | TQ2              | B1    |                     | 13A                |                                     |        |
| 04888   |        | XA112     | 25  |     | XA113  | 27        |     |     |             | 16B  | 9     |       | SP1001 | 25     | YES4AA   | 01   | 2      | TQ2              | B4    |                     | 12B                |                                     |        |
| 17166   |        | XA112     | 26  |     | XA108  | 52        |     |     |             | 16B  | 9     |       | T1500A | 01     | T015P0   | 01   | 2      | TQ2              | B1    |                     | 14A                |                                     |        |
| 12587   |        | XA112     | 27  |     |        |           |     |     |             |      |       |       | TES4AA | 03     | YES4AA   | 00   | 1      | TQ2              | B4    |                     | 13B                | PRESET TE 00,01                     |        |
| 00295   |        | XA112     | 28  |     |        |           |     |     |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                                     |        |
| 12588   |        | XA112     | 29  |     | XA112  | 34        |     |     |             | 16B  | 9     |       | TES4A0 | 01     | TES7AA   | 01   | 1      | TQ2              | C3    |                     | 14B                |                                     |        |
| 12594   |        | XA112     | 30  |     | XA246  | 42        |     |     |             | 16B  | 9     |       | TES6AA | 01     | TES6AA   | 00   | 1      | TQ2              | C2    |                     | 15A                | PRESET TE 04 OF                     |        |
| CONNECTOR (XA112) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                                     |        |



DRAWING NUMBER 149019-880

CONNECTOR

UNIT ASSEMBLY NO. 149019

REV G

INDEX XA112

UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

FILE IDENT

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| RECORD NUMBER | FROM   |           |     |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|----|--------|-----------|-----|----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | IN | PREFIX | CONNECTOR | PIN | IN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13464         |        | XA112     | 31  |    |        |           |     |    |             |      |       |       | TITRA0 | 02     | TES7AA   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 01754         |        | XA112     | 32  |    | XA213  | 46        |     |    | 16B         | 9    |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 12597         |        | XA112     | 33  |    |        |           |     |    |             |      |       |       | TES7AA | 02     | TES7AA   | 00   | 1      | TQ2              | C3    |                     | 16B                | PRESET TE 05 IT    |        |
| 12589         |        | XA112     | 34  |    | XA112  | 40        |     |    | 16B         | 9    |       |       | TES4A0 | 02     | TES6AA   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 14699         |        | XA112     | 35  |    |        |           |     |    |             |      |       |       | TPE0PA | 02     | TIPE00   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 17035         |        | XA112     | 36  |    | XA206  | 30        |     |    | 16B         | 9    |       |       | TOFRA0 | 07     | TES6AA   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 14690         |        | XA112     | 37  |    | XA340  | 64        |     |    | 16B         | 9    |       |       | TPE0PA | 01     | TIPE00   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 12593         |        | XA112     | 38  |    |        |           |     |    |             |      |       |       | TES5AA | 02     | TES5AA   | 00   | 1      | TQ2              | C1    |                     | 18A                | PRESET TE 03 DE    |        |
| 13423         |        | XA112     | 39  |    | XA305  | 01        |     |    | 16B         | 9    |       |       | TIPE00 | 01     | TIPE00   | 00   | 1      | TQ2              | C4    |                     | 19B                | INPUT PARITY ERR   |        |
| 12590         |        | XA112     | 40  |    | XA205  | 07        |     |    | 16B         | 9    |       |       | TES4A0 | 03     | TES5AA   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 04887         |        | XA112     | 41  |    | XA112  | 25        |     |    | 16B         | 9    |       |       | SPI001 | 24     | TI231A   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 10692         |        | XA112     | 42  |    | XA142  | 38        |     |    | 16B         | 9    |       |       | TDEBS0 | 01     | TES5AA   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 13623         |        | XA112     | 43  |    |        |           |     |    |             |      |       |       | TI231Q | 02     | TI231A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 01755         |        | XA112     | 44  |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 13619         |        | XA112     | 45  |    | XA113  | 52        |     |    | 16B         | 9    |       |       | TI231A | 01     | TI231A   | 00   | 1      | TQ2              | D3    |                     | 24B                | RESET- MASTER +C   |        |
| 13545         |        | XA112     | 46  |    | XA146  | 17        |     |    | 16B         | 9    |       |       | TI10C0 | 09     | TI10C0   | 00   | 1      | TQ2              | D2    |                     | 21A                | INPUT.ENABLE *-0   |        |
| 08759         |        | XA112     | 47  |    |        |           |     |    |             |      |       |       | T8C1BQ | 07     | TI3B1A   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 04886         |        | XA112     | 48  |    | XA112  | 41        |     |    | 16B         | 9    |       |       | SPI001 | 23     | TI10C0   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 13639         |        | XA112     | 49  |    | XA113  | 43        |     |    | 16B         | 9    |       |       | TI30BQ | 05     | TI3B1A   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 13534         |        | XA112     | 50  |    | XA116  | 79        |     |    | 16B         | 9    |       |       | TI10CA | 01     | TI10C0   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 13627         |        | XA112     | 51  |    | XA304  | 55        |     |    | 16B         | 9    |       |       | TI3B1A | 01     | TI3B1A   | 00   | 1      | TQ2              | D4    |                     | 27B                | I3 AND BYTE 1 F.   |        |
| 13564         |        | XA112     | 52  |    |        |           |     |    |             |      |       |       | TI131A | 02     | TI131A   | 00   | 1      | TQ2              | D1    |                     | 24A                | ADD ACKNOWLEDGE.   |        |
| 15677         |        | XA112     | 53  |    | XA115  | 59        |     |    | 16B         | 9    |       |       | TSTBRQ | 02     | TI313A   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 15847         |        | XA112     | 54  |    | XA325  | 24        |     |    | 16B         | 9    |       |       | TS03BQ | 01     | TI131A   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 13583         |        | XA112     | 55  |    | XA112  | 59        |     |    | 16B         | 9    |       |       | TI20CA | 03     | TI313A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 13562         |        | XA112     | 56  |    |        |           |     |    |             |      |       |       | TI1250 | 02     | TI131A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 13661         |        | XA112     | 57  |    |        |           |     |    |             |      |       |       | TI313A | 03     | TI313A   | 00   | 1      | TQ2              | E3    |                     | 30B                | S03 (ADD ACK+BTSP  |        |
| 01756         |        | XA112     | 58  |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 13584         |        | XA112     | 59  |    | XA116  | 77        |     |    | 16B         | 9    |       |       | TI20CA | 04     | TI314A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 14580         |        | XA112     | 60  |    | XA115  | 74        |     |    | 16B         | 9    |       |       | TM2M6A | 02     | TM2M6A   | 00   | 1      | TQ2              | E2    |                     | 28A                | STATE S23 . IO     |        |
| 12605         |        | XA112     | 61  |    | XA113  | 19        |     |    | 16B         | 9    |       |       | TE0BBQ | 02     | TI314A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 14585         |        | XA112     | 62  |    |        |           |     |    |             |      |       |       | TM2M60 | 03     | TM2M6A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 13662         |        | XA112     | 63  |    | XA114  | 68        |     |    | 16B         | 9    |       |       | TI314A | 01     | TI314A   | 00   | 1      | TQ2              | E4    |                     | 33B                | STATE I2*.EOB CO   |        |
| 04883         |        | XA112     | 64  |    | XA113  | 63        |     |    | 16B         | 9    |       |       | SPI001 | 20     | TM2M6A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 15695         |        | XA112     | 65  |    |        |           |     |    |             |      |       |       | TSTR1A | 02     | TSTR10   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 13646         |        | XA112     | 66  |    | XA114  | 61        |     |    | 16B         | 9    |       |       | TI311A | 02     | TI311A   | 00   | 1      | TQ2              | E1    |                     | 31A                | BOOTSTRAP 1-BOOT   |        |
| 01757         |        | XA112     | 67  |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 09175         |        | XA112     | 68  |    | XA207  | 50        |     |    | 16B         | 9    |       |       | T8ST1Q | 03     | TI311A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 15696         |        | XA112     | 69  |    | XA116  | 47        |     |    | 16B         | 9    |       |       | TSTR10 | 01     | TSTR10   | 00   | 1      | TQ2              | F3    |                     | 35A                | STROBE CLOCK-0     |        |
| 09195         |        | XA112     | 70  |    | XA108  | 46        |     |    | 16B         | 9    |       |       | TBST2A | 08     | TI311A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 04881         |        | XA112     | 71  |    | XA115  | 47        |     |    | 16B         | 9    |       |       | TS21BQ | 00M    | TS211A   | 01   | 1      | TQ2              | F2    |                     | 36A                | C10                |        |
| 07822         |        | XA112     | 72  |    | XA115  | 03        |     |    | 16B         | 9    |       |       | TS211A | 01     | TS211A   | 00   | 1      | TQ2              | F2    |                     | 34A                | C10                |        |
| 04908         |        | XA112     | 73  |    | XA115  | 42        |     |    | 16B         | 9    |       |       | TMINHP | 02     | TS211A   | 01   | 2      | TQ2              | F2    |                     | 36B                | C10                |        |
| 04882         |        | XA112     | 74  |    | XA112  | 64        |     |    | 16B         | 9    |       |       | SPI001 | 19     | TSTR10   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 07823         |        | XA112     | 75  |    |        |           |     |    |             |      |       |       | TINHAA | 02     | TINHAA   | 00   | 1      | TQ2              | F1    |                     | 37B                | C10                |        |
| 17266         |        | XA112     | 76  |    | XA108  | 50        |     |    | 16B         | 9    |       |       | T3100A | 03     | T03P10   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 04880         |        | XA112     | 77  |    |        |           |     |    |             |      |       |       | TINHAA | 02     | TINHAA   | 01   | 1      | TQ2              | F1    |                     | 38B                | C10                |        |
| 17081         |        | XA112     | 78  |    | XA110  | 73        |     |    | 16B         | 9    |       |       | T0031A | 02     | T03P10   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 04907         |        | XA112     | 79  |    | XA109  | 48        |     |    | 16B         | 9    |       |       | SPI002 | 09     | TINHAA   | 01   | 2      | TQ2              | F1    |                     | 39B                | C10                |        |
| 17102         |        | XA112     | 80  |    | XA315  | 61        |     |    | 16B         | 9    |       |       | T03P10 | 01     | T03P10   | 00   | 1      | TQ2              | F4    |                     | 39A                | ODD PARITY 0-31    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA113  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 22

| RECORD NUMBER                                     | FROM   |           |     | TO  |        |           | WIRE |     |             |      | SFC INST. WIRE | SIGNAL  | SFC NO | EQUATION | TERM | FACTORY | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|------|-----|-------------|------|----------------|---------|--------|----------|------|---------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SFC | PREFIX | CONNECTOR | PIN  | SFC | MULTI GROUP | CODE |                |         |        |          |      |         |                  |       |                     |                    |                    |        |
| 13761   |        | XA113     | 01  |     | XA113  | 14        |      |     | 16B         | 9    |                | TKBAAB  | 01     | TBSTIN   | 01   | 1       | TDD              | BN    |                     | 02B                |                    |        |
| 01758   |        | XA113     | 02  |     |        |           |      |     |             |      |                | GND     | 01     |          |      |         | TDD              |       |                     | 01B                |                    |        |
| 05006   |        | XA113     | 03  |     | XA120  | 37        |      |     | 16B         | 9    |                | SPI005  | 03     | TBSTIQ   | 01   | 1       | TDD              | BQ    |                     | 02A                |                    |        |
| 14188   |        | XA113     | 04  |     | XA113  | 60        |      |     | 16B         | 9    |                | TMRUAA4 | 03     | TBSTIP   | 01   | 1       | TDD              | BP    |                     | 04A                |                    |        |
| 09258   |        | XA113     | 05  |     | XA112  | 09        |      |     | 16B         | 9    |                | TBT100  | 01     | TBSTII   | 01   | 1       | TDD              | BI    |                     | 03B                |                    |        |
| 04950   |        | XA113     | 06  |     | XA112  | 75        |      |     | 16B         | 9    |                | TINHAA  | 01     | TMINHP   | 01   | 1       | TDD              | AP    |                     | 05A                |                    | C10    |
| 09173   |        | XA113     | 07  |     | XA112  | 08        |      |     | 16B         | 9    |                | TBSTIQ  | 01     | TBSTIQ   | 00   | 1       | TDD              | BQ    |                     | 03A                | PRESET INPUT BOO   |        |
| 04895   |        | XA113     | 08  |     | XA121  | 51        |      |     | 16B         | 9    |                | SP1001  | 32     | TMINHI   | 01   | 1       | TDD              | AI    |                     | 04A                |                    | C10    |
| 09166   |        | XA113     | 09  |     | XA136  | 42        |      |     | 16B         | 9    |                | TBSTIP  | 03     | TBSTIP   | 00   | 1       | TDD              | BP    |                     | 04B                | MASTER RESET BOO   |        |
| 04930   |        | XA113     | 10  |     | XA112  | 19        |      |     | 16B         | 9    |                | TS21BP  | 07     | TMINHN   | 01   | 1       | TDD              | AN    |                     | 07A                |                    | C10    |
| 07824   |        | XA113     | 11  |     | XA112  | 73        |      |     | 16B         | 9    |                | TMINHP  | 01     | TMINHP   | 00   | 1       | TDD              | AP    |                     | 05B                |                    | C10    |
| 00296   |        | XA113     | 12  |     |        |           |      |     |             |      |                | +5V     | 01     |          |      |         | TDD              |       |                     |                    |                    |        |
| 07825   |        | XA113     | 13  |     |        |           |      |     |             |      |                | TMINHQ  | 02     | TMINHQ   | 00   | 1       | TDD              | AQ    |                     | 06B                |                    | C10    |
| 13762   |        | XA113     | 14  |     | XA113  | 26        |      |     | 16B         | 9    |                | TKBAAB  | 02     | TE0BBN   | 01   | 1       | TDD              | DN    |                     | 09A                |                    |        |
| 04985   |        | XA113     | 15  |     | XA119  | 04        |      |     | 16B         | 9    |                | SPI004  | 20     | TMINHQ   | 01   | 1       | TDD              | AQ    |                     | 07B                |                    | C10    |
| 01759   |        | XA113     | 16  |     |        |           |      |     |             |      |                | GND     | 01     |          |      |         | TDD              |       |                     | 20B                |                    |        |
| 12610   |        | XA113     | 17  |     |        |           |      |     |             |      |                | TE0B2A  | 02     | TE0BBQ   | 01   | 1       | TDD              | DQ    |                     | 08B                |                    |        |
| 12598   |        | XA113     | 18  |     | XA108  | 24        |      |     | 16B         | 9    |                | TE0BA0  | 01     | TE0BBI   | 01   | 1       | TDD              | DI    |                     | 10A                |                    |        |
| 12606   |        | XA113     | 19  |     |        |           |      |     |             |      |                | TE0BBQ  | 03     | TE0BBQ   | 00   | 1       | TDD              | DQ    |                     | 09B                | PRESET INPUT EOB   |        |
| 14192   |        | XA113     | 20  |     | XA151  | 52        |      |     | 16B         | 9    |                | TMRUAA4 | 07     | TE0BBP   | 01   | 1       | TDD              | DP    |                     | 11A                |                    | 005    |
| 12603   |        | XA113     | 21  |     |        |           |      |     |             |      |                | TE0BBP  | 02     | TE0BBP   | 00   | 1       | TDD              | DP    |                     | 10B                |                    |        |
| 14191   |        | XA113     | 22  |     | XA113  | 20        |      |     | 16B         | 9    |                | TMRUAA4 | 06     | TBST2P   | 01   | 1       | TDD              | CP    |                     | 12A                |                    |        |
| 09201   |        | XA113     | 23  |     | XA141  | 50        |      |     | 16B         | 9    |                | TBST2P  | 03     | TBST2P   | 00   | 1       | TDD              | CP    |                     | 11B                | PRERESET BOOTSTR   |        |
| 09272   |        | XA113     | 24  |     |        |           |      |     |             |      |                | TBT200  | 02     | TBST2I   | 01   | 1       | TDD              | CI    |                     | 13A                |                    |        |
| 09208   |        | XA113     | 25  |     | XA146  | 23        |      |     | 16B         | 9    |                | TBST2Q  | 03     | TBST2Q   | 00   | 1       | TDD              | CO    |                     | 12B                | PRESET BOOTSTRAP   |        |
| 13763   |        | XA113     | 26  |     | XA113  | 30        |      |     | 16B         | 9    |                | TKBAAB  | 03     | TBST2N   | 01   | 1       | TDD              | CN    |                     | 14A                |                    |        |
| 04889   |        | XA113     | 27  |     | XA114  | 26        |      |     | 16B         | 9    |                | SPI001  | 26     | TBST2Q   | 01   | 1       | TDD              | CQ    |                     | 13B                |                    |        |
| 00297   |        | XA113     | 28  |     |        |           |      |     |             |      |                | +5V     | 01     |          |      |         | TDD              |       |                     |                    |                    |        |
| 16482   |        | XA113     | 29  |     |        |           |      |     |             |      |                | TS3EBP  | 03     | TI10BQ   | 01   | 1       | TDD              | FQ    |                     | 14B                |                    |        |
| 13764   |        | XA113     | 30  |     | XA113  | 46        |      |     | 16B         | 9    |                | TKBAAB  | 04     | TI10BN   | 01   | 1       | TDD              | FN    |                     | 15A                |                    |        |
| 13532   |        | XA113     | 31  |     | XA144  | 48        |      |     | 16B         | 9    |                | TI10BQ  | 08     | TI10BQ   | 00   | 1       | TDD              | FQ    |                     | 15B                | STATE I1 (INPUT)   |        |
| 01760   |        | XA113     | 32  |     |        |           |      |     |             |      |                | GND     | 01     |          |      |         | TDD              |       |                     | 21B                |                    |        |
| 13521   |        | XA113     | 33  |     | XA149  | 55        |      |     | 16B         | 9    |                | TI10BP  | 02     | TI10BP   | 00   | 1       | TDD              | FP    |                     | 16B                | STATE I1 (INPUT)   |        |
| 13548   |        | XA113     | 34  |     | XA206  | 04        |      |     | 16B         | 9    |                | TI1100  | 01     | TI10BI   | 01   | 1       | TDD              | FI    |                     | 16A                |                    |        |
| 13413   |        | XA113     | 35  |     |        |           |      |     |             |      |                | TIPEBP  | 05     | TIPEBP   | 00   | 1       | TDD              | EP    |                     | 17B                | RESET PARITY ERR   |        |
| 14190   |        | XA113     | 36  |     |        |           |      |     |             |      |                | TI126A  | 02     | TI10BP   | 01   | 1       | TDD              | FP    |                     | 17A                |                    | C05    |
| 13415   |        | XA113     | 37  |     | XA137  | 11        |      |     | 16B         | 9    |                | TIPEBQ  | 02     | TIPEBQ   | 00   | 1       | TDD              | EQ    |                     | 18B                | PARITY ERROR SET   | C10    |
| 13407   |        | XA113     | 38  |     | XA304  | 14        |      |     | 16B         | 9    |                | TIPEBA  | 01     | TIPEBP   | 01   | 1       | TDD              | EP    |                     | 18A                |                    |        |
| 13422   |        | XA113     | 39  |     |        |           |      |     |             |      |                | TIPEBA  | 02     | TIPEBP   | 01   | 1       | TDD              | EQ    |                     | 19B                |                    |        |
| 04871   |        | XA113     | 40  |     |        |           |      |     |             |      |                | KGN0CA  | 17     | TIPEBI   | 01   | 1       | TDD              | EI    |                     | 19A                |                    | B03    |
| 04910   |        | XA113     | 41  |     | XA114  | 40        |      |     | 16B         | 9    |                | SPI002  | 12     | TI30BQ   | 01   | 1       | TDD              | HQ    |                     | 22B                |                    | B03    |
| 04911   |        | XA113     | 42  |     |        |           |      |     |             |      |                | TS092A  | 04     | TIPEBN   | 01   | 1       | TDD              | EN    |                     | 20A                |                    | B03    |
| 13640   |        | XA113     | 43  |     | XA413  | 54        |      |     | 16B         | 9    |                | TI30BQ  | 06     | TI30BQ   | 00   | 1       | TDD              | HO    |                     | 23B                | STATE I3 (COMMAN   |        |
| 01761   |        | XA113     | 44  |     |        |           |      |     |             |      |                | GND     | 01     |          |      |         | TDD              |       |                     | 27A                |                    |        |
| 13635   |        | XA113     | 45  |     | XA122  | 60        |      |     | 16B         | 9    |                | TI30BP  | 05     | TI30BP   | 00   | 1       | TDD              | HP    |                     | 24B                | STATE I3 (COMMAN   |        |
| 13765   |        | XA113     | 46  |     | XA113  | 56        |      |     | 16B         | 9    |                | TKBAAB  | 05     | TI30BN   | 01   | 1       | TDD              | HN    |                     | 21A                |                    |        |
| 13567   |        | XA113     | 47  |     | XA112  | 10        |      |     | 16B         | 9    |                | TI20BP  | 01     | TI20BP   | 00   | 1       | TDD              | GP    |                     | 25B                | STATE I2 (OUTPUT   |        |
| 13644   |        | XA113     | 48  |     |        |           |      |     |             |      |                | TI3100  | 02     | TI30BI   | 01   | 1       | TDD              | HI    |                     | 22A                |                    |        |
| 13576   |        | XA113     | 49  |     | XA115  | 61        |      |     | 16B         | 9    |                | TI20BQ  | 03     | TI20BQ   | 00   | 1       | TDD              | GQ    |                     | 26B                | STATE I2 (OUTPUT   |        |
| 13666   |        | XA113     | 50  |     |        |           |      |     |             |      |                | TI321A  | 02     | TI30BP   | 01   | 1       | TDD              | HP    |                     | 23A                |                    |        |
| CONNECTOR (XA113) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |      |     |             |      |                |         |        |          |      |         |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA113  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 23

| RECORD NUMBER                                   | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND JOP | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|---------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                     |                    |        |
| 04885   |        | XA113     | 51  |      | XA112  | 48        |     |      |             | 16B  | 9     |       | SPI001  | 22     | TI20BQ   | 01   | 1      | TDD              | GQ    |                     | 27B                 |                    |        |
| 13620   |        | XA113     | 52  |      | XA339  | 22        |     |      |             | 16B  | 9     |       | TI231A  | 02     | TI20BP   | 01   | 1      | TDD              | GP    |                     | 24A                 |                    |        |
| 15706   |        | XA113     | 53  |      |        |           |     |      |             |      |       |       | TSTR9A  | 02     | TSTRBQ   | 01   | 1      | TDD              | KQ    |                     | 28B                 |                    |        |
| 13593   |        | XA113     | 54  |      | XA305  | 23        |     |      |             | 16B  | 9     |       | TI2100  | 01     | TI20BI   | 01   | 1      | TDD              | GI    |                     | 25A                 |                    |        |
| 15693   |        | XA113     | 55  |      |        |           |     |      |             |      |       |       | TSTRBQ  | 03     | TSTRBQ   | 00   | 1      | TDD              | KQ    |                     | 29B                 | STROBE F/F-SET     |        |
| 13766   |        | XA113     | 56  |      | XA217  | 60        |     |      |             | 16B  | 9     |       | TKBAAB  | 06     | TI20BN   | 01   | 1      | TDD              | GN    |                     | 26A                 |                    |        |
| 15690   |        | XA113     | 57  |      |        |           |     |      |             |      |       |       | TSTRBP  | 02     | TSTRBP   | 00   | 1      | TDD              | KP    |                     | 30B                 | STROBE F/F-RESET   |        |
| 01762   |        | XA113     | 58  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TDD              |       |                     | 40A                 |                    |        |
| 15623   |        | XA113     | 59  |      |        |           |     |      |             |      |       |       | TSN1BP  | 02     | TSN1BP   | 00   | 1      | TDD              | JP    |                     | 31B                 | PRESET             |        |
| 14189   |        | XA113     | 60  |      | XA113  | 22        |     |      |             | 16B  | 9     |       | TMRUAA4 | 04     | TSTRBN   | 01   | 1      | TDD              | KN    |                     | 28A                 | C05                |        |
| 15625   |        | XA113     | 61  |      | XA421  | 13        |     |      |             | 16B  | 9     |       | TSN1BQ  | 02     | TSN1BQ   | 00   | 1      | TDD              | JQ    |                     | 32B                 | PRESET INPUT       |        |
| 14746   |        | XA113     | 62  |      |        |           |     |      |             |      |       |       | TPGNDA  | 05     | TSTRBI   | 01   | 1      | TDD              | KI    |                     | 29A                 |                    |        |
| 04884   |        | XA113     | 63  |      | XA113  | 51        |     |      |             | 16B  | 9     |       | SPI001  | 21     | TSN1BQ   | 01   | 1      | TDD              | JQ    |                     | 33B                 |                    |        |
| 15700   |        | XA113     | 64  |      |        |           |     |      |             |      |       |       | TSTR2A  | 02     | TSTRBP   | 01   | 1      | TDD              | KP    |                     | 30A                 |                    |        |
| 04939   |        | XA113     | 65  |      | XA114  | 74        |     |      |             | 16B  | 9     |       | SPI003  | 08     | TKAMBQ   | 01   | 1      | TDD              | MQ    |                     | 34B                 |                    |        |
| 14059   |        | XA113     | 66  |      | XA135  | 48        |     |      |             | 16B  | 9     |       | TMC4AA  | 01     | TSN1BP   | 01   | 1      | TDD              | JP    |                     | 31A                 |                    |        |
| 01763   |        | XA113     | 67  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TDD              |       |                     | 40B                 |                    |        |
| 15628   |        | XA113     | 68  |      |        |           |     |      |             |      |       |       | TSN110  | 02     | TSN1BI   | 01   | 1      | TDD              | JI    |                     | 32A                 |                    |        |
| 20501   |        | XA113     | 69  |      |        |           |     |      |             |      |       | M     | TKAMPB  | 01     | TKAMPB   | 00   | 1      | TDD              | MP    |                     | 35A                 |                    |        |
| 10042   |        | XA113     | 70  |      |        |           |     |      |             |      |       |       | TCOSAA  | 06     | TSN1BN   | 01   | 1      | TDD              | JN    |                     | 33A                 |                    |        |
| 13751   |        | XA113     | 71  |      |        |           |     |      |             |      |       |       | TKAMSO  | 02     | TKAMBI   | 01   | 1      | TDD              | MI    |                     | 36A                 |                    |        |
| 20215   |        | XA113     | 72  |      | XA207  | 25        |     |      |             | 16B  | 9     |       | YSN2CTX | 02     | TKAMBN   | 01   | 1      | TDD              | MN    |                     | 34A                 |                    |        |
| 14425   |        | XA113     | 73  |      | XA113  | 75        |     |      |             | 16B  | 9     |       | TM00AA  | 01     | TKAMPB   | 01   | 1      | TDD              | MP    |                     | 36B                 |                    |        |
| 13749   |        | XA113     | 74  |      |        |           |     |      |             |      |       |       | TKAMBQ  | 03     | TKAMBQ   | 00   | 1      | TDD              | MQ    |                     | 35B                 |                    |        |
| 14426   |        | XA113     | 75  |      | XA317  | 68        |     |      |             | 16B  | 9     |       | TM00AA  | 02     | TPERBP   | 01   | 1      | TDD              | LP    |                     | 37B                 |                    |        |
| 14693   |        | XA113     | 76  |      |        |           |     |      |             |      |       |       | TPERBP  | 02     | TPERBP   | 00   | 1      | TDD              | LP    |                     | 37A                 |                    |        |
| 04879   |        | XA113     | 77  |      | XA112  | 74        |     |      |             | 16B  | 9     |       | SPI001  | 16     | TPERBI   | 01   | 1      | TDD              | LI    |                     | 38B                 | C10                |        |
| 14695   |        | XA113     | 78  |      |        |           |     |      |             |      |       |       | TPERBQ  | 02     | TPERBQ   | 00   | 1      | TDD              | LQ    |                     | 38A                 |                    |        |
| 04906   |        | XA113     | 79  |      | XA112  | 79        |     |      |             | 16B  | 9     |       | SPI002  | 08     | TPERBN   | 01   | 1      | TDD              | LN    |                     | 39B                 |                    |        |
| 14634   |        | XA113     | 80  |      |        |           |     |      |             |      |       |       | TM3NPA  | 03     | TPERBQ   | 01   | 1      | TDD              | LQ    |                     | 39A                 | D03                |        |
| 16951   |        | XA114     | 01  |      |        |           |     |      |             |      |       |       | TXC1BP  | 07     | TI23XA   | 01   | 1      | TS8              | A1    |                     | 02B                 |                    |        |
| 01764   |        | XA114     | 02  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TS8              |       |                     | 01A                 |                    |        |
| 00749   |        | XA114     | 03  |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      |        | TS8              |       |                     |                     |                    |        |
| 17011   |        | XA114     | 04  |      | XA305  | 40        |     |      |             | 16B  | 9     |       | TXC3BQ  | 07     | TI23XA   | 01   | 2      | TS8              | A1    |                     | 04A                 |                    |        |
| 13638   |        | XA114     | 05  |      | XA112  | 49        |     |      |             | 16B  | 9     |       | TI30BQ  | 04     | TI23XA   | 01   | 3      | TS8              | A1    |                     | 03B                 |                    |        |
| 10052   |        | XA114     | 06  |      | XA305  | 42        |     |      |             | 16B  | 9     |       | TCOSAB  | 10     | TI23XA   | 01   | 4      | TS8              | A1    |                     | 05A                 |                    |        |
| 16992   |        | XA114     | 07  |      | XA116  | 76        |     |      |             | 16B  | 9     |       | TXC2BQ  | 03     | TI23XA   | 01   | 5      | TS8              | A1    |                     | 03A                 |                    |        |
| 04949   |        | XA114     | 08  |      | XA119  | 08        |     |      |             | 16B  | 9     |       | SPI003  | 18     | TI23XA   | 01   | 6      | TS8              | A1    |                     | 06A                 | C10                |        |
| 00750   |        | XA114     | 09  |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      |        | TS8              |       |                     |                     |                    |        |
| 04929   |        | XA114     | 10  |      | XA109  | 34        |     |      |             | 16B  | 9     |       | SPI002  | 31     | TI23XA   | 01   | 7      | TS8              | A1    |                     | 07A                 | G01                |        |
| 13615   |        | XA114     | 11  |      | XA304  | 64        |     |      |             | 16B  | 9     |       | TI23XA  | 01     | TI23XA   | 00   | 1      | TS8              | A1    |                     | 05B                 | 13 ENABLE PULSE    |        |
| 00298   |        | XA114     | 12  |      |        |           |     |      |             |      |       |       | +5V     | 01     |          |      |        | TS8              |       |                     |                     |                    |        |
| 04894   |        | XA114     | 13  |      | XA113  | 08        |     |      |             | 16B  | 9     |       | SPI001  | 31     | TI23XA   | 01   | 8      | TS8              | A1    |                     | 06B                 |                    |        |
| 12575   |        | XA114     | 14  |      | XA114  | 60        |     |      |             | 16B  | 9     |       | TES3AA  | 01     | TI3100   | 01   | 1      | TS8              | B1    |                     | 09A                 |                    |        |
| 00751   |        | XA114     | 15  |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      |        | TS8              |       |                     |                     |                    |        |
| 01765   |        | XA114     | 16  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TS8              |       |                     | 21B                 |                    |        |
| 00752   |        | XA114     | 17  |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      |        | TS8              |       |                     |                     |                    |        |
| 16382   |        | XA114     | 18  |      | XA114  | 66        |     |      |             | 16B  | 9     |       | TS231A  | 01     | TI3100   | 01   | 2      | TS8              | B1    |                     | 10A                 |                    |        |
| CONNECTOR XA114 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |         |        |          |      |        |                  |       |                     |                     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA114  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 24

| RECORD NUMBER | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | ORAP | LOAD OR POWER PLANS | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|------|------|------------------|------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | SH 72 | PREFIX | CONNECTOR | PIN | SH 72 | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |      |                  |      |                     |                    |                    |        |
| 13664         |        | XA114     | 19  |       |        |           |     |       |             |      |       |       | TI314A | 03     | TI3100   | 01   | 3    | TS8              | B1   |                     | 09B                |                    |        |
| 13659         |        | XA114     | 20  |       |        | XA114     | 55  |       |             | 16B  | 9     |       | TI313A | 01     | TI3100   | 01   | 4    | TS8              | B1   |                     | 11A                |                    |        |
| 00753         |        | XA114     | 21  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 16008         |        | XA114     | 22  |       |        | XA114     | 64  |       |             | 16B  | 9     |       | TS1ABA | 01     | TI3100   | 01   | 5    | TS8              | B1   |                     | 12A                |                    |        |
| 13643         |        | XA114     | 23  |       |        | XA113     | 48  |       |             | 16B  | 9     |       | TI3100 | 01     | TI3100   | 00   | 1    | TS8              | B1   |                     | 11B                | STATE I3 ORED DA   |        |
| 13648         |        | XA114     | 24  |       |        | XA124     | 49  |       |             | 16B  | 9     |       | TI311A | 04     | TI3100   | 01   | 6    | TS8              | B1   |                     | 13A                |                    |        |
| 13632         |        | XA114     | 25  |       |        | XA113     | 45  |       |             | 16B  | 9     |       | TI30BP | 04     | TI3100   | 01   | 7    | TS8              | B1   |                     | 12B                |                    |        |
| 04890         |        | XA114     | 26  |       |        | XA116     | 23  |       |             | 16B  | 9     |       | SPI001 | 27     | TI3100   | 01   | 8    | TS8              | B1   |                     | 14A                |                    |        |
| 00754         |        | XA114     | 27  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 00299         |        | XA114     | 28  |       |        |           |     |       |             |      |       |       | +5V    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 00755         |        | XA114     | 29  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 16092         |        | XA114     | 30  |       |        | XA114     | 77  |       |             | 16B  | 9     |       | TS13BP | 08     | TKWX1A   | 01   | 1    | TS8              | C1   |                     | 15A                |                    |        |
| 14335         |        | XA114     | 31  |       |        | XA206     | 14  |       |             | 16B  | 9     |       | TMS3BQ | 04     | TKWX1A   | 01   | 2    | TS8              | C1   |                     | 15B                |                    |        |
| 01766         |        | XA114     | 32  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |      | TS8              |      |                     |                    | 27A                |        |
| 00756         |        | XA114     | 33  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 15892         |        | XA114     | 34  |       |        | XA115     | 26  |       |             | 16B  | 9     |       | TS05BP | 05     | TKWX1A   | 01   | 3    | TS8              | C1   |                     | 16A                |                    |        |
| 13917         |        | XA114     | 35  |       |        |           |     |       |             |      |       |       | TKWX1A | 03     | TKWX1A   | 00   | 1    | TS8              | C1   |                     | 17B                | KEYWORD XFER CON   |        |
| 04947         |        | XA114     | 36  |       |        | XA114     | 48  |       |             | 16B  | 9     |       | SPI003 | 16     | TKWX1A   | 01   | 4    | TS8              | C1   |                     | 17A                |                    |        |
| 04870         |        | XA114     | 37  |       |        | XA116     | 40  |       |             | 16B  | 9     |       | SPI001 | 07     | TKWX1A   | 01   | 5    | TS8              | C1   |                     | 18B                | 803                |        |
| 14494         |        | XA114     | 38  |       |        |           |     |       |             |      |       |       | TM02BQ | 07     | TKWX1A   | 01   | 6    | TS8              | C1   |                     | 18A                |                    |        |
| 00757         |        | XA114     | 39  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 04912         |        | XA114     | 40  |       |        | XA114     | 52  |       |             | 16B  | 9     |       | SPI002 | 14     | TKWX1A   | 01   | 7    | TS8              | C1   |                     | 19A                | C10                |        |
| 00758         |        | XA114     | 41  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 09134         |        | XA114     | 42  |       |        |           |     |       |             |      |       |       | TBRSTQ | 07     | TKWX1A   | 01   | 8    | TS8              | C1   |                     | 20A                |                    |        |
| 05042         |        | XA114     | 43  |       |        | XA330     | 24  |       |             | 16B  | 9     |       | SPI007 | 04     |          |      |      | TS8              | D1   |                     | 23B                |                    |        |
| 01767         |        | XA114     | 44  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |      | TS8              |      |                     |                    | 40A                |        |
| 00759         |        | XA114     | 45  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 04991         |        | XA114     | 46  |       |        | XA114     | 73  |       |             | 16B  | 9     |       | SPI004 | 26     |          |      |      | TS8              | D1   |                     | 21A                |                    |        |
| 07826         |        | XA114     | 47  |       |        |           |     |       |             |      |       |       | SPO    | 01     |          |      |      | TS8              | D1   |                     | 25B                |                    |        |
| 04948         |        | XA114     | 48  |       |        | XA114     | 08  |       |             | 16B  | 9     |       | SPI003 | 17     |          |      |      | TS8              | D1   |                     | 22A                |                    |        |
| 05055         |        | XA114     | 49  |       |        | XA120     | 48  |       |             | 16B  | 9     |       | SPI008 | 03     |          |      |      | TS8              | D1   |                     | 26B                |                    |        |
| 05024         |        | XA114     | 50  |       |        | XA120     | 39  |       |             | 16B  | 9     |       | SPI006 | 01     |          |      |      | TS8              | D1   |                     | 23A                |                    |        |
| 00760         |        | XA114     | 51  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 04914         |        | XA114     | 52  |       |        | XA116     | 61  |       |             | 16B  | 9     |       | SPI002 | 16     |          |      |      | TS8              | D1   |                     | 24A                |                    |        |
| 00761         |        | XA114     | 53  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 04876         |        | XA114     | 54  |       |        | XA114     | 70  |       |             | 16B  | 9     |       | SPI001 | 13     |          |      |      | TS8              | D1   |                     | 25A                |                    |        |
| 13660         |        | XA114     | 55  |       |        | XA112     | 57  |       |             | 16B  | 9     |       | TI313A | 02     | TCMD40   | 01   | 1    | TS8              | E1   |                     | 29B                |                    |        |
| 05008         |        | XA114     | 56  |       |        | XA317     | 73  |       |             | 16B  | 9     |       | SPI005 | 05     |          |      |      | TS8              | D1   |                     | 26A                |                    |        |
| 00762         |        | XA114     | 57  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 01768         |        | XA114     | 58  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 09754         |        | XA114     | 59  |       |        | XA238     | 68  |       |             | 16B  | 9     |       | TCMD40 | 01     | TCMD40   | 00   | 1    | TS8              | E1   |                     | 31B                | ORED DATA          |        |
| 12576         |        | XA114     | 60  |       |        | XA205     | 01  |       |             | 16B  | 9     |       | TES3AA | 02     | TCMD40   | 01   | 2    | TS8              | E1   |                     | 28A                |                    |        |
| 13647         |        | XA114     | 61  |       |        | XA114     | 24  |       |             | 16B  | 9     |       | TI311A | 03     | TCMD40   | 01   | 3    | TS8              | E1   |                     | 32B                |                    |        |
| 09738         |        | XA114     | 62  |       |        | XA238     | 59  |       |             | 16B  | 9     |       | TCMDBP | 01     | TCMD40   | 01   | 4    | TS8              | E1   |                     | 29A                |                    |        |
| 00763         |        | XA114     | 63  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 16009         |        | XA114     | 64  |       |        | XA137     | 79  |       |             | 16B  | 9     |       | TS1ABA | 02     | TCMD40   | 01   | 5    | TS8              | E1   |                     | 30A                |                    |        |
| 00764         |        | XA114     | 65  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 16383         |        | XA114     | 66  |       |        | XA248     | 10  |       |             | 16B  | 9     |       | TS231A | 02     | TCMD40   | 01   | 6    | TS8              | E1   |                     | 31A                |                    |        |
| 01769         |        | XA114     | 67  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |      | TS8              |      |                     |                    |                    |        |
| 13663         |        | XA114     | 68  |       |        | XA114     | 19  |       |             | 16B  | 9     |       | TI314A | 02     | TCMD40   | 01   | 7    | TS8              | E1   |                     | 32A                |                    |        |

CONNECTOR (XA114) CONTINUED ON THE NEXT PAGE \*\*\*\*\*

DRAWING NUMBER 149019-880  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

CONNECTOR

UNIT ASSEMBLY NO. 149019  
 FILE IDENT T39BIUX2

REV G INDEX XA114  
 DATE 09-03-82 PAGE 25

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00765   |        | XA114     | 69  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04877   |        | XA114     | 70  |        | XA114     | 75  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16040   |        | XA114     | 71  |        | XA343     | 42  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15108   |        | XA114     | 72  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04992   |        | XA114     | 73  |        | XA215     | 62  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04940   |        | XA114     | 74  |        | XA118     | 74  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04878   |        | XA114     | 75  |        | XA113     | 77  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 11364   |        | XA114     | 76  |        | XA109     | 08  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16093   |        | XA114     | 77  |        | XA206     | 72  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    | F01    |
| 04905   |        | XA114     | 78  |        | XA113     | 79  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13875   |        | XA114     | 79  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00766   |        | XA114     | 80  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15694   |        | XA115     | 01  |        | XA112     | 65  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01770   |        | XA115     | 02  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04897   |        | XA115     | 03  |        | XA116     | 18  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    | C10    |
| 13693   |        | XA115     | 04  |        | XA116     | 03  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 09690   |        | XA115     | 05  |        | XA122     | 49  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13834   |        | XA115     | 06  |        | XA116     | 07  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04928   |        | XA115     | 07  |        | XA114     | 10  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    | C10    |
| 16483   |        | XA115     | 08  |        | XA250     | 13  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07827   |        | XA115     | 09  |        | XA116     | 26  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    | C10    |
| 09869   |        | XA115     | 10  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14363   |        | XA115     | 11  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00300   |        | XA115     | 12  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14365   |        | XA115     | 13  |        | XA206     | 13  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13879   |        | XA115     | 14  |        | XA138     | 25  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14367   |        | XA115     | 15  |        | XA116     | 11  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01771   |        | XA115     | 16  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04893   |        | XA115     | 17  |        | XA114     | 13  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14467   |        | XA115     | 18  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13897   |        | XA115     | 19  |        | XA320     | 04  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13876   |        | XA115     | 20  |        | XA205     | 41  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13893   |        | XA115     | 21  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16514   |        | XA115     | 22  |        | XA233     | 47  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15830   |        | XA115     | 23  |        | XA127     | 17  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16091   |        | XA115     | 24  |        | XA114     | 30  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 09161   |        | XA115     | 25  |        | XA124     | 50  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    | D05    |
| 15893   |        | XA115     | 26  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13920   |        | XA115     | 27  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00301   |        | XA115     | 28  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14156   |        | XA115     | 29  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13951   |        | XA115     | 30  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14154   |        | XA115     | 31  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01772   |        | XA115     | 32  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14151   |        | XA115     | 33  |        | XA418     | 71  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16313   |        | XA115     | 34  |        | XA144     | 19  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    | D05    |
| 03772   |        | XA115     | 35  |        | XA203     | 01  |             |      | 16B   | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13456   |        | XA115     | 36  |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    | D05    |
| CONNECTOR XA115 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA115  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 26

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE        |      |       |        | SPEC INST MISC | SIGNAL | FREQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR  | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------------|------|-------|--------|----------------|--------|---------|----------|------|------|------------------|-------|---------------------|---------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PLT | PREFIX | CONNECTOR | PIN | PLT | MULTI GROUP | CODE | COLOR | IDENT  |                |        |         |          |      |      |                  |       |                     |                     |                    |        |
| 09194         |        | XA115     | 37                              |     |        |           |     |     |             |      |       |        | TMPE2A         | 02     | TMPEI0  | 01       | 2    | TQ2  | C4               |       | 18B                 |                     |                    |        |
| 13946         |        | XA115     | 38                              |     |        |           |     |     |             |      |       | TK070A | 02             | TK070A | 00      | 1        | TQ2  | C1   |                  |       | 18A                 | (S0+S21) INPUT PC10 |                    |        |
| 14161         |        | XA115     | 39                              |     |        |           |     |     |             |      |       | TMPEI0 | 02             | TMPEI0 | 00      | 1        | TQ2  | C4   |                  |       | 19B                 | CTS PE INH + BOO    |                    |        |
| 13948         |        | XA115     | 40                              |     |        |           |     |     |             |      |       | TK07BP | 02             | TK070A | 01      | 1        | TQ2  | C1   |                  |       | 19A                 |                     | C10                |        |
| 14176         |        | XA115     | 41                              |     |        |           |     |     |             |      |       | TMRMT0 | 02             | TMRMTA | 01      | 1        | TQ2  | D3   |                  |       | 22B                 |                     |                    |        |
| 13416         |        | XA115     | 42                              |     | XA137  | 13        |     |     |             | 16B  | 9     |        | TMINHP         | 03     | TK070A  | 01       | 2    | TQ2  | C1               |       | 20A                 |                     | C10                |        |
| 04874         |        | XA115     | 43                              |     | XA114  | 54        |     |     |             | 16B  | 9     |        | SPI001         | 11     | TMPMTA  | 01       | 2    | TQ2  | D3               |       | 23B                 |                     | C10                |        |
| 01773         |        | XA115     | 44                              |     |        |           |     |     |             |      |       | GND    | 01             |        |         |          | TQ2  |      |                  |       | 21B                 |                     |                    |        |
| 14174         |        | XA115     | 45                              |     |        |           |     |     |             |      |       | TMRMTA | 02             | TMRMTA | 00      | 1        | TQ2  | D3   |                  |       | 24B                 | MASTER RESET + M    |                    |        |
| 14170         |        | XA115     | 46                              |     |        |           |     |     |             |      |       | TMRITA | 02             | TMRITA | 00      | 1        | TQ2  | D2   |                  |       | 21A                 | MASTER RESET + I    |                    |        |
| 04913         |        | XA115     | 47                              |     | XA136  | 49        |     |     |             | 16B  | 9     |        | TS21BQ         | 01     | TK160A  | 01       | 1    | TQ2  | D4               |       | 25B                 |                     | C10                |        |
| 04873         |        | XA115     | 48                              |     | XA115  | 43        |     |     |             | 16B  | 9     |        | SPI001         | 10     | TMRITA  | 01       | 1    | TQ2  | D2               |       | 22A                 |                     |                    |        |
| 04875         |        | XA115     | 49                              |     | XA113  | 13        |     |     |             | 16B  | 9     |        | TMINHQ         | 01     | TK160A  | 01       | 2    | TQ2  | D4               |       | 26B                 |                     | C10                |        |
| 14172         |        | XA115     | 50                              |     |        |           |     |     |             |      |       | TMRITO | 02             | TMRITA | 01      | 2        | TQ2  | D2   |                  |       | 23A                 |                     |                    |        |
| 07828         |        | XA115     | 51                              |     |        |           |     |     |             |      |       | TK160A | 02             | TK160A | 00      | 1        | TQ2  | D4   |                  |       | 27B                 |                     | C10                |        |
| 14168         |        | XA115     | 52                              |     |        |           |     |     |             |      |       | TMRCAA | 03             | TMRCAA | 00      | 1        | TQ2  | D1   |                  |       | 24A                 | MONITER REG TO T    |                    |        |
| 16036         |        | XA115     | 53                              |     | XA144  | 14        |     |     |             | 16B  | 9     |        | TS1070         | 01     | TSB17A  | 01       | 1    | TQ2  | E3               |       | 28B                 |                     |                    |        |
| 16350         |        | XA115     | 54                              |     | XA248  | 08        |     |     |             | 16B  | 9     |        | TS22BQ         | 02     | TMRCAA  | 01       | 1    | TQ2  | D1               |       | 25A                 |                     |                    |        |
| 09147         |        | XA115     | 55                              |     | XA139  | 42        |     |     |             | 16B  | 9     |        | TBR500         | 04     | TSB17A  | 01       | 2    | TQ2  | E3               |       | 29B                 |                     |                    |        |
| 13477         |        | XA115     | 56                              |     | XA205  | 78        |     |     |             | 16B  | 9     |        | TITR10         | 01     | TMRCAA  | 01       | 2    | TQ2  | D1               |       | 26A                 |                     |                    |        |
| 15621         |        | XA115     | 57                              |     |        |           |     |     |             |      |       | TSB17A | 02             | TSB17A | 00      | 1        | TQ2  | E3   |                  |       | 30B                 | S1+S7+S15+S17+S2    |                    |        |
| 01774         |        | XA115     | 58                              |     |        |           |     |     |             |      |       | GND    | 01             |        |         |          | TQ2  |      |                  |       | 27A                 |                     |                    |        |
| 15678         |        | XA115     | 59                              |     | XA148  | 55        |     |     |             | 16B  | 9     |        | TSTBRQ         | 03     | TSTB3A  | 01       | 1    | TQ2  | E4               |       | 31B                 |                     |                    |        |
| 15429         |        | XA115     | 60                              |     | XA205  | 55        |     |     |             | 16B  | 9     |        | TRTC0A         | 01     | TRTC0A  | 00       | 1    | TQ2  | E2               |       | 28A                 | REAL TIME CLOCKO    |                    |        |
| 13577         |        | XA115     | 61                              |     | XA128  | 79        |     |     |             | 16B  | 9     |        | T120BQ         | 04     | TSTB3A  | 01       | 2    | TQ2  | E4               |       | 32B                 |                     |                    |        |
| 10606         |        | XA115     | 62                              |     | XA112  | 11        |     |     |             | 16B  | 9     |        | TDA3B0         | 04     | TRTC0A  | 01       | 1    | TQ2  | E2               |       | 29A                 | REQ 7               |                    |        |
| 15687         |        | XA115     | 63                              |     | XA122  | 56        |     |     |             | 16B  | 9     |        | TSTB2A         | 01     | TSTB3A  | 00       | 1    | TQ2  | E4               |       | 33B                 | STOP BURST FF ON    |                    |        |
| 09685         |        | XA115     | 64                              |     | XA215  | 66        |     |     |             | 16B  | 9     |        | TCSCCO         | 05     | TRTC0A  | 01       | 2    | TQ2  | E2               |       | 30A                 |                     |                    |        |
| 08384         |        | XA115     | 65                              |     | XA315  | 62        |     |     |             | 16B  | 9     |        | TADABP         | 01     | TKAMS0  | 01       | 1    | TQ2  | F3               |       | 34B                 |                     |                    |        |
| 15316         |        | XA115     | 66                              |     | XA345  | 61        |     |     |             | 16B  | 9     |        | TRQBR0         | 01     | TRQBR0  | 00       | 1    | TQ2  | E1               |       | 31A                 | INF + BURST         |                    |        |
| 01775         |        | XA115     | 67                              |     |        |           |     |     |             |      |       | GND    | 01             |        |         |          | TQ2  |      |                  |       | 40A                 |                     |                    |        |
| 09138         |        | XA115     | 68                              |     | XA134  | 53        |     |     |             | 16B  | 9     |        | TBR5UA         | 04     | TRQBR0  | 01       | 1    | TQ2  | E1               |       | 32A                 |                     |                    |        |
| 13750         |        | XA115     | 69                              |     | XA113  | 71        |     |     |             | 16B  | 9     |        | TKAMS0         | 01     | TKAMS0  | 00       | 1    | TQ2  | F3               |       | 35A                 | OSC . ORED DATA     |                    |        |
| 15288         |        | XA115     | 70                              |     | XA205  | 60        |     |     |             | 16B  | 9     |        | TREQBA         | 01     | TRQBR0  | 01       | 2    | TQ2  | E1               |       | 33A                 |                     |                    |        |
| 15703         |        | XA115     | 71                              |     | XA205  | 57        |     |     |             | 16B  | 9     |        | TSTR80         | 01     | TSTR2A  | 01       | 1    | TQ2  | F2               |       | 36A                 |                     |                    |        |
| 15699         |        | XA115     | 72                              |     | XA113  | 64        |     |     |             | 16B  | 9     |        | TSTR2A         | 01     | TSTR2A  | 00       | 1    | TQ2  | F2               |       | 34A                 | OSC*.C1.C2          |                    |        |
| 10051         |        | XA115     | 73                              |     | XA114  | 06        |     |     |             | 16B  | 9     |        | TC0SAB         | 09     | TSTR2A  | 01       | 2    | TQ2  | F2               |       | 36B                 |                     |                    |        |
| 14581         |        | XA115     | 74                              |     | XA350  | 42        |     |     |             | 16B  | 9     |        | TM2M6A         | 03     | TKAMS0  | 01       | 2    | TQ2  | F3               |       | 35B                 |                     |                    |        |
| 09270         |        | XA115     | 75                              |     |        |           |     |     |             |      |       | TBT13A | 02             | TBT13A | 00      | 1        | TQ2  | F1   |                  |       | 37B                 | STROBE CLOCK-A      |                    |        |
| 13484         |        | XA115     | 76                              |     | XA144  | 69        |     |     |             | 16B  | 9     |        | TITT0A         | 01     | TITT00  | 01       | 1    | TQ2  | F4               |       | 37A                 |                     |                    |        |
| 15858         |        | XA115     | 77                              |     | XA339  | 54        |     |     |             | 16B  | 9     |        | TS0300         | 01     | TBT13A  | 01       | 1    | TQ2  | F1               |       | 38B                 |                     |                    |        |
| 13453         |        | XA115     | 78                              |     | XA319  | 79        |     |     |             | 16B  | 9     |        | TITMRP         | 04     | TITT00  | 01       | 2    | TQ2  | F4               |       | 38A                 |                     |                    |        |
| 08734         |        | XA115     | 79                              |     | XA137  | 24        |     |     |             | 16B  | 9     |        | TBB7A0         | 01     | TBT13A  | 01       | 2    | TQ2  | F1               |       | 39B                 |                     |                    |        |
| 13487         |        | XA115     | 80                              |     |        |           |     |     |             |      |       | TITT00 | 02             | TITT00 | 00      | 1        | TQ2  | F4   |                  |       | 39A                 | LATCH/RESET COND    |                    |        |
| 13756         |        | XA116     | 01                              |     |        |           |     |     |             |      |       | TKA03A | 05             | TKA03A | 00      | 1        | TQ2  | A2   |                  |       | 02B                 |                     |                    |        |
| 01776         |        | XA116     | 02                              |     |        |           |     |     |             |      |       | GND    | 01             |        |         |          | TQ2  |      |                  |       | 01A                 |                     |                    |        |
| 13694         |        | XA116     | 03                              |     | XA116  | 05        |     |     |             | 16B  | 9     |        | TKAABB         | 15     | TKA46A  | 01       | 1    | TQ2  | A3               |       | 02A                 |                     |                    |        |
| 13832         |        | XA116     | 04                              |     | XA122  | 07        |     |     |             | 16B  | 9     |        | TKC030         | 01     | TKA03A  | 01       | 1    | TQ2  | A2               |       | 04A                 |                     |                    |        |
| CONNECTOR     |        | XA116     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |             |      |       |        |                |        |         |          |      |      |                  |       |                     |                     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA116  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 27

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |             |                  |       |                     |                    |                    |        |
| 13695   |        | XA116     | 05  |        |           |     |             |      |       |       |        | TKAABB | 16       | TKA03A      | 01               | 2     | TQ2                 | A2                 |                    | 03B    |
| 13949   |        | XA116     | 06  |        |           |     |             |      |       |       |        | TK0810 | 02       | TK0810      | 00               | 1     | TQ2                 | A1                 |                    | 05A    |
| 13835   |        | XA116     | 07  |        |           |     |             |      |       |       |        | TKC460 | 02       | TKA46A      | 01               | 2     | TQ2                 | A3                 |                    | 03A    |
| 09193   |        | XA116     | 08  |        | XA112     | 70  |             |      |       |       |        | TBST2A | 06       | TK0810      | 01               | 1     | TQ2                 | A1                 |                    | 06A    |
| 13757   |        | XA116     | 09  |        | XA442     | 30  |             |      |       |       |        | TKA46A | 01       | TKA46A      | 00               | 1     | TQ2                 | A3                 |                    | 04B    |
| 16039   |        | XA116     | 10  |        |           |     |             |      |       |       |        | SPI001 | 36       | TK0810      | 01               | 2     | TQ2                 | A1                 |                    | 07A    |
| 14368   |        | XA116     | 11  |        |           |     |             |      |       |       |        | TMTDWS | 02       | TMTDWR      | 01               | 1     | TQ2                 | A4                 |                    | 05B    |
| 00302   |        | XA116     | 12  |        |           |     |             |      |       |       |        | +5V    | 01       |             |                  |       | TQ2                 |                    |                    |        |
| 15736   |        | XA116     | 13  |        | XA207     | 61  |             |      |       |       |        | TS00BP | 01       | TMTDWR      | 01               | 2     | TQ2                 | A4                 |                    | 06B    |
| 13843   |        | XA116     | 14  |        |           |     |             |      |       |       |        | TKDAA0 | 08       | TKDAA0      | 00               | 1     | TQ2                 | B2                 |                    | 09A    |
| 14364   |        | XA116     | 15  |        | XA115     | 13  |             |      |       |       |        | TMTDWR | 01       | TMTDWR      | 00               | 1     | TQ2                 | A4                 |                    | 07B    |
| 01777   |        | XA116     | 16  |        |           |     |             |      |       |       |        | GND    | 01       |             |                  |       | TQ2                 |                    |                    | 01B    |
| 04926   |        | XA116     | 17  |        | XA137     | 41  |             |      |       |       |        | TBST20 | 025      | TMPE2A      | 01               | 1     | TQ2                 | B3                 |                    | 08B    |
| 16310   |        | XA116     | 18  |        |           |     |             |      |       |       |        | TS21IA | 03       | TKDAA0      | 01               | 1     | TQ2                 | B2                 |                    | 10A    |
| 04892   |        | XA116     | 19  |        |           |     |             |      |       |       |        | TS08BP | 04       | TMPE2A      | 01               | 2     | TQ2                 | B3                 |                    | 09B    |
| 13945   |        | XA116     | 20  |        | XA137     | 15  |             |      |       |       |        | TK080A | 01       | TKDAA0      | 01               | 2     | TQ2                 | B2                 |                    | 11A    |
| 07829   |        | XA116     | 21  |        | XA115     | 37  |             |      |       |       |        | TMPE2A | 01       | TMPE2A      | 00               | 1     | TQ2                 | B3                 |                    | 10B    |
| 13849   |        | XA116     | 22  |        |           |     |             |      |       |       |        | TKMBCA | 02       | TKMBCA      | 00               | 1     | TQ2                 | B1                 |                    | 12A    |
| 04891   |        | XA116     | 23  |        | XA115     | 17  |             |      |       |       |        | SPI001 | 28       |             | 01               | 1     | TQ2                 | B4                 |                    | 11B    |
| 13856   |        | XA116     | 24  |        |           |     |             |      |       |       |        | TKMEB0 | 02       | TKMBCA      | 01               | 1     | TQ2                 | B1                 |                    | 13A    |
| 04927   |        | XA116     | 25  |        | XA115     | 07  |             |      |       |       |        | SPI002 | 29       |             | 01               | 2     | TQ2                 | B4                 |                    | 12B    |
| 16312   |        | XA116     | 26  |        | XA319     | 65  |             |      |       |       |        | TS21I0 | 001      | TKMBCA      | 01               | 2     | TQ2                 | B1                 |                    | 14A    |
| 07830   |        | XA116     | 27  |        |           |     |             |      |       |       |        | SPO    | 01       |             | 00               | 1     | TQ2                 | B4                 |                    | 13B    |
| 00303   |        | XA116     | 28  |        |           |     |             |      |       |       |        | +5V    | 01       |             |                  |       | TQ2                 |                    |                    |        |
| 05088   |        | XA116     | 29  |        | XA118     | 31  |             |      |       |       |        | SPI009 | 23       |             | 01               | 1     | TQ2                 | C3                 |                    | 14B    |
| 07831   |        | XA116     | 30  |        | XA147     | 40  |             |      |       |       |        | TMOS1A | 01       | TMOS1A      | 00               | 1     | TQ2                 | C2                 |                    | 15A    |
| 04921   |        | XA116     | 31  |        | XA118     | 33  |             |      |       |       |        | SPI002 | 23       |             | 01               | 2     | TQ2                 | C3                 |                    | 15B    |
| 01778   |        | XA116     | 32  |        |           |     |             |      |       |       |        | GND    | 01       |             |                  |       | TQ2                 |                    |                    | 20B    |
| 07832   |        | XA116     | 33  |        |           |     |             |      |       |       |        | SPO    | 01       |             | 00               | 1     | TQ2                 | C3                 |                    | 16B    |
| 04922   |        | XA116     | 34  |        | XA332     | 11  |             |      |       |       |        | TMT08Q | 00M      | TMOS1A      | 01               | 1     | TQ2                 | C2                 |                    | 16A    |
| 05086   |        | XA116     | 35  |        | XA116     | 29  |             |      |       |       |        | SPI009 | 21       |             | 01               | 1     | TQ2                 | C4                 |                    | 17B    |
| 05087   |        | XA116     | 36  |        |           |     |             |      |       |       |        | TS21C0 | 07       | TMOS1A      | 01               | 2     | TQ2                 | C2                 |                    | 17A    |
| 04920   |        | XA116     | 37  |        | XA116     | 31  |             |      |       |       |        | SPI002 | 22       |             | 01               | 2     | TQ2                 | C4                 |                    | 18B    |
| 07833   |        | XA116     | 38  |        |           |     |             |      |       |       |        | SPO    | 01       |             | 00               | 1     | TQ2                 | C1                 |                    | 18A    |
| 07834   |        | XA116     | 39  |        |           |     |             |      |       |       |        | SPO    | 01       |             | 00               | 1     | TQ2                 | C4                 |                    | 19B    |
| 04872   |        | XA116     | 40  |        | XA115     | 48  |             |      |       |       |        | SPI001 | 09       |             | 01               | 1     | TQ2                 | C1                 |                    | 19A    |
| 05085   |        | XA116     | 41  |        | XA116     | 35  |             |      |       |       |        | SPI009 | 20       |             | 01               | 1     | TQ2                 | D3                 |                    | 22B    |
| 04918   |        | XA116     | 42  |        | XA116     | 43  |             |      |       |       |        | SPI002 | 20       |             | 01               | 2     | TQ2                 | C1                 |                    | 20A    |
| 04919   |        | XA116     | 43  |        | XA116     | 37  |             |      |       |       |        | SPI002 | 21       |             | 01               | 2     | TQ2                 | D3                 |                    | 23B    |
| 01779   |        | XA116     | 44  |        |           |     |             |      |       |       |        | GND    | 01       |             |                  |       | TQ2                 |                    |                    | 21B    |
| 07835   |        | XA116     | 45  |        |           |     |             |      |       |       |        | SPO    | 01       |             | 00               | 1     | TQ2                 | D3                 |                    | 24B    |
| 09703   |        | XA116     | 46  |        | XA128     | 34  |             |      |       |       |        | TC023A | 01       | TC023A      | 00               | 1     | TQ2                 | D2                 |                    | 21A    |
| 15697   |        | XA116     | 47  |        | XA116     | 50  |             |      |       |       |        | TSTR10 | 02       | TC024A      | 01               | 1     | TQ2                 | D4                 |                    | 25B    |
| 16194   |        | XA116     | 48  |        |           |     |             |      |       |       |        | TS16BQ | 09       | TC023A      | 01               | 1     | TQ2                 | D2                 |                    | 22A    |
| 16239   |        | XA116     | 49  |        | XA325     | 49  |             |      |       |       |        | TS18BQ | 01       | TC024A      | 01               | 2     | TQ2                 | D4                 |                    | 26B    |
| 15698   |        | XA116     | 50  |        |           |     |             |      |       |       |        | TSTR10 | 03       | TC023A      | 01               | 2     | TQ2                 | D2                 |                    | 23A    |
| 09706   |        | XA116     | 51  |        |           |     |             |      |       |       |        | TC024A | 02       | TC024A      | 00               | 1     | TQ2                 | D4                 |                    | 27B    |
| 07836   |        | XA116     | 52  |        |           |     |             |      |       |       |        | SPO    | 01       |             | 00               | 1     | TQ2                 | D1                 |                    | 24A    |
| 04916   |        | XA116     | 53  |        | XA116     | 54  |             |      |       |       |        | SPI002 | 18       |             | 01               | 1     | TQ2                 | E3                 |                    | 28B    |
| 04917   |        | XA116     | 54  |        | XA116     | 42  |             |      |       |       |        | SPI002 | 19       |             | 01               | 1     | TQ2                 | D1                 |                    | 25A    |
| CONNECTOR XA116 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |             |                  |       |                     |                    |                    |        |

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| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE        |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05083         |        | XA116     | 55                              |        | XA116     | 59  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05082         |        | XA116     | 56                              |        | XA116     | 55  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07837         |        | XA116     | 57                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01780         |        | XA116     | 58                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05084         |        | XA116     | 59                              |        | XA116     | 41  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10050         |        | XA116     | 60                              |        | XA115     | 73  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10055         |        | XA116     | 60                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04915         |        | XA116     | 61                              |        | XA116     | 53  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 09730         |        | XA116     | 62                              |        | XA116     | 68  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07838         |        | XA116     | 63                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05081         |        | XA116     | 64                              |        | XA116     | 56  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 09133         |        | XA116     | 65                              |        | XA114     | 42  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10049         |        | XA116     | 66                              |        | XA116     | 60  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10054         |        | XA116     | 66                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01781         |        | XA116     | 67                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 09731         |        | XA116     | 68                              |        | XA336     | 39  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15708         |        | XA116     | 69                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05080         |        | XA116     | 70                              |        | XA116     | 64  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10735         |        | XA116     | 71                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10726         |        | XA116     | 72                              |        | XA339     | 27  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13531         |        | XA116     | 73                              |        | XA113     | 31  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15751         |        | XA116     | 74                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13556         |        | XA116     | 75                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16993         |        | XA116     | 76                              |        | XA305     | 20  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13585         |        | XA116     | 77                              |        | XA122     | 62  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16953         |        | XA116     | 78                              |        | XA145     | 68  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13535         |        | XA116     | 79                              |        | XA230     | 22  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15702         |        | XA116     | 80                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03831         |        | XA117     | 01                              |        | XA118     | 23  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03835         |        | XA117     | 01                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03832         |        | XA117     | 02                              |        | XA202     | 02  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 21133         |        | XA117     | 02                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20254         |        | XA117     | 03                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04322         |        | XA117     | 04                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04029         |        | XA117     | 05                              |        | XA202     | 08  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03942         |        | XA117     | 06                              |        | XA118     | 06  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20259         |        | XA117     | 06                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20260         |        | XA117     | 06                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20261         |        | XA117     | 06                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04030         |        | XA117     | 07                              |        | XA118     | 27  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04034         |        | XA117     | 07                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04313         |        | XA117     | 08                              |        | XA232     | 79  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20279         |        | XA117     | 09                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20256         |        | XA117     | 10                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04301         |        | XA117     | 11                              |        | XA232     | 70  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00304         |        | XA117     | 12                              |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04307         |        | XA117     | 13                              |        | XA232     | 55  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03837         |        | XA117     | 14                              |        | XA118     | 41  |             | 16B  | 9     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| CONNECTOR     |        | XA117     | CONTINUED ON THE NEXT PAGE **** |        |           |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA117  
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| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQU. TION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCL OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|-----------|------|--------|------------------|-------|---------------------|---------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH 12 | PREFIX | CONNECTOR | PIN | SH 12 | MULTI GROUP | CODE | COLOR | IDENT |         |        |           |      |        |                  |       |                     |                     |                    |        |
| 03841   |        | XA117     | 14  |       |        |           |     |       |             |      |       | J     | KDVC2DX | 01     | KDVC2DX   | 00   | 1      | DCF              | A5    |                     | 08B                 | KDVC2B BUSS        |        |
| 20258   |        | XA117     | 15  |       |        |           |     |       |             |      |       | M     | KDVC40X | 01     | KDVC40X   | 00   | 1      | DCF              | A4    |                     | 06B                 |                    |        |
| 03838   |        | XA117     | 16  |       | XA202  | 04        |     |       | 16B         | 9    |       |       | KDVC2G  | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 21134   |        | XA117     | 16  |       |        |           |     |       |             |      |       |       | GND     | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 03844   |        | XA117     | 17  |       | XA118  | 37        |     |       | 16B         | 9    |       | P     | KDVC4DX | 03     | KDVC4B    | 01   | 1      | DCF              | A3    |                     | 07B                 | 3RD LSB DVC ADD DI |        |
| 03847   |        | XA117     | 17  |       |        |           |     |       |             |      |       | J     | KDVC4DX | 01     | KDVC4DX   | 00   | 1      | DCF              | A3    |                     | 07B                 | KDVC4B BUSS        |        |
| 00767   |        | XA117     | 18  |       |        |           |     |       |             |      |       |       | DNW     | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 03843   |        | XA117     | 19  |       | XA202  | 06        |     |       | 16B         | 9    |       |       | KDVC4G  | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 00768   |        | XA117     | 20  |       |        |           |     |       |             |      |       |       | DNW     | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 04038   |        | XA117     | 21  |       | XA202  | 10        |     |       | 16B         | 9    |       |       | KI0C2G  | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 00769   |        | XA117     | 22  |       |        |           |     |       |             |      |       |       | DNW     | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 04037   |        | XA117     | 23  |       | XA202  | 09        |     |       | 16B         | 9    |       | P     | KI0C2DX | 03     | KI0C2B    | 01   | 1      | DCF              | B7    |                     | 10A                 |                    |        |
| 04040   |        | XA117     | 23  |       |        |           |     |       |             |      |       | J     | KI0C2DX | 01     | KI0C2DX   | 00   | 1      | DCF              | B7    |                     | 10A                 | KI0C2B BUSS        |        |
| 00770   |        | XA117     | 24  |       |        |           |     |       |             |      |       |       | DNW     | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 04054   |        | XA117     | 25  |       | XA202  | 24        |     |       | 16B         | 9    |       |       | KI0PRG  | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 00771   |        | XA117     | 26  |       |        |           |     |       |             |      |       |       | DNW     | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 04055   |        | XA117     | 27  |       | XA119  | 27        |     |       | 16B         | 9    |       | P     | KI0PRDX | 03     | KI0PRB    | 01   | 1      | DCF              | B1    |                     | 10B                 | IO DVC PAR ERR DSP |        |
| 04058   |        | XA117     | 27  |       |        |           |     |       |             |      |       | J     | KI0PRDX | 01     | KI0PRDX   | 00   | 1      | DCF              | B1    |                     | 10B                 | KI0PRB BUSS        |        |
| 00305   |        | XA117     | 28  |       |        |           |     |       |             |      |       |       | +5V     | 01     |           |      |        | DCF              |       |                     | 21B                 |                    |        |
| 20287   |        | XA117     | 29  |       |        |           |     |       |             |      |       | M     | KI0PROX | 01     | KI0PROX   | 00   | 1      | DCF              | B2    |                     | 11B                 |                    |        |
| 20281   |        | XA117     | 30  |       |        |           |     |       |             |      |       | M     | KI0C20X | 01     | KI0C20X   | 00   | 1      | DCF              | B8    |                     | 11A                 |                    |        |
| 04171   |        | XA117     | 31  |       | XA307  | 26        |     |       | 16B         | 9    |       |       | KMR08S  | 02     | KI0PROX   | 01   | 1      | DCF              | B2    |                     | 12B                 |                    |        |
| 01782   |        | XA117     | 32  |       |        |           |     |       |             |      |       |       | GND     | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 04210   |        | XA117     | 33  |       | XA233  | 56        |     |       | 16B         | 9    |       |       | KMR14S  | 01     | KI0CT0X   | 01   | 1      | DCF              | B4    |                     | 13B                 |                    |        |
| 04298   |        | XA117     | 34  |       |        |           |     |       |             |      |       |       | KMR27S  | 04     | KI0C20X   | 01   | 1      | DCF              | B8    |                     | 12A                 |                    |        |
| 20277   |        | XA117     | 35  |       |        |           |     |       |             |      |       | M     | KI0CT0X | 01     | KI0CT0X   | 00   | 1      | DCF              | B4    |                     | 14B                 |                    |        |
| 03941   |        | XA117     | 36  |       | XA117  | 06        |     |       | 16B         | 9    |       |       | KGNDCA  | 14     | KI0PRDX   | 01   | 1      | DCF              | B1    |                     | 13A                 |                    |        |
| 20262   |        | XA117     | 36  |       |        |           |     |       |             |      |       | M     | KGNDCA  | 01     | KI0C2DX   | 01   | 1      | DCF              | B7    |                     | 13A                 |                    |        |
| 20263   |        | XA117     | 36  |       |        |           |     |       |             |      |       | M     | KGNDCA  | 01     | KI0CTDX   | 01   | 1      | DCF              | B3    |                     | 13A                 |                    |        |
| 20264   |        | XA117     | 36  |       |        |           |     |       |             |      |       | M     | KGNDCA  | 01     | KI0C4DX   | 01   | 1      | DCF              | B5    |                     | 13A                 |                    |        |
| 04025   |        | XA117     | 37  |       | XA202  | 19        |     |       | 16B         | 9    |       | P     | KI0CTDX | 03     | KI0CTB    | 01   | 1      | DCF              | B3    |                     | 15B                 | KI0CTB BUSS        |        |
| 04028   |        | XA117     | 37  |       |        |           |     |       |             |      |       | J     | KI0CTDX | 01     | KI0CTDX   | 00   | 1      | DCF              | B3    |                     | 15B                 |                    |        |
| 04289   |        | XA117     | 38  |       | XA232  | 56        |     |       | 16B         | 9    |       |       | KMR26S  | 01     | KI0C4DX   | 01   | 1      | DCF              | B6    |                     | 14A                 |                    |        |
| 04026   |        | XA117     | 39  |       | XA202  | 20        |     |       | 16B         | 9    |       |       | KI0CTG  | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 20283   |        | XA117     | 40  |       |        |           |     |       |             |      |       | M     | KI0C40X | 01     | KI0C40X   | 00   | 1      | DCF              | B6    |                     | 15A                 |                    |        |
| 04043   |        | XA117     | 41  |       | XA119  | 41        |     |       | 16B         | 9    |       | P     | KI0C4DX | 03     | KI0C4B    | 01   | 1      | DCF              | B5    |                     | 16A                 | 2ND MSB DVC ADD DI |        |
| 04046   |        | XA117     | 41  |       |        |           |     |       |             |      |       | J     | KI0C4DX | 01     | KI0C4DX   | 00   | 1      | DCF              | B5    |                     | 16A                 | KI0C4B BUSS        |        |
| 04042   |        | XA117     | 42  |       | XA202  | 12        |     |       | 16B         | 9    |       |       | KI0C4G  | 01     |           |      |        | DCF              |       |                     | 20B                 |                    |        |
| 04114   |        | XA117     | 43  |       | XA118  | 61        |     |       | 16B         | 9    |       | P     | KMIT0DX | 02     | KMIT0B    | 01   | 1      | DCF              | C7    |                     | 25A                 | IQU MEM TIMEOUT DS |        |
| 04118   |        | XA117     | 43  |       |        |           |     |       |             |      |       | J     | KMIT0DX | 01     | KMIT0DX   | 00   | 1      | DCF              | C7    |                     | 25A                 | KMIT0B BUSS        |        |
| 04115   |        | XA117     | 44  |       | XA202  | 34        |     |       | 16B         | 9    |       |       | KMIT0G  | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 21135   |        | XA117     | 44  |       |        |           |     |       |             |      |       |       | GND     | 01     |           |      |        | DCF              |       |                     |                     |                    |        |
| 04092   |        | XA117     | 45  |       | XA202  | 42        |     |       | 16B         | 9    |       |       | KMEA4G  | 01     |           |      |        | DCF              |       |                     | 27A                 |                    |        |
| 04093   |        | XA117     | 46  |       | XA118  | 65        |     |       | 16B         | 9    |       | P     | KMEA4DX | 03     | KMEA4B    | 01   | 1      | DCF              | C1    |                     | 25B                 | MEM BK MSB DSPL    |        |
| 04096   |        | XA117     | 46  |       |        |           |     |       |             |      |       | J     | KMEA4DX | 01     | KMEA4DX   | 00   | 1      | DCF              | C1    |                     | 25B                 | KMEA4B BUSS        |        |
| 20299   |        | XA117     | 47  |       |        |           |     |       |             |      |       | M     | KMEA40X | 01     | KMEA40X   | 00   | 1      | DCF              | C2    |                     | 26B                 |                    |        |
| 20305   |        | XA117     | 48  |       |        |           |     |       |             |      |       | M     | KMIT0DX | 01     | KMIT0DX   | 00   | 1      | DCF              | C8    |                     | 26A                 |                    |        |
| 04267   |        | XA117     | 49  |       | XA232  | 24        |     |       | 16B         | 9    |       |       | KMR22S  | 03     | KMEA40X   | 01   | 1      | DCF              | C2    |                     | 27B                 |                    |        |
| 04204   |        | XA117     | 50  |       | XA307  | 35        |     |       | 16B         | 9    |       |       | KMR13S  | 02     | KMIT0DX   | 01   | 1      | DCF              | C8    |                     | 28A                 |                    |        |
| 04272   |        | XA117     | 51  |       | XA308  | 76        |     |       | 16B         | 9    |       |       | KMR23S  | 02     | KMEA20X   | 01   | 1      | DCF              | C4    |                     | 28B                 |                    |        |
| CONNECTOR (XA117) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |         |        |           |      |        |                  |       |                     |                     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA117  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 30

| RECORD NUMBER | FROM   |                                 |     | TO     |           |     | WIRE  |             |      |       | SPEC. INST. MISC. | SIGNAL   | SEQ NO | EQUATION | TERM FACTOR | CT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO          |       |
|---------------|--------|---------------------------------|-----|--------|-----------|-----|-------|-------------|------|-------|-------------------|----------|--------|----------|-------------|-----------------|-------|---------------------|--------------------|--------------------|-----------------|-------|
|               | PREFIX | CONNECTOR                       | PIN | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR |                   |          |        |          |             |                 |       |                     |                    |                    |                 | IDENT |
| 03940         |        | XA117                           | 52  |        | XA117     | 36  |       |             | 16B  | 9     |                   | KGNDCA   | 13     | KMEA40X  | 01          | 1               | DCF   | C1                  |                    | 29A                |                 |       |
| 20265         |        | XA117                           | 52  |        |           |     |       |             |      |       |                   | KGNDCA   | 01     | KMEA10X  | 01          | 1               | DCF   | C5                  |                    | 29A                |                 |       |
| 20266         |        | XA117                           | 52  |        |           |     |       |             |      |       |                   | KGNDCA   | 01     | KMEA20X  | 01          | 1               | DCF   | C3                  |                    | 29A                |                 |       |
| 20267         |        | XA117                           | 52  |        |           |     |       |             |      |       |                   | KGNDCA   | 01     | KMIT0DX  | 01          | 1               | DCF   | C7                  |                    | 29A                |                 |       |
| 04086         |        | XA117                           | 53  |        | XA202     | 40  |       |             | 16B  | 9     |                   | KMEA2G   | 01     |          |             |                 | DCF   |                     |                    |                    |                 |       |
| 04279         |        | XA117                           | 54  |        | XA232     | 40  |       |             | 16B  | 9     |                   | KMR24S   | 03     | KMEA10X  | 01          | 1               | DCF   | C6                  |                    | 30A                |                 |       |
| 04087         |        | XA117                           | 55  |        | XA118     | 78  |       |             | 16B  | 9     |                   | KMEA2DX  | 03     | KMEA2B   | 01          | 1               | DCF   | C3                  |                    | 30B                |                 |       |
| 04090         |        | XA117                           | 55  |        |           |     |       |             |      |       |                   | KMEA2DX  | 01     | KMEA2DX  | 00          | 1               | DCF   | C3                  |                    | 30B                | KMEA2B BUSS     |       |
| 20297         |        | XA117                           | 56  |        |           |     |       |             |      |       |                   | KMEA20X  | 01     | KMEA20X  | 00          | 1               | DCF   | C4                  |                    | 29B                |                 |       |
| 20295         |        | XA117                           | 57  |        |           |     |       |             |      |       |                   | KMEA10X  | 01     | KMEA10X  | 00          | 1               | DCF   | C6                  |                    | 31A                |                 |       |
| 04080         |        | XA117                           | 58  |        | XA202     | 38  |       |             | 16B  | 9     |                   | KMEA1G   | 01     |          |             |                 | DCF   |                     |                    |                    |                 |       |
| 21136         |        | XA117                           | 58  |        |           |     |       |             |      |       |                   | GND      | 01     |          |             |                 | DCF   |                     |                    |                    |                 |       |
| 04326         |        | XA117                           | 59  |        | XA202     | 22  |       |             | 16B  | 9     |                   | KPRGTG   | 01     |          |             |                 | DCF   |                     |                    |                    |                 |       |
| 04081         |        | XA117                           | 60  |        | XA118     | 80  |       |             | 16B  | 9     |                   | KMEA1DX  | 03     | KMEA1B   | 01          | 1               | DCF   | C5                  |                    | 31B                | MEM BK LSB DSPL |       |
| 04084         |        | XA117                           | 60  |        |           |     |       |             |      |       |                   | KMEA1DX  | 01     | KMEA1DX  | 00          | 1               | DCF   | C5                  |                    | 31B                | KMEA1B BUSS     |       |
| 04325         |        | XA117                           | 61  |        | XA202     | 21  |       |             | 16B  | 9     |                   | KPRGTDX  | 03     | KPRGTB   | 01          | 1               | DCF   | D7                  |                    | 33A                |                 |       |
| 04328         |        | XA117                           | 61  |        |           |     |       |             |      |       |                   | KPRGTDX  | 01     | KPRGTDX  | 00          | 1               | DCF   | D7                  |                    | 33A                | KPRGTB BUSS     |       |
| 00772         |        | XA117                           | 62  |        |           |     |       |             |      |       |                   | DNW      | 01     |          |             |                 | DCF   |                     |                    |                    |                 |       |
| 00773         |        | XA117                           | 63  |        |           |     |       |             |      |       |                   | DNW      | 01     |          |             |                 | DCF   |                     |                    |                    |                 |       |
| 00774         |        | XA117                           | 64  |        |           |     |       |             |      |       |                   | DNW      | 01     |          |             |                 | DCF   |                     |                    |                    |                 |       |
| 03820         |        | XA117                           | 65  |        | XA121     | 61  |       |             | 16B  | 9     |                   | KCMPMDX4 | 04     | KCMPMDX4 | 00          | 1               | DCF   | D1                  |                    | 32B                |                 | 004   |
| 00775         |        | XA117                           | 66  |        |           |     |       |             |      |       |                   | DNW      | 01     |          |             |                 | DCF   |                     |                    |                    |                 |       |
| 03819         |        | XA117                           | 67  |        | XA201     | 04  |       |             | 16B  | 9     |                   | KCMPMDG4 | 01     |          |             |                 | DCF   |                     |                    |                    |                 | 004   |
| 21137         |        | XA117                           | 67  |        |           |     |       |             |      |       |                   | GND      | 01     |          |             |                 | DCF   |                     |                    |                    |                 |       |
| 20307         |        | XA117                           | 68  |        |           |     |       |             |      |       |                   | KPRGTDX  | 01     | KPRGTDX  | 00          | 1               | DCF   | D8                  |                    | 34A                |                 |       |
| 20250         |        | XA117                           | 69  |        |           |     |       |             |      |       |                   | KCMPMDX  | 01     | KCMPMDX  | 00          | 1               | DCF   | D2                  |                    | 33B                |                 |       |
| 04219         |        | XA117                           | 70  |        | XA233     | 41  |       |             | 16B  | 9     |                   | KMR15S   | 03     | KPRGTDX  | 01          | 1               | DCF   | D8                  |                    | 35A                |                 |       |
| 04133         |        | XA117                           | 71  |        | XA108     | 80  |       |             | 16B  | 9     |                   | KMR02S   | 02     | KCMPMDX  | 01          | 1               | DCF   | D2                  |                    | 34B                |                 |       |
| 03938         |        | XA117                           | 72  |        | XA118     | 52  |       |             | 16B  | 9     |                   | KGNDCA   | 11     | KCMPMDX4 | 01          | 1               | DCF   | D1                  |                    | 36A                |                 | 004   |
| 20268         |        | XA117                           | 72  |        |           |     |       |             |      |       |                   | KGNDCA   | 01     | KSYSTDX  | 01          | 1               | DCF   | D3                  |                    | 36A                |                 |       |
| 20265         |        | XA117                           | 72  |        |           |     |       |             |      |       |                   | KGNDCA   | 01     | KSYSDMX  | 01          | 1               | DCF   | D5                  |                    | 36A                |                 |       |
| 20270         |        | XA117                           | 72  |        |           |     |       |             |      |       |                   | KGNDCA   | 01     | KPRGTDX  | 01          | 1               | DCF   | D7                  |                    | 36A                |                 |       |
| 04150         |        | XA117                           | 73  |        | XA307     | 13  |       |             | 16B  | 9     |                   | KMR05S   | 02     | KSYSTDX  | 01          | 1               | DCF   | D4                  |                    | 35B                |                 |       |
| 04127         |        | XA117                           | 74  |        |           |     |       |             |      |       |                   | KSYSDMX  | 02     | KSYSDMX  | 01          | 1               | DCF   | D6                  |                    | 37A                |                 | 805   |
| 20311         |        | XA117                           | 75  |        |           |     |       |             |      |       |                   | KSYSTDX  | 01     | KSYSTDX  | 00          | 1               | DCF   | D4                  |                    | 36B                |                 |       |
| 20309         |        | XA117                           | 76  |        |           |     |       |             |      |       |                   | KSYSDMX  | 01     | KSYSDMX  | 00          | 1               | DCF   | D6                  |                    | 38A                |                 |       |
| 04364         |        | XA117                           | 77  |        | XA202     | 46  |       |             | 16B  | 9     |                   | KSYSTG   | 01     |          |             |                 | DCF   |                     |                    |                    |                 |       |
| 04363         |        | XA117                           | 78  |        | XA202     | 45  |       |             | 16B  | 9     |                   | KSYSTDX  | 03     | KSYSTB   | 01          | 1               | DCF   | D3                  |                    | 37B                |                 |       |
| 04366         |        | XA117                           | 78  |        |           |     |       |             |      |       |                   | KSYSTDX  | 01     | KSYSTDX  | 00          | 1               | DCF   | D3                  |                    | 37B                | KSYSTB BUSS     |       |
| 04356         |        | XA117                           | 79  |        | XA201     | 02  |       |             | 16B  | 9     |                   | KSYSDMX  | 01     |          |             |                 | DCF   |                     |                    | 40B                |                 |       |
| 04357         |        | XA117                           | 80  |        | XA119     | 80  |       |             | 16B  | 9     |                   | KSYSDMX  | 03     | KSYSDMX  | 01          | 1               | DCF   | D5                  |                    | 38B                |                 |       |
| 04360         |        | XA117                           | 80  |        |           |     |       |             |      |       |                   | KSYSDMX  | 01     | KSYSDMX  | 00          | 1               | DCF   | D5                  |                    | 38B                | KSYSDMX BUSS    |       |
| 04061         |        | XA118                           | 01  |        | XA202     | 25  |       |             | 16B  | 9     |                   | KIOT0DX  | 03     | KIOT0B   | 01          | 1               | DCF   | A7                  |                    | 02A                |                 |       |
| 04064         |        | XA118                           | 01  |        |           |     |       |             |      |       |                   | KIOT0DX  | 01     | KIOT0DX  | 00          | 1               | DCF   | A7                  |                    | 02A                | KIOT0B BUSS     |       |
| 04062         |        | XA118                           | 02  |        | XA202     | 26  |       |             | 16B  | 9     |                   | KIOT0G   | 01     |          |             |                 | DCF   |                     |                    | 01A                |                 |       |
| 21138         |        | XA118                           | 02  |        |           |     |       |             |      |       |                   | GND      | 01     |          |             |                 | DCF   |                     |                    | 01A                |                 |       |
| 20291         |        | XA118                           | 03  |        |           |     |       |             |      |       |                   | KIOT0DX  | 01     | KIOT0DX  | 00          | 1               | DCF   | A8                  |                    | 03A                |                 |       |
| 04177         |        | XA118                           | 04  |        | XA233     | 03  |       |             | 16B  | 9     |                   | KMR09S   | 01     | KIOT0DX  | 01          | 1               | DCF   | A8                  |                    | 04A                |                 |       |
| CONNECTOR     | XA118  | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |       |             |      |       |                   |          |        |          |             |                 |       |                     |                    |                    |                 |       |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA118  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 31

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SPEC INST. MISC. | SIGNAL   | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|------------------|----------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |                  |          |        |          |      |      |                  |       |                     |                    |                    |        |
| 03940   |        | XA117     | 52  |      | XA117  | 36        |     |      |             | 16B  | 9     |       |                  | KGNDCA   | 13     | KMEA4DX  | 01   | 1    | DCF              | C1    |                     | 29A                |                    |        |
| 20265   |        | XA117     | 52  |      |        |           |     |      |             |      |       |       |                  | KGNDCA   | 01     | KMEA1DX  | 01   | 1    | DCF              | C5    |                     | 29A                |                    |        |
| 20266   |        | XA117     | 52  |      |        |           |     |      |             |      |       |       |                  | KGNDCA   | 01     | KMEA2DX  | 01   | 1    | DCF              | C3    |                     | 29A                |                    |        |
| 20267   |        | XA117     | 52  |      |        |           |     |      |             |      |       |       |                  | KGNDCA   | 01     | KMITODX  | 01   | 1    | DCF              | C7    |                     | 29A                |                    |        |
| 04086   |        | XA117     | 53  |      | XA202  | 40        |     |      |             | 16B  | 9     |       |                  | KMEA2G   | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 04279   |        | XA117     | 54  |      | XA232  | 40        |     |      |             | 16B  | 9     |       |                  | KMR24S   | 03     | KMEA10X  | 01   | 1    | DCF              | C6    |                     | 30A                |                    |        |
| 04087   |        | XA117     | 55  |      | XA118  | 78        |     |      |             | 16B  | 9     |       |                  | KMEA2DX  | 03     | KMEA2B   | 01   | 1    | DCF              | C3    |                     | 30B                |                    |        |
| 04090   |        | XA117     | 55  |      |        |           |     |      |             |      |       |       |                  | KMEA2DX  | 01     | KMEA2DX  | 00   | 1    | DCF              | C3    |                     | 30B                | KMEA2B             | BUSS   |
| 20297   |        | XA117     | 56  |      |        |           |     |      |             |      |       |       |                  | KMEA20X  | 01     | KMEA20X  | 00   | 1    | DCF              | C4    |                     | 29B                |                    |        |
| 20295   |        | XA117     | 57  |      |        |           |     |      |             |      |       |       |                  | KMEA10X  | 01     | KMEA10X  | 00   | 1    | DCF              | C6    |                     | 31A                |                    |        |
| 04080   |        | XA117     | 58  |      | XA202  | 38        |     |      |             | 16B  | 9     |       |                  | KMEA1G   | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 21136   |        | XA117     | 58  |      |        |           |     |      |             |      |       |       |                  | GND      | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 04326   |        | XA117     | 59  |      | XA202  | 22        |     |      |             | 16B  | 9     |       |                  | KPRGTG   | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 04081   |        | XA117     | 60  |      | XA118  | 80        |     |      |             | 16B  | 9     |       |                  | KMEA1DX  | 03     | KMEA1B   | 01   | 1    | DCF              | C5    |                     | 31B                | MEM BK LSB DSPL    |        |
| 04084   |        | XA117     | 60  |      |        |           |     |      |             |      |       |       |                  | KMEA1DX  | 01     | KMEA1DX  | 00   | 1    | DCF              | C5    |                     | 31B                | KMEA1B             | BUSS   |
| 04325   |        | XA117     | 61  |      | XA202  | 21        |     |      |             | 16B  | 9     |       |                  | KPRGTDX  | 03     | KPRGTB   | 01   | 1    | DCF              | D7    |                     | 33A                |                    |        |
| 04328   |        | XA117     | 61  |      |        |           |     |      |             |      |       |       |                  | KPRGTDX  | 01     | KPRGTDX  | 00   | 1    | DCF              | D7    |                     | 33A                | KPRGTB             | BUSS   |
| 00772   |        | XA117     | 62  |      |        |           |     |      |             |      |       |       |                  | DNW      | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 00773   |        | XA117     | 63  |      |        |           |     |      |             |      |       |       |                  | DNW      | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 00774   |        | XA117     | 64  |      |        |           |     |      |             |      |       |       |                  | DNW      | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 03820   |        | XA117     | 65  |      | XA121  | 61        |     |      |             | 16B  | 9     |       |                  | KCMPMDX4 | 04     | KCMPMDX4 | 00   | 1    | DCF              | D1    |                     | 32B                |                    | 004    |
| 00775   |        | XA117     | 66  |      |        |           |     |      |             |      |       |       |                  | DNW      | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 03819   |        | XA117     | 67  |      | XA201  | 04        |     |      |             | 16B  | 9     |       |                  | KCMPMDG4 | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 21137   |        | XA117     | 67  |      |        |           |     |      |             |      |       |       |                  | GND      | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 20307   |        | XA117     | 68  |      |        |           |     |      |             |      |       |       |                  | KPRGTOX  | 01     | KPRGTOX  | 00   | 1    | DCF              | D8    |                     | 34A                |                    |        |
| 20250   |        | XA117     | 69  |      |        |           |     |      |             |      |       |       |                  | KCMPMOX  | 01     | KCMPMOX  | 00   | 1    | DCF              | D2    |                     | 33B                |                    |        |
| 04219   |        | XA117     | 70  |      | XA233  | 41        |     |      |             | 16B  | 9     |       |                  | KMR15S   | 03     | KPRGTOX  | 01   | 1    | DCF              | D8    |                     | 35A                |                    |        |
| 04133   |        | XA117     | 71  |      | XA108  | 80        |     |      |             | 16B  | 9     |       |                  | KMR02S   | 02     | KCMPMOX  | 01   | 1    | DCF              | D2    |                     | 34B                |                    |        |
| 03938   |        | XA117     | 72  |      | XA118  | 52        |     |      |             | 16B  | 9     |       |                  | KGNDCA   | 11     | KCMPMDX4 | 01   | 1    | DCF              | D1    |                     | 36A                |                    | 004    |
| 20268   |        | XA117     | 72  |      |        |           |     |      |             |      |       |       |                  | KGNDCA   | 01     | KSYSTDX  | 01   | 1    | DCF              | D3    |                     | 36A                |                    |        |
| 20265   |        | XA117     | 72  |      |        |           |     |      |             |      |       |       |                  | KGNDCA   | 01     | KSYSMOX  | 01   | 1    | DCF              | D5    |                     | 36A                |                    |        |
| 20270   |        | XA117     | 72  |      |        |           |     |      |             |      |       |       |                  | KGNDCA   | 01     | KPRGTOX  | 01   | 1    | DCF              | D7    |                     | 36A                |                    |        |
| 04150   |        | XA117     | 73  |      | XA307  | 13        |     |      |             | 16B  | 9     |       |                  | KMR05S   | 02     | KSYSTOX  | 01   | 1    | DCF              | D4    |                     | 35B                |                    |        |
| 04127   |        | XA117     | 74  |      |        |           |     |      |             |      |       |       |                  | KSYSMO   | 02     | KSYSMOX  | 01   | 1    | DCF              | D6    |                     | 37A                |                    | 805    |
| 20311   |        | XA117     | 75  |      |        |           |     |      |             |      |       |       |                  | KSYSTOX  | 01     | KSYSTOX  | 00   | 1    | DCF              | D4    |                     | 36B                |                    |        |
| 20309   |        | XA117     | 76  |      |        |           |     |      |             |      |       |       |                  | KSYSMOX  | 01     | KSYSMOX  | 00   | 1    | DCF              | D6    |                     | 38A                |                    |        |
| 04364   |        | XA117     | 77  |      | XA202  | 46        |     |      |             | 16B  | 9     |       |                  | KSYSTG   | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 04363   |        | XA117     | 78  |      | XA202  | 45        |     |      |             | 16B  | 9     |       |                  | KSYSTDX  | 03     | KSYSTB   | 01   | 1    | DCF              | D3    |                     | 37B                |                    |        |
| 04366   |        | XA117     | 78  |      |        |           |     |      |             |      |       |       |                  | KSYSTDX  | 01     | KSYSTDX  | 00   | 1    | DCF              | D3    |                     | 37B                | KSYSTB             | BUSS   |
| 04356   |        | XA117     | 79  |      | XA201  | 02        |     |      |             | 16B  | 9     |       |                  | KSYSMG   | 01     |          |      |      | DCF              |       |                     | 40B                |                    |        |
| 04357   |        | XA117     | 80  |      | XA119  | 80        |     |      |             | 16B  | 9     |       |                  | KSYSMOX  | 03     | KSYSMB   | 01   | 1    | DCF              | D5    |                     | 38B                |                    |        |
| 04360   |        | XA117     | 80  |      |        |           |     |      |             |      |       |       |                  | KSYSMOX  | 01     | KSYSMOX  | 00   | 1    | DCF              | D5    |                     | 38B                | KSYSMB             | BUSS   |
| 04061   |        | XA118     | 01  |      | XA202  | 25        |     |      |             | 16B  | 9     |       |                  | KIOTODX  | 03     | KIOTOB   | 01   | 1    | DCF              | A7    |                     | 02A                |                    |        |
| 04064   |        | XA118     | 01  |      |        |           |     |      |             |      |       |       |                  | KIOTODX  | 01     | KIOTODX  | 00   | 1    | DCF              | A7    |                     | 02A                | KIOTOB             | BUSS   |
| 04062   |        | XA118     | 02  |      | XA202  | 26        |     |      |             | 16B  | 9     |       |                  | KIOTOG   | 01     |          |      |      | DCF              |       |                     | 01A                |                    |        |
| 21138   |        | XA118     | 02  |      |        |           |     |      |             |      |       |       |                  | GND      | 01     |          |      |      | DCF              |       |                     | 01A                |                    |        |
| 20291   |        | XA118     | 03  |      |        |           |     |      |             |      |       |       |                  | KIOTOOX  | 01     | KIOTOOX  | 00   | 1    | DCF              | A8    |                     | 03A                |                    |        |
| 04177   |        | XA118     | 04  |      | XA233  | 03        |     |      |             | 16B  | 9     |       |                  | KMR09S   | 01     | KIOTOOX  | 01   | 1    | DCF              | A8    |                     | 04A                |                    |        |
| CONNECTOR (XA118) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |                  |          |        |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA118  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 32

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SPT. INST. WIRE | SIGNAL  | SEQ NO  | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|-----------------|---------|---------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | EN FC | PREFIX | CONNECTOR | PIN | EN FC | MULTI GROUP | CODE | COLOR | IDENT |                 |         |         |          |      |      |                  |       |                     |                    |                    |        |
| 04580   |        | XA118     | 41  |       |        |           |     |       |             |      |       |       | J               | LDVC2DX | 01      | LDVC2DX  | 00   | 1    | DCF              | B5    |                     | 16A                | KDVC2B BUSS        |        |
| 03309   |        | XA118     | 42  |       |        |           |     |       |             |      |       |       | J               | SPP     | 01      |          |      | 1    | DCF              |       |                     | 20B                |                    |        |
| 03826   |        | XA118     | 43  |       | XA119  | 43        |     |       | 16B         | 9    |       |       | P               | KDVBLDX | 03      | KDVBLE   | 01   | 1    | DCF              | C7    |                     | 25A                | BOOTSTRAP DISPLAY  |        |
| 03829   |        | XA118     | 43  |       |        |           |     |       |             |      |       |       | J               | KDVBLDX | 01      | KDVBLE   | 00   | 1    | DCF              | C7    |                     | 25A                | KDVBLE BUSS        |        |
| 03825   |        | XA118     | 44  |       |        |           |     |       |             |      |       |       | J               | KDVBLE  | 02      |          |      |      | DCF              |       |                     |                    |                    |        |
| 21140   |        | XA118     | 44  |       |        |           |     |       |             |      |       |       | J               | GND     | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 03517   |        | XA118     | 45  |       |        |           |     |       |             |      |       |       | J               | SPP     | 01      |          |      |      | DCF              |       |                     | 27A                |                    |        |
| 07839   |        | XA118     | 46  |       |        |           |     |       |             |      |       |       | J               | SPO     | 01      |          | 00   | 1    | DCF              | C1    |                     | 25B                |                    |        |
| 07840   |        | XA118     | 47  |       |        |           |     |       |             |      |       |       | J               | SPO     | 01      |          | 00   | 1    | DCF              | C2    |                     | 26B                |                    |        |
| 20252   |        | XA118     | 48  |       |        |           |     |       |             |      |       |       | M               | KDVBLOX | 01      | KDVBLOX  | 00   | 1    | DCF              | C8    |                     | 26A                |                    |        |
| 05092   |        | XA118     | 49  |       | XA120  | 47        |     |       | 16B         | 9    |       |       | J               | SPI009  | 27      |          |      |      | DCF              | C2    |                     | 27B                |                    |        |
| 04143   |        | XA118     | 50  |       | XA234  | 68        |     |       | 16B         | 9    |       |       | J               | KMR04S  | 01      | KDVBLOX  | 01   | 1    | DCF              | C8    |                     | 28A                |                    |        |
| 20248   |        | XA118     | 51  |       | XA410  | 37        |     |       | 16B         | 9    |       |       | J               | JUMP01  | 01      | IOPWROX  | 01   | 1    | DCF              | C4    |                     | 28B                |                    |        |
| 03939   |        | XA118     | 52  |       | XA117  | 52        |     |       | 16B         | 9    |       |       | J               | KGNDCA  | 12      | IOPWROX  | 01   | 1    | DCF              | C3    |                     | 29A                |                    |        |
| 20274   |        | XA118     | 52  |       |        |           |     |       |             |      |       | M     | KGNDCA          | 01      | KDVBLOX | 01       | 1    | DCF  | C7               |       | 29A                 |                    |                    |        |
| 20275   |        | XA118     | 52  |       |        |           |     |       |             |      |       | M     | KGNDCA          | 01      | KIOC8DX | 01       | 1    | DCF  | C5               |       | 29A                 |                    |                    |        |
| 21329   |        | XA118     | 53  |       |        |           |     |       |             |      |       |       | J               | SPP     | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 04285   |        | XA118     | 54  |       | XA232  | 31        |     |       | 16B         | 9    |       |       | J               | KMR25S  | 03      | KIOC8DX  | 01   | 1    | DCF              | C6    |                     | 30A                |                    |        |
| 03516   |        | XA118     | 55  |       | XA120  | 25        |     |       | 16B         | 9    |       |       | P               | IOPWRDX | 03      | IOPWRB   | 01   | 1    | DCF              | C3    |                     | 30B                |                    |        |
| 03519   |        | XA118     | 55  |       |        |           |     |       |             |      |       |       | J               | IOPWRDX | 01      | IOPWRDX  | 00   | 1    | DCF              | C3    |                     | 30B                | IOPWRB BUSS        |        |
| 20242   |        | XA118     | 56  |       |        |           |     |       |             |      |       |       | M               | IOPWROX | 01      | IOPWROX  | 00   | 1    | DCF              | C4    |                     | 29B                |                    |        |
| 20285   |        | XA118     | 57  |       |        |           |     |       |             |      |       |       | M               | KIOC8DX | 01      | KIOC8DX  | 00   | 1    | DCF              | C6    |                     | 31A                |                    |        |
| 04050   |        | XA118     | 58  |       | XA202  | 14        |     |       | 16B         | 9    |       |       | J               | KIOC8G  | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 21141   |        | XA118     | 58  |       |        |           |     |       |             |      |       |       | J               | GND     | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 03366   |        | XA118     | 59  |       |        |           |     |       |             |      |       |       | J               | SPP     | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 04049   |        | XA118     | 60  |       | XA202  | 13        |     |       | 16B         | 9    |       |       | P               | KIOC8DX | 03      | KIOC8B   | 01   | 1    | DCF              | C5    |                     | 31B                |                    |        |
| 04052   |        | XA118     | 60  |       |        |           |     |       |             |      |       |       | J               | KIOC8DX | 01      | KIOC8DX  | 00   | 1    | DCF              | C5    |                     | 31B                | KIOC8B BUSS        |        |
| 04116   |        | XA118     | 61  |       | XA202  | 33        |     |       | 16B         | 9    |       |       | J               | LMIT0DX | 04      | KMIT0B   | 02   | 1    | DCF              | D7    |                     | 33A                |                    |        |
| 04595   |        | XA118     | 61  |       |        |           |     |       |             |      |       |       | J               | LMIT0DX | 01      | LMIT0DX  | 00   | 1    | DCF              | D7    |                     | 33A                | KMIT0B BUSS        |        |
| 00781   |        | XA118     | 62  |       |        |           |     |       |             |      |       |       | J               | DNW     | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 00782   |        | XA118     | 63  |       |        |           |     |       |             |      |       |       | J               | DNW     | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 00783   |        | XA118     | 64  |       |        |           |     |       |             |      |       |       | J               | DNW     | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 04094   |        | XA118     | 65  |       | XA331  | 74        |     |       | 16B         | 9    |       |       | J               | LMEA4DX | 04      | KMEA4B   | 02   | 1    | DCF              | D1    |                     | 32B                |                    |        |
| 04592   |        | XA118     | 65  |       |        |           |     |       |             |      |       |       | J               | LMEA4DX | 01      | LMEA4DX  | 00   | 1    | DCF              | D1    |                     | 32B                | KMEA4B BUSS        |        |
| 00784   |        | XA118     | 66  |       |        |           |     |       |             |      |       |       | J               | DNW     | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 03373   |        | XA118     | 67  |       |        |           |     |       |             |      |       |       | J               | GND     | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 20330   |        | XA118     | 68  |       |        |           |     |       |             |      |       |       | M               | LMIT0DX | 01      | LMIT0DX  | 00   | 1    | DCF              | D8    |                     | 34A                |                    |        |
| 20327   |        | XA118     | 69  |       |        |           |     |       |             |      |       |       | M               | LMEA4DX | 01      | LMEA4DX  | 00   | 1    | DCF              | D2    |                     | 33B                |                    |        |
| 04984   |        | XA118     | 70  |       | XA113  | 15        |     |       | 16B         | 9    |       |       | J               | SPI004  | 19      | LMIT0DX  | 01   | 1    | DCF              | D8    |                     | 35A                |                    |        |
| 05079   |        | XA118     | 71  |       | XA116  | 70        |     |       | 16B         | 9    |       |       | J               | SPI009  | 14      | LMEA4DX  | 01   | 1    | DCF              | D2    |                     | 34B                |                    |        |
| 17382   |        | XA118     | 72  |       | XA119  | 72        |     |       | 16B         | 9    |       |       | J               | WKL TSA | 01      | LMEA4DX  | 01   | 1    | DCF              | D1    |                     | 36A                |                    |        |
| 20545   |        | XA118     | 72  |       |        |           |     |       |             |      |       |       | M               | WKL TSA | 01      | LMIT0DX  | 01   | 1    | DCF              | D7    |                     | 36A                |                    |        |
| 20546   |        | XA118     | 72  |       |        |           |     |       |             |      |       |       | M               | WKL TSA | 01      | LMEA2DX  | 01   | 1    | DCF              | D3    |                     | 36A                |                    |        |
| 20547   |        | XA118     | 72  |       |        |           |     |       |             |      |       |       | M               | WKL TSA | 01      | LMEA1DX  | 01   | 1    | DCF              | D5    |                     | 36A                |                    |        |
| 04904   |        | XA118     | 73  |       | XA114  | 78        |     |       | 16B         | 9    |       |       | J               | SPI002  | 06      | LMEA2DX  | 01   | 1    | DCF              | D4    |                     | 35B                |                    |        |
| 04941   |        | XA118     | 74  |       | XA119  | 74        |     |       | 16B         | 9    |       |       | J               | SPI003  | 10      | LMEA1DX  | 01   | 1    | DCF              | D6    |                     | 37A                |                    |        |
| 20326   |        | XA118     | 75  |       |        |           |     |       |             |      |       |       | M               | LMEA2DX | 01      | LMEA2DX  | 00   | 1    | DCF              | D4    |                     | 36B                |                    |        |
| 20325   |        | XA118     | 76  |       |        |           |     |       |             |      |       |       | M               | LMEA1DX | 01      | LMEA1DX  | 00   | 1    | DCF              | D6    |                     | 38A                |                    |        |
| 03380   |        | XA118     | 77  |       |        |           |     |       |             |      |       |       | J               | SPP     | 01      |          |      |      | DCF              |       |                     |                    |                    |        |
| 04088   |        | XA118     | 78  |       | XA331  | 72        |     |       | 16B         | 9    |       |       | P               | LMEA2DX | 04      | KMEA2B   | 02   | 1    | DCF              | D3    |                     | 37B                |                    |        |
| CONNECTOR (XA118) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |                 |         |         |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA118  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 33

| RECORD NUMBER                                     | FROM   |           |     |        | TO     |           |     |        | WIRE        |      |       |       | SIGNAL    | SEQ NO | EQUATION  | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCHOR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|--------|-----------|-----|--------|-------------|------|-------|-------|-----------|--------|-----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH FTG | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE | COLOR | IDENT |           |        |           |      |        |                  |       |                     |                    |                    |        |
| 04591   |        | XA118     | 78  |        |        |           |     |        |             |      |       |       | LMEA2DX   | 01     | LMEA2DX   | 00   | 1      | DCF              | D3    |                     | 37B                | KMEA2B BUSS        |        |
| 03393   |        | XA118     | 79  |        |        |           |     |        |             |      |       |       | SPP       | 01     |           |      |        | DCF              |       |                     | 40B                |                    |        |
| 04082   |        | XA118     | 80  |        | XA331  | 66        |     |        |             | 16B  | 9     |       | LMEA1DX   | 04     | KMEA1B    | 02   | 1      | DCF              | D5    |                     | 38B                |                    |        |
| 04590   |        | XA118     | 80  |        |        |           |     |        |             |      |       |       | LMEA1DX   | 01     | LMEA1DX   | 00   | 1      | DCF              | D5    |                     | 38B                | KMEA1B BUSS        |        |
| 04060   |        | XA119     | 01  |        | XA118  | 01        |     |        |             | 16B  | 9     |       | L10T0DX   | 02     | K10T0B    | 02   | 1      | DCF              | A7    |                     | 02A                | IO DVC TIMEOUT DSP |        |
| 04588   |        | XA119     | 01  |        |        |           |     |        |             |      |       |       | L10T0DX   | 01     | L10T0DX   | 00   | 1      | DCF              | A7    |                     | 02A                | K10T0B BUSS        |        |
| 03229   |        | XA119     | 02  |        |        |           |     |        |             |      |       |       | GND       | 01     |           |      |        | DCF              |       |                     | 01A                |                    |        |
| 20323   |        | XA119     | 03  |        |        |           |     |        |             |      |       |       | L10T00X   | 01     | L10T00X   | 00   | 1      | DCF              | A8    |                     | 03A                |                    |        |
| 04986   |        | XA119     | 04  |        | XA118  | 34        |     |        |             | 16B  | 9     |       | SPI004    | 21     | L10T00X   | 01   | 1      | DCF              | A8    |                     | 04A                |                    |        |
| 03250   |        | XA119     | 05  |        |        |           |     |        |             |      |       |       | SPP       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 17387   |        | XA119     | 06  |        | XA107  | 10        |     |        |             | 16B  | 9     |       | WKL TSA   | 06     | L MET 0DX | 01   | 1      | DCF              | A1    |                     | 05A                |                    |        |
| 20548   |        | XA119     | 06  |        |        |           |     |        |             |      |       |       | WKL TSA   | 01     | LMEPRDX   | 01   | 1      | DCF              | A3    |                     | 05A                |                    |        |
| 20549   |        | XA119     | 06  |        |        |           |     |        |             |      |       |       | WKL TSA   | 01     | L10T0DX   | 01   | 1      | DCF              | A7    |                     | 05A                |                    |        |
| 20550   |        | XA119     | 06  |        |        |           |     |        |             |      |       |       | WKL TSA   | 01     | LMCPRDX   | 01   | 1      | DCF              | A5    |                     | 05A                |                    |        |
| 04107   |        | XA119     | 07  |        | XA120  | 24        |     |        |             | 16B  | 9     |       | L MET 0DX | 03     | KMET0R    | 02   | 1      | DCF              | A1    |                     | 02B                |                    |        |
| 04594   |        | XA119     | 07  |        |        |           |     |        |             |      |       |       | L MET 0DX | 01     | L MET 0DX | 00   | 1      | DCF              | A1    |                     | 02B                | KMET0B BUSS        |        |
| 04951   |        | XA119     | 08  |        | XA122  | 72        |     |        |             | 16B  | 9     |       | SPI003    | 20     | LMCPRDX   | 01   | 1      | DCF              | A6    |                     | 06A                |                    | C10    |
| 20329   |        | XA119     | 09  |        |        |           |     |        |             |      |       |       | L MET 00X | 01     | L MET 00X | 00   | 1      | DCF              | A2    |                     | 03B                |                    |        |
| 20324   |        | XA119     | 10  |        |        |           |     |        |             |      |       |       | LMCPRDX   | 01     | LMCPRDX   | 00   | 1      | DCF              | A6    |                     | 07A                |                    |        |
| 05097   |        | XA119     | 11  |        |        |           |     |        |             |      |       |       | SPI009    | 32     | L MET 00X | 01   | 1      | DCF              | A2    |                     | 04B                |                    | D05    |
| 00508   |        | XA119     | 12  |        |        |           |     |        |             |      |       |       | +5V       | 01     |           |      |        | DCF              |       |                     | 08A                |                    |        |
| 04925   |        | XA119     | 13  |        | XA116  | 25        |     |        |             | 16B  | 9     |       | SPI002    | 27     | LMEPRDX   | 01   | 1      | DCF              | A4    |                     | 05B                |                    |        |
| 04074   |        | XA119     | 14  |        | XA120  | 26        |     |        |             | 16B  | 9     |       | LMCPRDX   | 04     | KMCPRB    | 02   | 1      | DCF              | A5    |                     | 08B                |                    |        |
| 04589   |        | XA119     | 14  |        |        |           |     |        |             |      |       |       | LMCPRDX   | 01     | LMCPRDX   | 00   | 1      | DCF              | A5    |                     | 08B                | KMCPRB BUSS        |        |
| 20328   |        | XA119     | 15  |        |        |           |     |        |             |      |       |       | LMEPRDX   | 01     | LMEPRDX   | 00   | 1      | DCF              | A4    |                     | 06B                |                    |        |
| 03251   |        | XA119     | 16  |        |        |           |     |        |             |      |       |       | GND       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 04098   |        | XA119     | 17  |        | XA118  | 17        |     |        |             | 16B  | 9     |       | LMEPRDX   | 02     | KMEPRB    | 02   | 1      | DCF              | A3    |                     | 07B                | IGU MEM PAP ERR DI |        |
| 04593   |        | XA119     | 17  |        |        |           |     |        |             |      |       |       | LMEPRDX   | 01     | LMEPRDX   | 00   | 1      | DCF              | A3    |                     | 07B                | KMEPRB BUSS        |        |
| 00785   |        | XA119     | 18  |        |        |           |     |        |             |      |       |       | DNW       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 03272   |        | XA119     | 19  |        |        |           |     |        |             |      |       |       | SPP       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 00786   |        | XA119     | 20  |        |        |           |     |        |             |      |       |       | DNW       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 03295   |        | XA119     | 21  |        |        |           |     |        |             |      |       |       | SPP       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 00787   |        | XA119     | 22  |        |        |           |     |        |             |      |       |       | DNW       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 04036   |        | XA119     | 23  |        | XA117  | 23        |     |        |             | 16B  | 9     |       | L10C2DX   | 02     | K10C2B    | 02   | 1      | DCF              | B7    |                     | 10A                | 3RD MSB DVC ADD DI |        |
| 04584   |        | XA119     | 23  |        |        |           |     |        |             |      |       |       | L10C2DX   | 01     | L10C2DX   | 00   | 1      | DCF              | B7    |                     | 10A                | K10C2B BUSS        |        |
| 00788   |        | XA119     | 24  |        |        |           |     |        |             |      |       |       | DNW       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 03274   |        | XA119     | 25  |        |        |           |     |        |             |      |       |       | SPP       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 00789   |        | XA119     | 26  |        |        |           |     |        |             |      |       |       | DNW       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 04056   |        | XA119     | 27  |        | XA120  | 05        |     |        |             | 16B  | 9     |       | L10PRDX   | 04     | K10PRB    | 02   | 1      | DCF              | B1    |                     | 10B                |                    |        |
| 04587   |        | XA119     | 27  |        |        |           |     |        |             |      |       |       | L10PRDX   | 01     | L10PRDX   | 00   | 1      | DCF              | B1    |                     | 10B                | K10PRB BUSS        |        |
| 00309   |        | XA119     | 28  |        |        |           |     |        |             |      |       |       | +5V       | 01     |           |      |        | DCF              |       |                     | 21B                |                    |        |
| 20322   |        | XA119     | 29  |        |        |           |     |        |             |      |       |       | L10PROX   | 01     | L10PROX   | 00   | 1      | DCF              | B2    |                     | 11B                |                    |        |
| 20319   |        | XA119     | 30  |        |        |           |     |        |             |      |       |       | L10C20X   | 01     | L10C20X   | 00   | 1      | DCF              | B8    |                     | 11A                |                    |        |
| 05090   |        | XA119     | 31  |        | XA119  | 49        |     |        |             | 16B  | 9     |       | SPI009    | 25     | L10PROX   | 01   | 1      | DCF              | B2    |                     | 12B                |                    |        |
| 01784   |        | XA119     | 32  |        |        |           |     |        |             |      |       |       | GND       | 01     |           |      |        | DCF              |       |                     |                    |                    |        |
| 04924   |        | XA119     | 33  |        | XA119  | 13        |     |        |             | 16B  | 9     |       | SPI002    | 26     | L10C20X   | 01   | 1      | DCF              | B4    |                     | 13B                |                    |        |
| 04988   |        | XA119     | 34  |        | XA120  | 35        |     |        |             | 16B  | 9     |       | SPI004    | 23     | L10C20X   | 01   | 1      | DCF              | B8    |                     | 12A                |                    |        |
| 20317   |        | XA119     | 35  |        |        |           |     |        |             |      |       |       | L10C20X   | 01     | L10C20X   | 00   | 1      | DCF              | B4    |                     | 14B                |                    |        |
| CONNECTOR (XA119) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |           |     |        |             |      |       |       |           |        |           |      |        |                  |       |                     |                    |                    |        |

| RECORD NUMBER | FROM   |                                 |     |     | TO     |           |     |     | WIRE        |      |       |       | SPEC. INST. MISC. | SIGNAL  | SFQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION  | ECO NO |
|---------------|--------|---------------------------------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|-------------------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|---------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | USE | PREFIX | CONNECTOR | PIN | USE | MULTI GROUP | CODE | COLOR | IDENT |                   |         |        |          |      |        |                  |       |                     |                    |                     |        |
| 17386         |        | XA119                           | 36  |     | XA119  | 06        |     |     |             | 16B  | 9     |       | M                 | WKL TSA | 05     | LIOPRODX | 01   | 1      | OCF              | 81    |                     | 13A                |                     |        |
| 20551         |        | XA119                           | 36  |     |        |           |     |     |             |      |       |       | M                 | WKL TSA | 01     | LIOC2DX  | 01   | 1      | OCF              | 87    |                     | 13A                |                     |        |
| 20552         |        | XA119                           | 36  |     |        |           |     |     |             |      |       |       | M                 | WKL TSA | 01     | LIOC4DX  | 01   | 1      | OCF              | 85    |                     | 13A                |                     |        |
| 20553         |        | XA119                           | 36  |     |        |           |     |     |             |      |       |       | M                 | WKL TSA | 01     | LIOC7DX  | 01   | 1      | OCF              | 83    |                     | 13A                |                     |        |
| 04024         |        | XA119                           | 37  |     | XA117  | 37        |     |     |             | 16B  | 9     |       | P                 | LIOC7DX | 02     | KIOCTB   | 02   | 1      | OCF              | 83    |                     | 15B                | I/O TIMEOUT DSPLY   |        |
| 04582         |        | XA119                           | 37  |     |        |           |     |     |             |      |       |       | J                 | LIOC7DX | 01     | LIOC7DX  | 00   | 1      | OCF              | 83    |                     | 15B                | KIOCTB BUSS         |        |
| 04945         |        | XA119                           | 38  |     | XA118  | 38        |     |     |             | 16B  | 9     |       |                   | SPI003  | 14     | LIOC40X  | 01   | 1      | OCF              | 86    |                     | 14A                |                     |        |
| 03298         |        | XA119                           | 39  |     |        |           |     |     |             |      |       |       |                   | SPP     | 01     |          |      |        | OCF              |       |                     |                    |                     |        |
| 20320         |        | XA119                           | 40  |     |        |           |     |     |             |      |       |       | M                 | LIOC40X | 01     | LIOC40X  | 00   | 1      | OCF              | 86    |                     | 15A                |                     |        |
| 04044         |        | XA119                           | 41  |     | XA331  | 63        |     |     |             | 16B  | 9     |       | P                 | LIOC4DX | 04     | KIOC4B   | 02   | 1      | OCF              | 85    |                     | 16A                |                     |        |
| 04585         |        | XA119                           | 41  |     |        |           |     |     |             |      |       |       | J                 | LIOC4DX | 01     | LIOC40X  | 00   | 1      | OCF              | 85    |                     | 16A                | KIOC4B BUSS         |        |
| 03310         |        | XA119                           | 42  |     |        |           |     |     |             |      |       |       |                   | SPP     | 01     |          |      |        | OCF              |       |                     | 20B                |                     |        |
| 03827         |        | XA119                           | 43  |     | XA120  | 23        |     |     |             | 16B  | 9     |       | P                 | LDVBLDX | 04     | KDVBLB   | 02   | 1      | OCF              | C7    |                     | 25A                |                     |        |
| 04578         |        | XA119                           | 43  |     |        |           |     |     |             |      |       |       | J                 | LDVBLDX | 01     | LDVBLDX  | 00   | 1      | OCF              | C7    |                     | 25A                | KDVBLB BUSS         |        |
| 03342         |        | XA119                           | 44  |     |        |           |     |     |             |      |       |       |                   | GND     | 01     |          |      |        | OCF              |       |                     |                    |                     |        |
| 03321         |        | XA119                           | 45  |     |        |           |     |     |             |      |       |       |                   | SPP     | 01     |          |      |        | OCF              |       |                     | 27A                |                     |        |
| 07841         |        | XA119                           | 46  |     |        |           |     |     |             |      |       |       |                   | SPO     | 01     |          |      | 00     | 1                | OCF   | C1                  |                    | 25B                 |        |
| 07842         |        | XA119                           | 47  |     |        |           |     |     |             |      |       |       |                   | SPO     | 01     |          |      | 00     | 1                | OCF   | C2                  |                    | 26B                 |        |
| 20313         |        | XA119                           | 48  |     |        |           |     |     |             |      |       |       | M                 | LDVBLDX | 01     | LDVBLDX  | 00   | 1      | OCF              | C8    |                     | 26A                |                     |        |
| 05091         |        | XA119                           | 49  |     | XA118  | 49        |     |     |             | 16B  | 9     |       |                   | SPI009  | 26     |          |      | 01     | 1                | OCF   | C2                  |                    | 27B                 |        |
| 04990         |        | XA119                           | 50  |     | XA114  | 46        |     |     |             | 16B  | 9     |       |                   | SPI004  | 25     | LDVBLDX  | 01   | 1      | OCF              | C8    |                     | 28A                |                     |        |
| 04902         |        | XA119                           | 51  |     | XA119  | 73        |     |     |             | 16B  | 9     |       |                   | SPI002  | 04     | IOPWTOX  | 01   | 1      | OCF              | C4    |                     | 28B                |                     |        |
| 17384         |        | XA119                           | 52  |     | XA118  | 36        |     |     |             | 16B  | 9     |       |                   | WKL TSA | 03     | IOPWTOX  | 01   | 1      | OCF              | C3    |                     | 29A                |                     |        |
| 20554         |        | XA119                           | 52  |     |        |           |     |     |             |      |       |       | M                 | WKL TSA | 01     | LDVBLDX  | 01   | 1      | OCF              | C7    |                     | 29A                |                     |        |
| 20555         |        | XA119                           | 52  |     |        |           |     |     |             |      |       |       | M                 | WKL TSA | 01     | LIOC8DX  | 01   | 1      | OCF              | C5    |                     | 29A                |                     |        |
| 21069         |        | XA119                           | 53  |     |        |           |     |     |             |      |       |       |                   | IOPWRG  | 02     |          |      |        | OCF              |       |                     |                    |                     |        |
| 04943         |        | XA119                           | 54  |     | XA120  | 46        |     |     |             | 16B  | 9     |       |                   | SPI003  | 12     | LIOC80X  | 01   | 1      | OCF              | C6    |                     | 30A                |                     |        |
| 03515         |        | XA119                           | 55  |     | XA118  | 55        |     |     |             | 16B  | 9     |       | P                 | IOPWTOX | 02     | IOPWRB   | 02   | 1      | OCF              | C3    |                     | 30B                | I/O PWR DISPLAY     |        |
| 03520         |        | XA119                           | 55  |     |        |           |     |     |             |      |       |       | J                 | IOPWTOX | 01     | IOPWTOX  | 00   | 1      | OCF              | C3    |                     | 30B                | IOPWRB BUSS         |        |
| 20243         |        | XA119                           | 56  |     |        |           |     |     |             |      |       |       | M                 | IOPWTOX | 01     | IOPWTOX  | 00   | 1      | OCF              | C4    |                     | 29B                |                     |        |
| 20321         |        | XA119                           | 57  |     |        |           |     |     |             |      |       |       | M                 | LIOC80X | 01     | LIOC80X  | 00   | 1      | OCF              | C6    |                     | 31A                |                     |        |
| 03365         |        | XA119                           | 58  |     |        |           |     |     |             |      |       |       |                   | GND     | 01     |          |      |        | OCF              |       |                     |                    |                     |        |
| 21422         |        | XA119                           | 58  |     |        |           |     |     |             |      |       |       |                   | JDB13G  | 02     |          |      |        | OCF              |       |                     |                    |                     | C07    |
| 21426         |        | XA119                           | 58  |     |        |           |     |     |             |      |       |       |                   | JDB15G  | 02     |          |      |        | OCF              |       |                     |                    |                     | C07    |
| 21428         |        | XA119                           | 58  |     |        |           |     |     |             |      |       |       |                   | JDB16G  | 02     |          |      |        | OCF              |       |                     |                    |                     | C07    |
| 03367         |        | XA119                           | 59  |     |        |           |     |     |             |      |       |       |                   | SPP     | 01     |          |      |        | OCF              |       |                     |                    |                     |        |
| 04048         |        | XA119                           | 60  |     | XA118  | 60        |     |     |             | 16B  | 9     |       | P                 | LIOC8DX | 02     | KIOC8B   | 02   | 1      | OCF              | C5    |                     | 31B                | MSB DVC ADD-N       |        |
| 04566         |        | XA119                           | 60  |     |        |           |     |     |             |      |       |       | J                 | LIOC8DX | 01     | LIOC8DX  | 00   | 1      | OCF              | C5    |                     | 31B                | KIOC8B BUSS         |        |
| 04324         |        | XA119                           | 61  |     | XA117  | 61        |     |     |             | 16B  | 9     |       | P                 | LPRGTOX | 02     | KPRGTB   | 02   | 1      | OCF              | 07    |                     | 33A                | I/O PROG TIMEOUT DI |        |
| 04596         |        | XA119                           | 61  |     |        |           |     |     |             |      |       |       | J                 | LPRGTOX | 01     | LPRGTOX  | 00   | 1      | OCF              | 07    |                     | 33A                | KPRGTB BUSS         |        |
| 00790         |        | XA119                           | 62  |     |        |           |     |     |             |      |       |       |                   | DNW     | 01     |          |      |        | OCF              |       |                     |                    |                     |        |
| 00791         |        | XA119                           | 63  |     |        |           |     |     |             |      |       |       |                   | DNW     | 01     |          |      |        | OCF              |       |                     |                    |                     |        |
| 00792         |        | XA119                           | 64  |     |        |           |     |     |             |      |       |       |                   | DNW     | 01     |          |      |        | OCF              |       |                     |                    |                     |        |
| 04577         |        | XA119                           | 65  |     |        |           |     |     |             |      |       |       | M                 | LCMPMDX | 01     | LCMPMDX  | 00   | 1      | OCF              | 01    |                     | 32B                | KCMPMB BUSS         | D04    |
| 00793         |        | XA119                           | 66  |     |        |           |     |     |             |      |       |       |                   | DNW     | 01     |          |      |        | OCF              |       |                     |                    |                     |        |
| 03374         |        | XA119                           | 67  |     |        |           |     |     |             |      |       |       |                   | GND     | 01     |          |      |        | OCF              |       |                     |                    |                     |        |
| 21424         |        | XA119                           | 67  |     |        |           |     |     |             |      |       |       |                   | JDB14G  | 02     |          |      |        | OCF              |       |                     |                    |                     | C07    |
| 21432         |        | XA119                           | 67  |     |        |           |     |     |             |      |       |       |                   | JDB18G  | 02     |          |      |        | OCF              |       |                     |                    |                     | C07    |
| 21438         |        | XA119                           | 67  |     |        |           |     |     |             |      |       |       |                   | JDB21G  | 02     |          |      |        | OCF              |       |                     |                    |                     | C07    |
| 20333         |        | XA119                           | 68  |     |        |           |     |     |             |      |       |       | M                 | LPRGTOX | 01     | LPRGTOX  | 00   | 1      | OCF              | 08    |                     | 34A                |                     |        |
| CONNECTOR     | XA119  | CONTINUED ON THE NEXT PAGE **** |     |     |        |           |     |     |             |      |       |       |                   |         |        |          |      |        |                  |       |                     |                    |                     |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA119  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 35

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | PKT INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | WOM | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECC NO       |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|---------------|---------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|--------------------|--------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |               |         |        |          |      |        |                  |     |                     |                    |                    |              |
| 20312   |        | XA119     | 69  |        |           |     |             |      |       |       | M             | LCMPMOX | 01     | LCMPMOX  | 00   | 1      | DCF              |     | D2                  |                    | 33B                |              |
| 04983   |        | XA119     | 70  |        | XA118     | 70  |             |      | 16B   | 9     |               | SPI004  | 18     | LPRGTOX  | 01   | 1      | DCF              |     | D8                  |                    | 35A                |              |
| 05078   |        | XA119     | 71  |        | XA118     | 71  |             |      | 16B   | 9     |               | SPI009  | 13     | LCMPMOX  | 01   | 1      | DCF              |     | D2                  |                    | 34B                |              |
| 17383   |        | XA119     | 72  |        | XA119     | 52  |             |      | 16B   | 9     |               | WKL TSA | 02     | LCMPMOX  | 01   | 1      | DCF              |     | D1                  |                    | 36A                |              |
| 20556   |        | XA119     | 72  |        |           |     |             |      |       |       | M             | WKL TSA | 01     | LSYSMDX  | 01   | 1      | DCF              |     | D5                  |                    | 36A                |              |
| 20557   |        | XA119     | 72  |        |           |     |             |      |       |       | M             | WKL TSA | 01     | LSYSTDX  | 01   | 1      | DCF              |     | D3                  |                    | 36A                |              |
| 20558   |        | XA119     | 72  |        |           |     |             |      |       |       | M             | WKL TSA | 01     | LPRGTOX  | 01   | 1      | DCF              |     | D7                  |                    | 36A                |              |
| 04903   |        | XA119     | 73  |        | XA118     | 73  |             |      | 16B   | 9     |               | SPI002  | 05     | LSYSTOX  | 01   | 1      | DCF              |     | D4                  |                    | 35B                |              |
| 04942   |        | XA119     | 74  |        | XA119     | 54  |             |      | 16B   | 9     |               | SPI003  | 11     | LSYSMOX  | 01   | 1      | DCF              |     | D6                  |                    | 37A                |              |
| 20335   |        | XA119     | 75  |        |           |     |             |      |       |       | M             | LSYSTOX | 01     | LSYSTOX  | 00   | 1      | DCF              |     | D4                  |                    | 36B                |              |
| 20334   |        | XA119     | 76  |        |           |     |             |      |       |       | M             | LSYSMOX | 01     | LSYSMOX  | 00   | 1      | DCF              |     | D6                  |                    | 38A                |              |
| 03381   |        | XA119     | 77  |        |           |     |             |      |       |       |               | SPP     | 01     |          |      |        |                  |     |                     |                    |                    |              |
| 04362   |        | XA119     | 78  |        | XA117     | 78  |             |      | 16B   | 9     |               | LSYSTDX | 02     | KSYS TB  | 02   | 1      | DCF              |     | D3                  |                    | 37B                |              |
| 04558   |        | XA119     | 78  |        |           |     |             |      |       |       | J             | LSYSTDX | 01     | LSYSTDX  | 00   | 1      | DCF              |     | D3                  |                    | 37B                | KSYS TB BUSS |
| 03394   |        | XA119     | 79  |        |           |     |             |      |       |       |               | SPP     | 01     |          |      |        |                  |     |                     |                    | 40B                |              |
| 04358   |        | XA119     | 80  |        | XA120     | 36  |             |      | 16B   | 9     |               | LSYSMDX | 04     | KSYS MB  | 02   | 1      | DCF              |     | D5                  |                    | 38B                |              |
| 04597   |        | XA119     | 80  |        |           |     |             |      |       |       | J             | LSYSMDX | 01     | LSYSMDX  | 00   | 1      | DCF              |     | D5                  |                    | 38B                | KSYS MB BUSS |
| 00794   |        | XA120     | 01  |        |           |     |             |      |       |       |               | DNW     | 01     |          |      |        |                  |     |                     |                    |                    |              |
| 00001   |        | XA120     | 02  |        |           |     |             |      |       |       | K             | +05REG  | 02     |          |      |        |                  |     |                     |                    |                    |              |
| 20897   |        | XA120     | 02  |        |           |     |             |      |       |       |               | GNDRES  | 07     |          |      |        |                  |     |                     |                    |                    |              |
| 21142   |        | XA120     | 02  |        |           |     |             |      |       |       |               | GND     | 01     |          |      |        |                  |     |                     |                    |                    |              |
| 03156   |        | XA120     | 03  |        | XA120     | 02  |             |      | 16B   | 9     |               | GNDRES  | 06     |          |      |        |                  |     |                     |                    | AP                 |              |
| 03155   |        | XA120     | 04  |        | XA120     | 03  |             |      | 16B   | 9     |               | GNDRES  | 05     |          |      |        |                  |     |                     |                    | AP                 |              |
| 04057   |        | XA120     | 05  |        |           |     |             |      |       |       |               | KIOPRB  | 05     |          |      |        |                  |     |                     |                    | A3                 |              |
| 03481   |        | XA120     | 06  |        | XA121     | 02  |             |      | 16B   | 9     |               | G12032  | 05     |          |      |        |                  |     |                     |                    | AC                 | B05          |
| 04059   |        | XA120     | 07  |        | XA119     | 01  |             |      | 16B   | 9     |               | KIOTOB  | 01     |          |      |        |                  |     |                     |                    | A4                 |              |
| 04023   |        | XA120     | 08  |        | XA119     | 37  |             |      | 16B   | 9     |               | KIOTOB  | 01     |          |      |        |                  |     |                     |                    | A1                 |              |
| 04361   |        | XA120     | 09  |        | XA119     | 78  |             |      | 16B   | 9     |               | KSYS TB | 01     |          |      |        |                  |     |                     |                    | A5                 |              |
| 04323   |        | XA120     | 10  |        | XA119     | 61  |             |      | 16B   | 9     |               | KPRGTB  | 01     |          |      |        |                  |     |                     |                    | A2                 |              |
| 00795   |        | XA120     | 11  |        |           |     |             |      |       |       |               | DNW     | 01     |          |      |        |                  |     |                     |                    |                    |              |
| 00310   |        | XA120     | 12  |        |           |     |             |      |       |       |               | +5V     | 01     |          |      |        |                  |     |                     |                    |                    |              |
| 03153   |        | XA120     | 13  |        | XA120     | 14  |             |      | 16B   | 9     |               | GNDRES  | 03     |          |      |        |                  |     |                     |                    | BP                 |              |
| 03154   |        | XA120     | 14  |        | XA120     | 04  |             |      | 16B   | 9     |               | GNDRES  | 04     |          |      |        |                  |     |                     |                    | BP                 |              |
| 03848   |        | XA120     | 15  |        |           |     |             |      |       |       |               | DNW     | 01     |          |      |        |                  |     |                     |                    |                    | KEYWAY       |
| 03849   |        | XA120     | 16  |        |           |     |             |      |       |       |               | DNW     | 01     |          |      |        |                  |     |                     |                    |                    | KEYWAY       |
| 04113   |        | XA120     | 17  |        | XA117     | 43  |             |      | 16B   | 9     |               | KMITOB  | 01     |          |      |        |                  |     |                     |                    | B4                 |              |
| 03480   |        | XA120     | 18  |        | XA120     | 06  |             |      | 16B   | 9     |               | G12032  | 04     |          |      |        |                  |     |                     |                    | BC                 | B05          |
| 20227   |        | XA120     | 19  |        | XA107     | 49  |             |      | 16B   | 9     |               | ZODDR1  | 01     |          |      |        |                  |     |                     |                    | B5                 |              |
| 04097   |        | XA120     | 20  |        | XA119     | 17  |             |      | 16B   | 9     |               | KMEPRB  | 01     |          |      |        |                  |     |                     |                    | B1                 |              |
| 03152   |        | XA120     | 21  |        | XA120     | 13  |             |      | 16B   | 9     |               | GNDRES  | 02     |          |      |        |                  |     |                     |                    | CP                 |              |
| 03151   |        | XA120     | 22  |        | XA120     | 21  |             |      | 16B   | 9     |               | GNDRES  | 01     |          |      |        |                  |     |                     |                    | CP                 |              |
| 03828   |        | XA120     | 23  |        |           |     |             |      |       |       |               | KDVBLB  | 05     |          |      |        |                  |     |                     |                    | C3                 |              |
| 04108   |        | XA120     | 24  |        | XA202     | 31  |             |      | 16B   | 9     |               | KMETOB  | 04     |          |      |        |                  |     |                     |                    | B3                 |              |
| 03518   |        | XA120     | 25  |        |           |     |             |      |       |       |               | IOPWRB  | 05     |          |      |        |                  |     |                     |                    | C4                 |              |
| 04075   |        | XA120     | 26  |        |           |     |             |      |       |       |               | KMCPRB  | 05     |          |      |        |                  |     |                     |                    | B2                 |              |
| 00796   |        | XA120     | 27  |        |           |     |             |      |       |       |               | DNW     | 01     |          |      |        |                  |     |                     |                    |                    |              |
| 00797   |        | XA120     | 28  |        |           |     |             |      |       |       |               | +5V     | 01     |          |      |        |                  |     |                     |                    |                    |              |
| 00798   |        | XA120     | 29  |        |           |     |             |      |       |       |               | SPR     | 01     |          |      |        |                  |     |                     |                    |                    | B05          |
| CONNECTOR (XA120) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |               |         |        |          |      |        |                  |     |                     |                    |                    |              |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA120  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 36

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS (AND/OR) | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|----------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | INFO | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                      |                    |        |
| 03477         |        | XA120     | 30                              |      |        |           |     |      |             |      |       |       | G12032  | 03     |          |      |        | RR4              | CC    |                     |                      |                    | B05    |
| 00797         |        | XA120     | 31                              |      | XA120  | 18        |     |      | 16B         | 9    |       |       | DNW     | 01     |          |      |        | RR4              |       |                     |                      |                    |        |
| 01785         |        | XA120     | 32                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | RR4              |       |                     |                      |                    |        |
| 21352         |        | XA120     | 32                              |      | XA120  | 40        |     |      | 16B         | 9    |       |       | G12032  | 01     |          |      |        | RR4              |       |                     |                      |                    | B05    |
| 00013         |        | XA120     | 33                              |      | XA120  | 34        |     |      | 16B         | 9    |       |       | +05RES1 | 015    |          |      |        | RR4              | DP    |                     |                      |                    | B04    |
| 00014         |        | XA120     | 34                              |      | XA120  | 49        |     |      | 16B         | 9    |       |       | +05RES1 | 020    |          |      |        | RR4              | DP    |                     |                      |                    | B04    |
| 04989         |        | XA120     | 35                              |      | XA119  | 50        |     |      | 16B         | 9    |       |       | SPI004  | 24     |          |      |        | RR4              | D3    |                     |                      |                    |        |
| 04359         |        | XA120     | 36                              |      |        |           |     |      |             |      |       |       | KSYSMB  | 05     |          |      |        | RR4              | C1    |                     |                      |                    |        |
| 05007         |        | XA120     | 37                              |      | XA114  | 56        |     |      | 16B         | 9    |       |       | SPI005  | 04     |          |      |        | RR4              | D4    |                     |                      |                    |        |
| 03822         |        | XA120     | 38                              |      |        |           |     |      |             |      |       |       | SPR     | 06     |          |      |        | RR4              | C2    |                     |                      |                    | D04    |
| 05025         |        | XA120     | 39                              |      | XA147  | 06        |     |      | 16B         | 9    |       |       | SPI006  | 02     |          |      |        | RR4              | D5    |                     |                      |                    |        |
| 03476         |        | XA120     | 40                              |      | XA120  | 30        |     |      | 16B         | 9    |       |       | G12032  | 02     |          |      |        | RR4              | DC    |                     |                      |                    | B05    |
| 05132         |        | XA120     | 41                              |      | XA128  | 07        |     |      | 16B         | 9    |       |       | SPI011  | 01     |          |      |        | RR4              | E5    |                     |                      |                    |        |
| 04901         |        | XA120     | 42                              |      | XA119  | 51        |     |      | 16B         | 9    |       |       | SPI002  | 03     |          |      |        | RR4              | D1    |                     |                      |                    |        |
| 00798         |        | XA120     | 43                              |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      |        | RR4              |       |                     |                      |                    |        |
| 00002         |        | XA120     | 44                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | RR4              |       |                     |                      |                    |        |
| 21347         |        | XA120     | 44                              |      |        |           |     |      |             |      |       |       | G12044  | 06     |          |      |        | RR4              |       |                     |                      |                    | B05    |
| 05130         |        | XA120     | 45                              |      | XA122  | 65        |     |      | 16B         | 9    |       |       | SPI010  | 33     |          |      |        | RR4              | E4    |                     |                      |                    |        |
| 04944         |        | XA120     | 46                              |      | XA119  | 38        |     |      | 16B         | 9    |       |       | SPI003  | 13     |          |      |        | RR4              | D2    |                     |                      |                    |        |
| 05093         |        | XA120     | 47                              |      | XA122  | 05        |     |      | 16B         | 9    |       |       | SPI009  | 28     |          |      |        | RR4              | E3    |                     |                      |                    | C10    |
| 05056         |        | XA120     | 48                              |      | XA330  | 19        |     |      | 16B         | 9    |       |       | SPI008  | 04     |          |      |        | RR4              | E2    |                     |                      |                    |        |
| 00015         |        | XA120     | 49                              |      | XA120  | 50        |     |      | 16B         | 9    |       |       | +05RES1 | 025    |          |      |        | RR4              | EP    |                     |                      |                    | B04    |
| 00016         |        | XA120     | 50                              |      | XA120  | 59        |     |      | 16B         | 9    |       |       | +05RES1 | 030    |          |      |        | RR4              | EP    |                     |                      |                    | B04    |
| 05307         |        | XA120     | 51                              |      | XA221  | 18        |     |      | 16B         | 9    |       |       | SPI016  | 03     |          |      |        | RR4              | F5    |                     |                      |                    |        |
| 05041         |        | XA120     | 52                              |      | XA114  | 43        |     |      | 16B         | 9    |       |       | SPI007  | 03     |          |      |        | RR4              | E1    |                     |                      |                    |        |
| 05304         |        | XA120     | 53                              |      |        |           |     |      |             |      |       |       | SPI015  | 35     |          |      |        | RR4              | F4    |                     |                      |                    |        |
| 03473         |        | XA120     | 54                              |      | XA120  | 44        |     |      | 16B         | 9    |       |       | G12044  | 05     |          |      |        | RR4              | EC    |                     |                      |                    | B05    |
| 05242         |        | XA120     | 55                              |      | XA221  | 07        |     |      | 16B         | 9    |       |       | SPI014  | 05     |          |      |        | RR4              | F3    |                     |                      |                    |        |
| 05218         |        | XA120     | 56                              |      | XA206  | 01        |     |      | 16B         | 9    |       |       | SPI013  | 18     |          |      |        | RR4              | F2    |                     |                      |                    |        |
| 03850         |        | XA120     | 57                              |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      |        | RR4              |       |                     |                      |                    | KEYWAY |
| 03851         |        | XA120     | 58                              |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      |        | RR4              |       |                     |                      |                    | KEYWAY |
| 00017         |        | XA120     | 59                              |      | XA120  | 60        |     |      | 16B         | 9    |       |       | +05RES1 | 035    |          |      |        | RR4              | FP    |                     |                      |                    | B04    |
| 00018         |        | XA120     | 60                              |      | XA121  | 70        |     |      | 16B         | 9    |       |       | +05RES1 | 040    |          |      |        | RR4              | FP    |                     |                      |                    | B04    |
| 03629         |        | XA120     | 61                              |      | XA301  | 33        |     |      | 16B         | 9    |       |       | JDB1684 | 03     |          |      |        | RR4              | G5    |                     |                      |                    |        |
| 05200         |        | XA120     | 62                              |      |        |           |     |      |             |      |       |       | SPI012  | 35     |          |      |        | RR4              | F1    |                     |                      |                    |        |
| 03623         |        | XA120     | 63                              |      | XA301  | 31        |     |      | 16B         | 9    |       |       | JDB15B4 | 03     |          |      |        | RR4              | G4    |                     |                      |                    |        |
| 03472         |        | XA120     | 64                              |      | XA120  | 54        |     |      | 16B         | 9    |       |       | G12044  | 04     |          |      |        | RR4              | FC    |                     |                      |                    | B05    |
| 03617         |        | XA120     | 65                              |      | XA301  | 29        |     |      | 16B         | 9    |       |       | JDB14B4 | 03     |          |      |        | RR4              | G3    |                     |                      |                    |        |
| 03611         |        | XA120     | 66                              |      | XA301  | 27        |     |      | 16B         | 9    |       |       | JDB13B4 | 03     |          |      |        | RR4              | G2    |                     |                      |                    |        |
| 00003         |        | XA120     | 67                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | RR4              |       |                     |                      |                    |        |
| 21346         |        | XA120     | 67                              | 1    | XA120  | 77        |     | 1    | 16B         | 9    |       |       | G12044  | 01     |          |      |        | RR4              |       |                     |                      |                    | B05    |
| 21419         |        | XA120     | 67                              |      | XA125  | 32        |     | DQ   | 16B         | 9    |       |       | JDB12G  | 01     |          |      |        | RR4              |       |                     |                      |                    | C07    |
| 21430         |        | XA120     | 67                              |      |        |           |     |      |             |      |       |       | JDB17G  | 02     |          |      |        | RR4              |       |                     |                      |                    | C07    |
| 00799         |        | XA120     | 68                              |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      |        | RR4              |       |                     |                      |                    |        |
| 00203         |        | XA120     | 69                              |      | XA121  | 79        |     |      | 16B         | 9    |       |       | +05VIC  | 10     |          |      |        | RR4              | GP    |                     |                      |                    |        |
| 00204         |        | XA120     | 70                              |      |        |           |     |      |             |      |       |       | SPF     | 01     |          |      |        | RR4              | GP    |                     |                      |                    | +05VIC |
| 03659         |        | XA120     | 71                              |      | XA301  | 43        |     |      | 16B         | 9    |       |       | JDB21B4 | 03     |          |      |        | RR4              | H5    |                     |                      |                    |        |
| 03606         |        | XA120     | 72                              |      | XA125  | 38        |     | DQ   | 16B         | 9    |       |       | JDB12B4 | 04     |          |      |        | RR4              | G1    |                     |                      |                    | C07    |
| 03653         |        | XA120     | 73                              |      | XA301  | 41        |     |      | 16B         | 9    |       |       | JDB20B4 | 03     |          |      |        | RR4              | H4    |                     |                      |                    |        |
| 03469         |        | XA120     | 74                              |      | XA120  | 64        |     |      | 16B         | 9    |       |       | G12044  | 03     |          |      |        | RR4              | GC    |                     |                      |                    | B05    |
| CONNECTOR     |        | XA120     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |         |        |          |      |        |                  |       |                     |                      |                    |        |

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DRAWING NUMBER 149019-880  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

CONNECTOR

UNIT ASSEMBLY NO. 149019  
 FILE IDENT T39BIUX2

REV G INDEX XA120  
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| RECORD NUMBER | FROM   |           |                                 | TO    |        |           | WIRE |       |             |      | SFC INST MISC | SIGNAL | SEQ NO  | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|------|-------|-------------|------|---------------|--------|---------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SH TO | PREFIX | CONNECTOR | PIN  | SH TO | MULTI GROUP | CODE |               |        |         |          |      |        |                  |       |                     |                    |                    |        |
| 03647         |        | XA120     | 75                              |       | XA301  | 39        |      |       |             | 16B  | 9             |        | J0B1984 | 03       |      |        | RR4              | H3    |                     |                    |                    |        |
| 03641         |        | XA120     | 76                              |       | XA301  | 37        |      |       |             | 16B  | 9             |        | JDB1884 | 03       |      |        | RR4              | H2    |                     |                    |                    |        |
| 03467         |        | XA120     | 77                              |       | XA120  | 74        |      |       |             | 16B  | 9             |        | G12044  | 02       |      |        | RR4              | HC    |                     |                    |                    | B05    |
| 03635         |        | XA120     | 78                              |       | XA301  | 35        |      |       |             | 16B  | 9             |        | JDB17B4 | 03       |      |        | RR4              | H1    |                     |                    |                    |        |
| 00202         |        | XA120     | 79                              |       | XA120  | 69        |      |       |             | 16B  | 9             |        | +05VIC  | 09       |      |        | RR4              | HP    |                     |                    |                    | B04    |
| 00201         |        | XA120     | 80                              |       |        |           |      |       |             |      |               |        | SPF     | 01       |      |        | RR4              | HP    |                     |                    | +05VIC             |        |
| 00800         |        | XA121     | 01                              |       |        |           |      |       |             |      |               |        | DNW     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 01786         |        | XA121     | 02                              |       |        |           |      |       |             |      |               |        | GND     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 21345         |        | XA121     | 02                              |       |        |           |      |       |             |      |               |        | G12032  | 06       |      |        | RR4              |       |                     |                    |                    | B05    |
| 21349         |        | XA121     | 02                              |       |        |           |      |       |             |      |               |        | G12102  | 06       |      |        | RR4              |       |                     |                    |                    | B05    |
| 00019         |        | XA121     | 03                              |       | XA204  | 03        |      |       |             | 16B  | 9             |        | +05RES1 | 125      |      |        | RR4              | AP    |                     |                    |                    | B04    |
| 00020         |        | XA121     | 04                              |       | XA121  | 03        |      |       |             | 16B  | 9             |        | +05RES1 | 120      |      |        | RR4              | AP    |                     |                    |                    | B04    |
| 05427         |        | XA121     | 05                              |       |        |           |      |       |             |      |               |        | SPI019  | 28       |      |        | RR4              | A3    |                     |                    |                    |        |
| 03482         |        | XA121     | 06                              |       | XA121  | 02        |      |       |             | 16B  | 9             |        | G12102  | 05       |      |        | RR4              | AC    |                     |                    |                    | B05    |
| 05428         |        | XA121     | 07                              |       | XA248  | 24        |      |       |             | 16B  | 9             |        | SPI020  | 01       |      |        | RR4              | A4    |                     |                    |                    |        |
| 05364         |        | XA121     | 08                              |       |        |           |      |       |             |      |               |        | SPI017  | 33       |      |        | RR4              | A1    |                     |                    |                    |        |
| 05478         |        | XA121     | 09                              |       | XA305  | 08        |      |       |             | 16B  | 9             |        | SPI021  | 23       |      |        | RR4              | A5    |                     |                    |                    | D06    |
| 05399         |        | XA121     | 10                              |       |        |           |      |       |             |      |               |        | SPI018  | 35       |      |        | RR4              | A2    |                     |                    |                    |        |
| 00801         |        | XA121     | 11                              |       |        |           |      |       |             |      |               |        | DNW     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 00312         |        | XA121     | 12                              |       |        |           |      |       |             |      |               |        | +5V     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 00021         |        | XA121     | 13                              |       | XA121  | 04        |      |       |             | 16B  | 9             |        | +05RES1 | 115      |      |        | RR4              | BP    |                     |                    |                    | B04    |
| 00022         |        | XA121     | 14                              |       | XA121  | 13        |      |       |             | 16B  | 9             |        | +05RES1 | 110      |      |        | RR4              | BP    |                     |                    |                    | B04    |
| 03852         |        | XA121     | 15                              |       |        |           |      |       |             |      |               |        | DNW     | 01       |      |        | RR4              |       |                     |                    | KEYWAY             | C04    |
| 03853         |        | XA121     | 16                              |       |        |           |      |       |             |      |               |        | DNW     | 01       |      |        | RR4              |       |                     |                    | KEYWAY             | C04    |
| 05608         |        | XA121     | 17                              |       |        |           |      |       |             |      |               |        | SPI025  | 36       |      |        | RR4              | B4    |                     |                    |                    |        |
| 03479         |        | XA121     | 18                              |       | XA121  | 06        |      |       |             | 16B  | 9             |        | G12102  | 04       |      |        | RR4              | BC    |                     |                    |                    | B05    |
| 05609         |        | XA121     | 19                              |       | XA325  | 01        |      |       |             | 16B  | 9             |        | SPI026  | 01       |      |        | RR4              | B5    |                     |                    |                    |        |
| 05497         |        | XA121     | 20                              |       | XA251  | 01        |      |       |             | 16B  | 9             |        | SPI022  | 10       |      |        | RR4              | B1    |                     |                    |                    |        |
| 00023         |        | XA121     | 21                              |       | XA121  | 14        |      |       |             | 16B  | 9             |        | +05RES1 | 105      |      |        | RR4              | CP    |                     |                    |                    | B04    |
| 00024         |        | XA121     | 22                              |       | XA121  | 21        |      |       |             | 16B  | 9             |        | +05RES1 | 100      |      |        | RR4              | CP    |                     |                    |                    | B04    |
| 05709         |        | XA121     | 23                              |       | XA339  | 06        |      |       |             | 16B  | 9             |        | SPI029  | 01       |      |        | RR4              | C3    |                     |                    |                    |        |
| 05572         |        | XA121     | 24                              |       |        |           |      |       |             |      |               |        | SPI024  | 26       |      |        | RR4              | B3    |                     |                    |                    |        |
| 05743         |        | XA121     | 25                              |       | XA338  | 23        |      |       |             | 16B  | 9             |        | SPI030  | 01       |      |        | RR4              | C4    |                     |                    |                    |        |
| 05546         |        | XA121     | 26                              |       |        |           |      |       |             |      |               |        | SPI023  | 29       |      |        | RR4              | B2    |                     |                    |                    |        |
| 00802         |        | XA121     | 27                              |       |        |           |      |       |             |      |               |        | DNW     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 00313         |        | XA121     | 28                              |       |        |           |      |       |             |      |               |        | +5V     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 05816         |        | XA121     | 29                              |       |        |           |      |       |             |      |               |        | SPI031  | 37       |      |        | RR4              | C5    |                     |                    |                    |        |
| 03478         |        | XA121     | 30                              |       | XA121  | 18        |      |       |             | 16B  | 9             |        | G12102  | 03       |      |        | RR4              | CC    |                     |                    |                    | B05    |
| 00803         |        | XA121     | 31                              |       |        |           |      |       |             |      |               |        | DNW     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 01787         |        | XA121     | 32                              |       |        |           |      |       |             |      |               |        | GND     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 21348         |        | XA121     | 32                              |       | XA121  | 40        |      |       |             | 16B  | 9             |        | G12102  | 01       |      |        | RR4              |       |                     |                    |                    | B05    |
| 00025         |        | XA121     | 33                              |       | XA121  | 22        |      |       |             | 16B  | 9             |        | +05RES1 | 090      |      |        | RR4              | DP    |                     |                    |                    | B04    |
| 00026         |        | XA121     | 34                              |       | XA121  | 33        |      |       |             | 16B  | 9             |        | +05RES1 | 085      |      |        | RR4              | DP    |                     |                    |                    | B04    |
| 05884         |        | XA121     | 35                              |       | XA428  | 05        |      |       |             | 16B  | 9             |        | SPI034  | 01       |      |        | RR4              | D3    |                     |                    |                    |        |
| 05644         |        | XA121     | 36                              |       | XA330  | 22        |      |       |             | 16B  | 9             |        | SPI027  | 01       |      |        | RR4              | C1    |                     |                    |                    |        |
| 05946         |        | XA121     | 37                              |       |        |           |      |       |             |      |               |        | SPI035  | 30       |      |        | RR4              | D4    |                     |                    |                    |        |
| 05676         |        | XA121     | 38                              |       | XA333  | 38        |      |       |             | 16B  | 9             |        | SPI028  | 01       |      |        | RR4              | C2    |                     |                    |                    |        |
| 05982         |        | XA121     | 39                              |       |        |           |      |       |             |      |               |        | SPI036  | 36       |      |        | RR4              | D5    |                     |                    |                    |        |
| CONNECTOR     |        | XA121     | CONTINUED ON THE NEXT PAGE **** |       |        |           |      |       |             |      |               |        |         |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA121  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 38

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |        | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|----------|--------|----------|------|--------|-----------------|-------|---------------------|-------------|--------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH 10 | PREFIX | CONNECTOR | PIN | SH 10 | MULTI GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                 |       |                     | AND         | OR     |                    |        |
| 03475   |        | XA121     | 40  |       | XA121  | 30        |     |       |             | 16B  | 9     |       | G12102   | 02     |          |      |        | RR4             | DC    |                     |             |        | B05                |        |
| 06114   |        | XA121     | 41  |       | XA121  | 29        |     |       |             | 18B  | 9     |       | SPI041   | 01     |          |      |        | RR4             | E5    |                     |             |        | B01                |        |
| 05817   |        | XA121     | 42  |       | XA421  | 08        |     |       |             | 16B  | 9     |       | SPI032   | 01     |          |      |        | RR4             | D1    |                     |             |        |                    |        |
| 00804   |        | XA121     | 43  |       |        |           |     |       |             |      |       |       | DNW      | 01     |          |      |        | RR4             |       |                     |             |        |                    |        |
| 01788   |        | XA121     | 44  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |        | RR4             |       |                     |             |        |                    |        |
| 21351   |        | XA121     | 44  |       |        |           |     |       |             |      |       |       | G12144   | 06     |          |      |        | RR4             |       |                     |             |        | B05                |        |
| 06113   |        | XA121     | 45  |       |        |           |     |       |             |      |       |       | SPI040   | 32     |          |      |        | RR4             | E4    |                     |             |        |                    |        |
| 05883   |        | XA121     | 46  |       |        |           |     |       |             |      |       |       | SPI033   | 32     |          |      |        | RR4             | D2    |                     |             |        |                    |        |
| 06081   |        | XA121     | 47  |       |        |           |     |       |             |      |       |       | SPI039   | 33     |          |      |        | RR4             | E3    |                     |             |        |                    |        |
| 06048   |        | XA121     | 48  |       |        |           |     |       |             |      |       |       | SPI038   | 38     |          |      |        | RR4             | E2    |                     |             |        |                    |        |
| 00027   |        | XA121     | 49  |       | XA121  | 34        |     |       |             | 16B  | 9     |       | +05RES1  | 080    |          |      |        | RR4             | EP    |                     |             |        | B04                |        |
| 00028   |        | XA121     | 50  |       | XA121  | 49        |     |       |             | 16B  | 9     |       | +05RES1  | 075    |          |      |        | RR4             | EP    |                     |             |        | B04                |        |
| 07574   |        | XA121     | 51  |       | XA116  | 10        |     |       |             | 16B  | 9     |       | SPI001   | 35     |          |      |        | RR4             | F5    |                     |             |        | D02                |        |
| 05983   |        | XA121     | 52  |       | XA434  | 11        |     |       |             | 16B  | 9     |       | SPI037   | 01     |          |      |        | RR4             | E1    |                     |             |        |                    |        |
| 06264   |        | XA121     | 53  |       | XA543  | 65        |     |       |             | 18B  | 9     |       | SPI045   | 01     |          |      |        | RR4             | F4    |                     |             |        | B01                |        |
| 03474   |        | XA121     | 54  |       | XA121  | 44        |     |       |             | 16B  | 9     |       | G12144   | 05     |          |      |        | RR4             | EC    |                     |             |        | B05                |        |
| 06225   |        | XA121     | 55  |       | XA544  | 09        |     |       |             | 16B  | 9     |       | SPI044   | 01     |          |      |        | RR4             | F3    |                     |             |        |                    |        |
| 06186   |        | XA121     | 56  |       | XA531  | 15        |     |       |             | 16B  | 9     |       | SPI043   | 01     |          |      |        | RR4             | F2    |                     |             |        |                    |        |
| 03854   |        | XA121     | 57  |       |        |           |     |       |             |      |       |       | DNW      | 01     |          |      |        | RR4             |       |                     |             | KEYWAY | C04                |        |
| 03855   |        | XA121     | 58  |       |        |           |     |       |             |      |       |       | DNW      | 01     |          |      |        | RR4             |       |                     |             | KEYWAY | C04                |        |
| 00029   |        | XA121     | 59  |       | XA121  | 50        |     |       |             | 16B  | 9     |       | +05RES1  | 060    |          |      |        | RR4             | FP    |                     |             |        | B04                |        |
| 00030   |        | XA121     | 60  |       | XA121  | 59        |     |       |             | 16B  | 9     |       | +05RES1  | 055    |          |      |        | RR4             | FP    |                     |             |        | B04                |        |
| 07675   |        | XA121     | 61  |       |        |           |     |       |             |      |       |       | KCMPNDX4 | 05     |          |      |        | RR4             | G5    |                     |             |        | D04                |        |
| 06185   |        | XA121     | 62  |       |        |           |     |       |             |      |       |       | SPI042   | 38     |          |      |        | RR4             | F1    |                     |             |        |                    |        |
| 07676   |        | XA121     | 63  |       |        |           |     |       |             |      |       |       | SPR      | 01     |          |      |        | RR4             | G4    |                     |             |        |                    |        |
| 03471   |        | XA121     | 64  |       | XA121  | 54        |     |       |             | 16B  | 9     |       | G12144   | 04     |          |      |        | RR4             | FC    |                     |             |        | B05                |        |
| 07677   |        | XA121     | 65  |       |        |           |     |       |             |      |       |       | SPR      | 01     |          |      |        | RR4             | G3    |                     |             |        |                    |        |
| 07678   |        | XA121     | 66  |       |        |           |     |       |             |      |       |       | SPR      | 01     |          |      |        | RR4             | G2    |                     |             |        |                    |        |
| 01789   |        | XA121     | 67  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |        | RR4             |       |                     |             |        |                    |        |
| 21350   |        | XA121     | 67  | 1     | XA121  | 77        |     | 1     |             | 16B  | 9     |       | G12144   | 01     |          |      |        | RR4             |       |                     |             |        | B05                |        |
| 21434   |        | XA121     | 67  |       |        |           |     |       |             |      |       |       | JDB19G   | 02     |          |      |        | RR4             |       |                     |             |        | C07                |        |
| 21436   |        | XA121     | 67  |       |        |           |     |       |             |      |       |       | JDB20G   | 02     |          |      |        | RR4             |       |                     |             |        | C07                |        |
| 00805   |        | XA121     | 68  |       |        |           |     |       |             |      |       |       | DNW      | 01     |          |      |        | RR4             |       |                     |             |        |                    |        |
| 00031   |        | XA121     | 69  |       | XA121  | 60        |     |       |             | 16B  | 9     |       | +05RES1  | 050    |          |      |        | RR4             | GP    |                     |             |        | B04                |        |
| 00032   |        | XA121     | 70  |       | XA121  | 69        |     |       |             | 16B  | 9     |       | +05RES1  | 045    |          |      |        | RR4             | GP    |                     |             |        | B04                |        |
| 03594   |        | XA121     | 71  |       | XA125  | 21        |     |       | CY          | 1EB  | 9     |       | JDB10B4  | 04     |          |      |        | RR4             | H5    |                     |             |        | C07                |        |
| 07679   |        | XA121     | 72  |       |        |           |     |       |             |      |       |       | SPR      | 01     |          |      |        | RR4             | G1    |                     |             |        |                    |        |
| 03600   |        | XA121     | 73  |       | XA125  | 27        |     |       | CZ          | 1EB  | 9     |       | JDB11B4  | 04     |          |      |        | RR4             | H4    |                     |             |        | C07                |        |
| 03470   |        | XA121     | 74  |       | XA121  | 64        |     |       |             | 16B  | 9     |       | G12144   | 03     |          |      |        | RR4             | GC    |                     |             |        | B05                |        |
| 07680   |        | XA121     | 75  |       | XA118  | 72        |     |       |             | 16B  | 9     |       | WKLTA    | 005    |          |      |        | RR4             | H3    |                     |             |        |                    |        |
| 03776   |        | XA121     | 76  |       | XA203  | 43        |     |       |             | 16B  | 9     |       | JMTSAB4  | 01     |          |      |        | RR4             | H2    |                     |             |        |                    |        |
| 03468   |        | XA121     | 77  |       | XA121  | 74        |     |       |             | 16B  | 9     |       | G12144   | 02     |          |      |        | RR4             | HC    |                     |             |        | B05                |        |
| 03756   |        | XA121     | 78  |       | XA203  | 31        |     |       |             | 16B  | 9     |       | JIPB04   | 02     |          |      |        | RR4             | H1    |                     |             |        |                    |        |
| 00200   |        | XA121     | 79  |       | XA337  | 21        |     |       |             | 16B  | 9     |       | +05VIC   | 11     |          |      |        | RR4             | HP    |                     |             |        |                    |        |
| 00199   |        | XA121     | 80  |       |        |           |     |       |             |      |       |       | SPF      | 01     |          |      |        | RR4             | HP    |                     |             | +05VIC | B04                |        |
| 16920   |        | XA122     | 01  |       | XA310  | 74        |     |       |             | 16B  | 9     |       | TXAUCA   | 01     | TKC030   | 01   | 1      | TT3             | A2    |                     | 02B         |        |                    |        |
| 01790   |        | XA122     | 02  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |        | TT3             |       |                     | 01B         |        |                    |        |
| 09868   |        | XA122     | 03  |       | XA115  | 10        |     |       |             | 16B  | 9     |       | TCPD4A   | 03     | TKC030   | 01   | 2      | TT3             | A2    |                     | 02A         |        |                    |        |
| CONNECTOR (XA122) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |          |        |          |      |        |                 |       |                     |             |        |                    |        |

DRAWING NUMBER 149019-880  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

CONNECTOR

UNIT ASSEMBLY NO. 149019  
 FILE IDENT T39BIUX2

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| RECORD NUMBER                                     | FROM   |           |     | TO     |        |           | WIRE |    |    |     | SPEC INST MISC | SIGNAL | SEQ NO   | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |        | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|--------|-----------|------|----|----|-----|----------------|--------|----------|----------|--------|--------|------------------|-------|---------------------|-------------|--------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH FTG | PREFIX | CONNECTOR | PIN  | DI | DI | DI  |                |        |          |          |        |        |                  |       |                     | DI          | DI     |                    |        |
| 03475   |        | XA121     | 40  |        | XA121  | 30        |      |    |    | 168 | 9              |        | G12102   | 02       |        |        | RR4              | DC    |                     |             |        | B05                |        |
| 06114   |        | XA121     | 41  |        | XA515  | 29        |      |    |    | 188 | 9              |        | SPI041   | 01       |        |        | RR4              | E5    |                     |             |        | B01                |        |
| 05817   |        | XA121     | 42  |        | XA421  | 08        |      |    |    | 168 | 9              |        | SPI032   | 01       |        |        | RR4              | D1    |                     |             |        |                    |        |
| 00804   |        | XA121     | 43  |        |        |           |      |    |    |     |                |        | DNW      | 01       |        |        | RR4              |       |                     |             |        |                    |        |
| 01788   |        | XA121     | 44  |        |        |           |      |    |    |     |                |        | GND      | 01       |        |        | RR4              |       |                     |             |        |                    |        |
| 21351   |        | XA121     | 44  |        |        |           |      |    |    |     |                |        | G12144   | 06       |        |        | RR4              |       |                     |             |        | B05                |        |
| 06113   |        | XA121     | 45  |        |        |           |      |    |    |     |                |        | SPI040   | 32       |        |        | RR4              | E4    |                     |             |        |                    |        |
| 05883   |        | XA121     | 46  |        |        |           |      |    |    |     |                |        | SPI033   | 32       |        |        | RR4              | D2    |                     |             |        |                    |        |
| 06081   |        | XA121     | 47  |        |        |           |      |    |    |     |                |        | SPI039   | 33       |        |        | RR4              | E3    |                     |             |        |                    |        |
| 06048   |        | XA121     | 48  |        |        |           |      |    |    |     |                |        | SPI038   | 38       |        |        | RR4              | E2    |                     |             |        |                    |        |
| 00027   |        | XA121     | 49  |        | XA121  | 34        |      |    |    | 168 | 9              |        | +05RES1  | 080      |        |        | RR4              | EP    |                     |             |        | B04                |        |
| 00028   |        | XA121     | 50  |        | XA121  | 49        |      |    |    | 168 | 9              |        | +05RES1  | 075      |        |        | RR4              | EP    |                     |             |        | B04                |        |
| 07674   |        | XA121     | 51  |        | XA116  | 10        |      |    |    | 168 | 9              |        | SPI001   | 35       |        |        | RR4              | F5    |                     |             |        | D02                |        |
| 05983   |        | XA121     | 52  |        | XA434  | 11        |      |    |    | 168 | 9              |        | SPI037   | 01       |        |        | RR4              | E1    |                     |             |        |                    |        |
| 06264   |        | XA121     | 53  |        | XA543  | 65        |      |    |    | 188 | 9              |        | SPI045   | 01       |        |        | RR4              | F4    |                     |             |        | B01                |        |
| 03474   |        | XA121     | 54  |        | XA121  | 44        |      |    |    | 168 | 9              |        | G12144   | 05       |        |        | RR4              | EC    |                     |             |        | B05                |        |
| 06225   |        | XA121     | 55  |        | XA544  | 09        |      |    |    | 168 | 9              |        | SPI044   | 01       |        |        | RR4              | F3    |                     |             |        |                    |        |
| 06186   |        | XA121     | 56  |        | XA531  | 15        |      |    |    | 168 | 9              |        | SPI043   | 01       |        |        | RR4              | F2    |                     |             |        |                    |        |
| 03854   |        | XA121     | 57  |        |        |           |      |    |    |     |                |        | DNW      | 01       |        |        | RR4              |       |                     |             | KEYWAY | C04                |        |
| 03855   |        | XA121     | 58  |        |        |           |      |    |    |     |                |        | DNW      | 01       |        |        | RR4              |       |                     |             | KEYWAY | C04                |        |
| 00029   |        | XA121     | 59  |        | XA121  | 50        |      |    |    | 168 | 9              |        | +05RES1  | 060      |        |        | RR4              | FP    |                     |             |        | B04                |        |
| 00030   |        | XA121     | 60  |        | XA121  | 59        |      |    |    | 168 | 9              |        | +05RES1  | 055      |        |        | RR4              | FP    |                     |             |        | B04                |        |
| 07675   |        | XA121     | 61  |        |        |           |      |    |    |     |                |        | KCMPMDX4 | 05       |        |        | RR4              | G5    |                     |             |        | D04                |        |
| 06185   |        | XA121     | 62  |        |        |           |      |    |    |     |                |        | SPI042   | 38       |        |        | RR4              | F1    |                     |             |        |                    |        |
| 07676   |        | XA121     | 63  |        |        |           |      |    |    |     |                |        | SPR      | 01       |        |        | RR4              | G4    |                     |             |        |                    |        |
| 03471   |        | XA121     | 64  |        | XA121  | 54        |      |    |    | 168 | 9              |        | G12144   | 04       |        |        | RR4              | FC    |                     |             |        | B05                |        |
| 07677   |        | XA121     | 65  |        |        |           |      |    |    |     |                |        | SPR      | 01       |        |        | RR4              | G3    |                     |             |        |                    |        |
| 07678   |        | XA121     | 66  |        |        |           |      |    |    |     |                |        | SPR      | 01       |        |        | RR4              | G2    |                     |             |        |                    |        |
| 01789   |        | XA121     | 67  |        |        |           |      |    |    |     |                |        | GND      | 01       |        |        | RR4              |       |                     |             |        |                    |        |
| 21350   |        | XA121     | 67  | 1      | XA121  | 77        |      | 1  |    | 168 | 9              |        | G12144   | 01       |        |        | RR4              |       |                     |             |        | B05                |        |
| 21434   |        | XA121     | 67  |        |        |           |      |    |    |     |                |        | JDB19G   | 02       |        |        | RR4              |       |                     |             |        | C07                |        |
| 21436   |        | XA121     | 67  |        |        |           |      |    |    |     |                |        | JDB20G   | 02       |        |        | RR4              |       |                     |             |        | C07                |        |
| 00805   |        | XA121     | 68  |        |        |           |      |    |    |     |                |        | DNW      | 01       |        |        | RR4              |       |                     |             |        |                    |        |
| 00031   |        | XA121     | 69  |        | XA121  | 60        |      |    |    | 168 | 9              |        | +05RES1  | 050      |        |        | RR4              | GP    |                     |             |        | B04                |        |
| 00032   |        | XA121     | 70  |        | XA121  | 69        |      |    |    | 168 | 9              |        | +05RES1  | 045      |        |        | RR4              | GP    |                     |             |        | B04                |        |
| 03594   |        | XA121     | 71  |        | XA125  | 21        |      | CY |    | 1E8 | 9              |        | JDB1084  | 04       |        |        | RR4              | H5    |                     |             |        | C07                |        |
| 07679   |        | XA121     | 72  |        |        |           |      |    |    |     |                |        | SPR      | 01       |        |        | RR4              | G1    |                     |             |        |                    |        |
| 03600   |        | XA121     | 73  |        | XA125  | 27        |      | CZ |    | 1E8 | 9              |        | JDB1184  | 04       |        |        | RR4              | H4    |                     |             |        | C07                |        |
| 03470   |        | XA121     | 74  |        | XA121  | 64        |      |    |    | 168 | 9              |        | G12144   | 03       |        |        | RR4              | GC    |                     |             |        | B05                |        |
| 07680   |        | XA121     | 75  |        | XA118  | 72        |      |    |    | 168 | 9              |        | WKL TSA  | 005      |        |        | RR4              | H3    |                     |             |        |                    |        |
| 03776   |        | XA121     | 76  |        | XA203  | 43        |      |    |    | 168 | 9              |        | JMTSAB4  | 01       |        |        | RR4              | H2    |                     |             |        |                    |        |
| 03468   |        | XA121     | 77  |        | XA121  | 74        |      |    |    | 168 | 9              |        | G12144   | 02       |        |        | RR4              | HC    |                     |             |        | B05                |        |
| 03756   |        | XA121     | 78  |        | XA203  | 31        |      |    |    | 168 | 9              |        | JPEBD4   | 02       |        |        | RR4              | H1    |                     |             |        |                    |        |
| 00200   |        | XA121     | 79  |        | XA337  | 21        |      |    |    | 168 | 9              |        | +05VIC   | 11       |        |        | RR4              | HP    |                     |             |        |                    |        |
| 00199   |        | XA121     | 80  |        |        |           |      |    |    |     |                |        | SPF      | 01       |        |        | RR4              | HP    |                     |             | +05VIC | B04                |        |
| 16920   |        | XA122     | 01  |        | XA310  | 74        |      |    |    | 168 | 9              |        | TXAUCA   | 01       | TKC030 | 01     | 1                | TT3   | A2                  |             | 02B    |                    |        |
| 01790   |        | XA122     | 02  |        |        |           |      |    |    |     |                |        | GND      | 01       |        |        | TT3              |       |                     |             | 01B    |                    |        |
| 09868   |        | XA122     | 03  |        | XA115  | 10        |      |    |    | 168 | 9              |        | TCPD4A   | 03       | TKC030 | 01     | 2                | TT3   | A2                  |             | 02A    |                    |        |
| CONNECTOR (XA122) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |           |      |    |    |     |                |        |          |          |        |        |                  |       |                     |             |        |                    |        |

DRAWING NUMBER 149019-880  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

CONNECTOR

UNIT ASSEMBLY NO. 149019  
 FILE IDENT T39BIUX2

REV G INDEX XA122  
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| RECORD NUMBER                                     | FROM   |           |     | INFO | TO     |           |     | WIRE        |      |       |       | PARTS IN ASSEMBLY | SIGNAL | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GRP | LOAD OR POWER PLANE | TEST POINTS LETTER AND/OR | SIGNAL DESCRIPTION | C/O NO |
|---|--------|-----------|-----|------|--------|-----------|-----|-------------|------|-------|-------|-------------------|--------|--------|----------|------|------|------------------|-----|---------------------|---------------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |      | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |                   |        |        |          |      |      |                  |     |                     |                           |                    |        |
| 15686   |        | XA122     | 54  |      |        |           |     |             |      |       |       |                   | TSTB2A | 02     | TSTBR0   | 01   | 2    | TT3              | E1  |                     | 29A                       |                    |        |
| 13613   |        | XA122     | 55  |      | XA206  | 24        |     | 16B         | 9    |       |       |                   | TI23E0 | 01     | TI23E0   | 00   | 1    | TT3              | E2  |                     | 29B                       |                    |        |
| 15688   |        | XA122     | 56  |      |        |           |     |             |      |       |       |                   | TSTB3A | 02     | TSTBR0   | 01   | 3    | TT3              | D1  |                     | 24A                       |                    |        |
| 13359   |        | XA122     | 57  |      | XA405  | 74        |     | 16B         | 9    |       |       |                   | TINDCQ | 01     | TITRIA   | 01   | 1    | TT3              | E3  |                     | 30B                       |                    |        |
| 01794   |        | XA122     | 58  |      |        |           |     |             |      |       |       |                   | GND    | 01     |          |      |      | TT3              |     |                     | 40B                       |                    |        |
| 13342   |        | XA122     | 59  |      | XA206  | 79        |     | 16B         | 9    |       |       |                   | TINDBQ | 06     | TITRIA   | 01   | 2    | TT3              | E3  |                     | 31B                       | C06                |        |
| 13634   |        | XA122     | 60  |      |        |           |     |             |      |       |       |                   | TI30BP | 06     | TI23E0   | 01   | 2    | TT3              | E2  |                     | 29A                       |                    |        |
| 13463   |        | XA122     | 61  |      | XA112  | 31        |     | 16B         | 9    |       |       |                   | TITRA0 | 01     | TITRIA   | 01   | 3    | TT3              | E3  |                     | 32B                       |                    |        |
| 13586   |        | XA122     | 62  |      |        |           |     |             |      |       |       |                   | TI20CA | 06     | TI23E0   | 01   | 3    | TT3              | E2  |                     | 29A                       |                    |        |
| 13472   |        | XA122     | 63  |      | XA206  | 38        |     | 16B         | 9    |       |       |                   | TITRIA | 01     | TITRIA   | 00   | 1    | TT3              | E3  |                     | 33B                       |                    |        |
| 14551   |        | XA122     | 64  |      | XA151  | 54        |     | 16B         | 9    |       |       |                   | TM0410 | 01     | TM0410   | 00   | 1    | TT3              | E1  |                     | 30A                       |                    |        |
| 05131   |        | XA122     | 65  |      |        |           |     |             |      |       |       |                   | SPIO10 | 34     |          | 01   | 1    | TT3              | F2  |                     | 34B                       |                    |        |
| 14542   |        | XA122     | 66  |      | XA115  | 30        |     | 16B         | 9    |       |       |                   | TM400A | 03     | TM0410   | 01   | 1    | TT3              | E1  |                     | 31A                       | 005                |        |
| 01795   |        | XA122     | 67  |      |        |           |     |             |      |       |       |                   | GND    | 01     |          |      |      | TT3              |     |                     |                           |                    |        |
| 21415   |        | XA122     | 67  |      | XA124  | 16        |     | 1EB         | 0    | CY    |       |                   | JDB10G | 01     |          |      |      | TT3              |     |                     |                           | C07                |        |
| 21417   |        | XA122     | 67  |      | XA125  | 32        |     | 1EB         | 0    | CZ    |       |                   | JDB11G | 01     |          |      |      | TT3              |     |                     |                           | C07                |        |
| 14570   |        | XA122     | 68  |      |        |           |     |             |      |       |       |                   | TM06BP | 04     | TM0410   | 01   | 2    | TT3              | E1  |                     | 32A                       |                    |        |
| 09509   |        | XA122     | 69  |      | XA137  | 54        |     | 16B         | 9    |       |       |                   | TCBCA0 | 02     | TDLI2A   | 01   | 1    | TT3              | F3  |                     | 35A                       |                    |        |
| 14593   |        | XA122     | 70  |      | XA150  | 15        |     | 16B         | 9    |       |       |                   | TM3NPA | 01     | TM0410   | 01   | 3    | TT3              | E1  |                     | 33A                       |                    |        |
| 05077   |        | XA122     | 71  |      | XA119  | 71        |     | 16B         | 9    |       |       |                   | SPI009 | 12     |          | 01   | 2    | TT3              | F2  |                     | 36A                       |                    |        |
| 04954   |        | XA122     | 72  |      | XA128  | 71        |     | 16B         | 9    |       |       |                   | SPI003 | 23     |          | 01   | 3    | TT3              | F2  |                     | 34A                       |                    |        |
| 10966   |        | XA122     | 73  |      |        |           |     |             |      |       |       |                   | TDLI1A | 02     | TDLI1A   | 00   | 1    | TT3              | F1  |                     | 36B                       | DIGNOSTIC FAIL IN  |        |
| 07845   |        | XA122     | 74  |      |        |           |     |             |      |       |       |                   | SPO    | 01     |          | 00   | 1    | TT3              | F2  |                     | 35B                       |                    |        |
| 09284   |        | XA122     | 75  |      |        |           |     |             |      |       |       |                   | TBY1CA | 03     | TDLI1A   | 01   | 1    | TT3              | F1  |                     | 37B                       |                    |        |
| 09289   |        | XA122     | 76  |      |        |           |     |             |      |       |       |                   | TBY2CA | 03     | TDLI2A   | 01   | 2    | TT3              | F3  |                     | 37A                       |                    |        |
| 09508   |        | XA122     | 77  |      | XA122  | 69        |     | 16B         | 9    |       |       |                   | TCBCA0 | 01     | TDLI1A   | 01   | 2    | TT3              | F1  |                     | 38B                       |                    |        |
| 08711   |        | XA122     | 78  |      | XA134  | 71        |     | 16B         | 9    |       |       |                   | YBB2A0 | 01     | TDLI2A   | 01   | 3    | TT3              | F3  |                     | 38A                       |                    |        |
| 08701   |        | XA122     | 79  |      | XA134  | 75        |     | 16B         | 9    |       |       |                   | TBB1A0 | 01     | TDLI1A   | 01   | 3    | TT3              | F1  |                     | 39B                       |                    |        |
| 10967   |        | XA122     | 80  |      | XA345  | 66        |     | 16B         | 9    |       |       |                   | TDLI2A | 01     | TDLI2A   | 00   | 1    | TT3              | F3  |                     | 39A                       | DIGNOSTIC FAIL IN  |        |
| 11652   |        | XA123     | 01  |      | XA227  | 68        |     | 16B         | 9    |       |       |                   | TD094A | 01     | TD094A   | 00   | 1    | TQ2              | A2  |                     | 02B                       | DATA BUS XFER BI   |        |
| 01796   |        | XA123     | 02  |      |        |           |     |             |      |       |       |                   | GND    | 01     |          |      |      | TQ2              |     |                     | 01A                       |                    |        |
| 09827   |        | XA123     | 03  |      | XA123  | 05        |     | 16B         | 9    |       |       |                   | TCPOB0 | 01     | TD104A   | 01   | 1    | TQ2              | A3  |                     | 02A                       |                    |        |
| 09544   |        | XA123     | 04  |      |        |           |     |             |      |       |       |                   | TCB090 | 02     | TD094A   | 01   | 1    | TQ2              | A2  |                     | 04A                       |                    |        |
| 09828   |        | XA123     | 05  |      | XA123  | 13        |     | 16B         | 9    |       |       |                   | TCPOB0 | 02     | TD094A   | 01   | 2    | TQ2              | A2  |                     | 03B                       |                    |        |
| 11621   |        | XA123     | 06  |      | XA228  | 68        |     | 16B         | 9    |       |       |                   | TD084A | 01     | TD084A   | 00   | 1    | TQ2              | A1  |                     | 05A                       | DATA BUS XFER BI   |        |
| 09545   |        | XA123     | 07  |      | XA125  | 19        |     | 16B         | 9    |       |       |                   | TCB100 | 01     | TD104A   | 01   | 2    | TQ2              | A3  |                     | 03A                       |                    |        |
| 09817   |        | XA123     | 08  |      | XA124  | 55        |     | 16B         | 9    |       |       |                   | TCPOA0 | 02     | TD084A   | 01   | 1    | TQ2              | A1  |                     | 06A                       |                    |        |
| 11683   |        | XA123     | 09  |      | XA228  | 79        |     | 16B         | 9    |       |       |                   | TD104A | 01     | TD104A   | 00   | 1    | TQ2              | A3  |                     | 04B                       | DATA BUS XFER BI   |        |
| 09541   |        | XA123     | 10  |      | XA125  | 18        |     | 16B         | 9    |       |       |                   | TCB080 | 01     | TD084A   | 01   | 2    | TQ2              | A1  |                     | 07A                       |                    |        |
| 09548   |        | XA123     | 11  |      |        |           |     |             |      |       |       |                   | TCB110 | 02     | TD114A   | 01   | 1    | TQ2              | A4  |                     | 05B                       |                    |        |
| 00316   |        | XA123     | 12  |      |        |           |     |             |      |       |       |                   | +5V    | 01     |          |      |      | TQ2              |     |                     |                           |                    |        |
| 09829   |        | XA123     | 13  |      | XA123  | 17        |     | 16B         | 9    |       |       |                   | TCPOB0 | 03     | TD114A   | 01   | 2    | TQ2              | A4  |                     | 06B                       |                    |        |
| 11782   |        | XA123     | 14  |      | XA222  | 08        |     | 16B         | 9    |       |       |                   | TD134A | 01     | TD134A   | 00   | 1    | TQ2              | B2  |                     | 09A                       | DATA BUS XFER BI   |        |
| 11714   |        | XA123     | 15  |      | XA424  | 62        |     | 16B         | 9    |       |       |                   | TD114A | 01     | TD114A   | 00   | 1    | TQ2              | A4  |                     | 07B                       | DATA BUS XFER BI   |        |
| 01797   |        | XA123     | 16  |      |        |           |     |             |      |       |       |                   | GND    | 01     |          |      |      | TQ2              |     |                     | 01B                       |                    |        |
| 09830   |        | XA123     | 17  |      | XA123  | 20        |     | 16B         | 9    |       |       |                   | TCPOB0 | 04     | TD144A   | 01   | 1    | TQ2              | B3  |                     | 08B                       |                    |        |
| 09552   |        | XA123     | 18  |      |        |           |     |             |      |       |       |                   | TCB130 | 02     | TD134A   | 01   | 1    | TQ2              | B2  |                     | 10A                       |                    |        |
| 09553   |        | XA123     | 19  |      | XA125  | 34        |     | 16B         | 9    |       |       |                   | TCB140 | 01     | TD144A   | 01   | 2    | TQ2              | B3  |                     | 09B                       |                    |        |
| CONNECTOR (XA123) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |             |      |       |       |                   |        |        |          |      |      |                  |     |                     |                           |                    |        |

3-2879-1

DRAWING NUMBER 149019-880

CONNECTOR

UNIT ASSEMBLY NO. 149019

REV G

INDEX XA123

UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

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| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH TO | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 09831   |        | XA123     | 20  |       | XA123  | 26        |     |       | 16B         | 9    |       |       | TCPDB0 | 05     | TD134A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 11815   |        | XA123     | 21  |       | XA222  | 24        |     |       | 16B         | 9    |       |       | TD144A | 01     | TD144A   | 00   | 1      | TQ2              | B3    |                     | 10B                | DATA BUS XFER BI   |        |
| 11749   |        | XA123     | 22  |       | XA424  | 73        |     |       | 16B         | 9    |       |       | TD124A | 01     | TD124A   | 00   | 1      | TQ2              | B1    |                     | 12A                | DATA BUS XFER BI   |        |
| 09833   |        | XA123     | 23  |       | XA123  | 29        |     |       | 16B         | 9    |       |       | TCPDB0 | 07     | TD154A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 09549   |        | XA123     | 24  |       | XA125  | 40        |     |       | 16B         | 9    |       |       | TCB120 | 01     | TD124A   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 09556   |        | XA123     | 25  |       |        |           |     |       |             |      |       |       | TCB150 | 02     | TD154A   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 09832   |        | XA123     | 26  |       | XA123  | 23        |     |       | 16B         | 9    |       |       | TCPDB0 | 06     | TD124A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 11848   |        | XA123     | 27  |       | XA221  | 08        |     |       | 16B         | 9    |       |       | TD154A | 01     | TD154A   | 00   | 1      | TQ2              | B4    |                     | 13B                | DATA BUS XFER BI   |        |
| 00317   |        | XA123     | 28  |       |        |           |     |       |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 09834   |        | XA123     | 29  |       | XA123  | 34        |     |       | 16B         | 9    |       |       | TCPDB0 | 08     | TD184A   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 11923   |        | XA123     | 30  |       | XA221  | 24        |     |       | 16B         | 9    |       |       | TD174A | 01     | TD174A   | 00   | 1      | TQ2              | C2    |                     | 15A                | DATA BUS XFER BI   |        |
| 09561   |        | XA123     | 31  |       | XA125  | 54        |     |       | 16B         | 9    |       |       | TCB180 | 01     | TD184A   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 01798   |        | XA123     | 32  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 11959   |        | XA123     | 33  |       | XA222  | 54        |     |       | 16B         | 9    |       |       | TD184A | 01     | TD184A   | 00   | 1      | TQ2              | C3    |                     | 16B                | DATA BUS XFER BI   |        |
| 09835   |        | XA123     | 34  |       | XA123  | 42        |     |       | 16B         | 9    |       |       | TCPDB0 | 09     | TD174A   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 09564   |        | XA123     | 35  |       |        |           |     |       |             |      |       |       | TCB190 | 02     | TD194A   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 09560   |        | XA123     | 36  |       |        |           |     |       |             |      |       |       | TCB170 | 02     | TD174A   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 09839   |        | XA123     | 37  |       | XA123  | 41        |     |       | 16B         | 9    |       |       | TCPDC0 | 02     | TD194A   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 11884   |        | XA123     | 38  |       | XA222  | 38        |     |       | 16B         | 9    |       |       | TD164A | 01     | TD164A   | 00   | 1      | TQ2              | C1    |                     | 18A                | DATA BUS XFER BI   |        |
| 11991   |        | XA123     | 39  |       | XA221  | 42        |     |       | 16B         | 9    |       |       | TD194A | 01     | TD194A   | 00   | 1      | TQ2              | C4    |                     | 19B                | DATA BUS XFER BI   |        |
| 09557   |        | XA123     | 40  |       | XA125  | 31        |     |       | 16B         | 9    |       |       | TCB160 | 01     | TD164A   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 09840   |        | XA123     | 41  |       | XA123  | 47        |     |       | 16B         | 9    |       |       | TCPOC0 | 03     | TD224A   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 09836   |        | XA123     | 42  |       | XA134  | 43        |     |       | 16B         | 9    |       |       | TCPDB0 | 10     | TD164A   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 09569   |        | XA123     | 43  |       | XA125  | 43        |     |       | 16B         | 9    |       |       | TCB220 | 01     | TD224A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 01799   |        | XA123     | 44  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 12094   |        | XA123     | 45  |       | XA222  | 74        |     |       | 16B         | 9    |       |       | TD224A | 01     | TD224A   | 00   | 1      | TQ2              | D3    |                     | 24B                | DATA BUS XFER BI   |        |
| 12058   |        | XA123     | 46  |       | XA221  | 50        |     |       | 16B         | 9    |       |       | TD214A | 01     | TD214A   | 00   | 1      | TQ2              | D2    |                     | 21A                | DATA BUS XFER BI   |        |
| 09841   |        | XA123     | 47  |       | XA123  | 48        |     |       | 16B         | 9    |       |       | TCPDC0 | 04     | TD234A   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 09842   |        | XA123     | 48  |       | XA123  | 54        |     |       | 16B         | 9    |       |       | TCPOC0 | 05     | TD214A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 09572   |        | XA123     | 49  |       |        |           |     |       |             |      |       |       | TCB230 | 02     | TD234A   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 09568   |        | XA123     | 50  |       |        |           |     |       |             |      |       |       | TCB210 | 02     | TD214A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 12129   |        | XA123     | 51  |       | XA221  | 64        |     |       | 16B         | 9    |       |       | TD234A | 01     | TD234A   | 00   | 1      | TQ2              | D4    |                     | 27B                | DATA BUS XFER BI   |        |
| 12022   |        | XA123     | 52  |       | XA222  | 64        |     |       | 16B         | 9    |       |       | TD204A | 01     | TD204A   | 00   | 1      | TQ2              | D1    |                     | 24A                | DATA BUS XFER BI   |        |
| 09578   |        | XA123     | 53  |       | XA125  | 60        |     |       | 16B         | 9    |       |       | TCB260 | 01     | TD264A   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 09843   |        | XA123     | 54  |       | XA123  | 55        |     |       | 16B         | 9    |       |       | TCPOC0 | 06     | TD204A   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 09844   |        | XA123     | 55  |       | XA123  | 61        |     |       | 16B         | 9    |       |       | TCPOC0 | 07     | TD264A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 09565   |        | XA123     | 56  |       | XA125  | 48        |     |       | 16B         | 9    |       |       | TCB200 | 01     | TD204A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 12239   |        | XA123     | 57  |       |        |           |     |       |             |      |       |       | TD264A | 02     | TD264A   | 00   | 1      | TQ2              | E3    |                     | 30B                | DATA BUS XFER BI   |        |
| 01800   |        | XA123     | 58  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 09583   |        | XA123     | 59  |       | XA440  | 47        |     |       | 16B         | 9    |       |       | TCB270 | 01     | TD274A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 12202   |        | XA123     | 60  |       |        |           |     |       |             |      |       |       | TD254A | 02     | TD254A   | 00   | 1      | TQ2              | E2    |                     | 28A                | DATA BUS XFER BI   |        |
| 09845   |        | XA123     | 61  |       | XA123  | 62        |     |       | 16B         | 9    |       |       | TCPOC0 | 08     | TD274A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 09846   |        | XA123     | 62  |       | XA123  | 68        |     |       | 16B         | 9    |       |       | TCPOC0 | 09     | TD254A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 12278   |        | XA123     | 63  |       |        |           |     |       |             |      |       |       | TD274A | 02     | TD274A   | 00   | 1      | TQ2              | E4    |                     | 33B                | DATA BUS XFER BI   |        |
| 09577   |        | XA123     | 64  |       |        |           |     |       |             |      |       |       | TCB250 | 03     | TD254A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 09590   |        | XA123     | 65  |       | XA438  | 65        |     |       | 16B         | 9    |       |       | TCB300 | 01     | TD304A   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 12165   |        | XA123     | 66  |       |        |           |     |       |             |      |       |       | TD244A | 02     | TD244A   | 00   | 1      | TQ2              | E1    |                     | 31A                | DATA BUS XFER BI   |        |
| 01801   |        | XA123     | 67  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 09847   |        | XA123     | 68  |       | XA123  | 79        |     |       | 16B         | 9    |       |       | TCPOC0 | 10     | TD244A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 12385   |        | XA123     | 69  |       |        |           |     |       |             |      |       |       | TD304A | 02     | TD304A   | 00   | 1      | TQ2              | F3    |                     | 35A                | DATA BUS XFER BI   |        |
| CONNECTOR (XA123) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

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TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

CONNECTOR

UNIT ASSEMBLY NO. 149019  
 FILE IDENT T39BIUX2

REV G INDEX XA123  
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| RECORD NUMBER | FROM   |           |                                 |       | TO     |           |     |       | WIRE        |      |       |       | SPEC INST | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|-------|-------|-----------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SH 12 | PREFIX | CONNECTOR | PIN | SH 12 | MULTI GROUP | CODE | COLOR | IDENT |           |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 09573         |        | XA123     | 70                              |       | XA125  | 66        |     |       |             | 16B  | 9     |       | TCB240    | 01     | TD244A | 01       | 2    | TQ2    | E1               |       | 33A                 |                    |                    |        |
| 09851         |        | XA123     | 71                              |       | XA134  | 64        |     |       |             | 16B  | 9     |       | TCPDD0    | 03     | TD294A | 01       | 1    | TQ2    | F2               |       | 36A                 |                    |                    |        |
| 12348         |        | XA123     | 72                              |       |        |           |     |       |             |      |       |       | TD294A    | 02     | TD294A | 00       | 1    | TQ2    | F2               |       | 34A                 | DATA BUS XFER BI   |                    |        |
| 09589         |        | XA123     | 73                              |       |        |           |     |       |             |      |       |       | TCB290    | 03     | TD294A | 01       | 2    | TQ2    | F2               |       | 36B                 |                    |                    |        |
| 09850         |        | XA123     | 74                              |       | XA123  | 71        |     |       |             | 16B  | 9     |       | TCPDD0    | 02     | TD304A | 01       | 2    | TQ2    | F3               |       | 35B                 |                    |                    |        |
| 12313         |        | XA123     | 75                              |       |        |           |     |       |             |      |       |       | TD284A    | 02     | TD284A | 00       | 1    | TQ2    | F1               |       | 37B                 | DATA BUS XFER BI   |                    |        |
| 09594         |        | XA123     | 76                              |       | XA440  | 76        |     |       |             | 16B  | 9     |       | TCB310    | 02     | TD314A | 01       | 1    | TQ2    | F4               |       | 37A                 |                    |                    |        |
| 09585         |        | XA123     | 77                              |       | XA440  | 53        |     |       |             | 16B  | 9     |       | TCB280    | 02     | TD284A | 01       | 1    | TQ2    | F1               |       | 38B                 |                    |                    |        |
| 09849         |        | XA123     | 78                              |       | XA123  | 74        |     |       |             | 16B  | 9     |       | TCPDD0    | 01     | TD314A | 01       | 2    | TQ2    | F4               |       | 38A                 |                    |                    |        |
| 09848         |        | XA123     | 79                              |       |        |           |     |       |             |      |       |       | TCPDO0    | 11     | TD284A | 01       | 2    | TQ2    | F1               |       | 39B                 |                    |                    |        |
| 12421         |        | XA123     | 80                              |       |        |           |     |       |             |      |       |       | TD314A    | 02     | TD314A | 00       | 1    | TQ2    | F4               |       | 39A                 | DATA BUS XFER BI   |                    |        |
| 11218         |        | XA124     | 01                              |       | XA220  | 35        |     |       |             | 16B  | 9     |       | TDS170    | 01     | TDS170 | 00       | 1    | TQ2    | A2               |       | 02B                 | PRESET INPUT TD    |                    |        |
| 01802         |        | XA124     | 02                              |       |        |           |     |       |             |      |       |       | GND       | 01     |        |          |      | TQ2    |                  |       | 01A                 |                    |                    |        |
| 15172         |        | XA124     | 03                              |       |        |           |     |       |             |      |       |       | TQ180A    | 02     | TDS180 | 01       | 1    | TQ2    | A3               |       | 02A                 |                    |                    |        |
| 11911         |        | XA124     | 04                              |       |        |           |     |       |             |      |       |       | TD17SA    | 02     | TDS170 | 01       | 1    | TQ2    | A2               |       | 04A                 |                    |                    |        |
| 15169         |        | XA124     | 05                              |       | XA133  | 06        |     |       |             | 16B  | 9     |       | TQ170A    | 01     | TDS170 | 01       | 2    | TQ2    | A2               |       | 03B                 |                    |                    |        |
| 11214         |        | XA124     | 06                              |       | XA220  | 38        |     |       |             | 16B  | 9     |       | TDS160    | 01     | TDS160 | 00       | 1    | TQ2    | A1               |       | 05A                 | PRESET INPUT TD    |                    |        |
| 11947         |        | XA124     | 07                              |       |        |           |     |       |             |      |       |       | TD18SA    | 02     | TDS180 | 01       | 2    | TQ2    | A3               |       | 03A                 |                    |                    |        |
| 11872         |        | XA124     | 08                              |       |        |           |     |       |             |      |       |       | TD16SA    | 02     | TDS160 | 01       | 1    | TQ2    | A1               |       | 06A                 |                    |                    |        |
| 11222         |        | XA124     | 09                              |       | XA220  | 52        |     |       |             | 16B  | 9     |       | TDS180    | 01     | TDS180 | 00       | 1    | TQ2    | A3               |       | 04B                 | PRESET INPUT TD    |                    |        |
| 15168         |        | XA124     | 10                              |       |        |           |     |       |             |      |       |       | TQ160A    | 02     | TDS160 | 01       | 2    | TQ2    | A1               |       | 07A                 |                    |                    |        |
| 15173         |        | XA124     | 11                              |       | XA133  | 09        |     |       |             | 16B  | 9     |       | TQ190A    | 01     | TDS190 | 01       | 1    | TQ2    | A4               |       | 05B                 |                    |                    |        |
| 00318         |        | XA124     | 12                              |       |        |           |     |       |             |      |       |       | +5V       | 01     |        |          |      | TQ2    |                  |       |                     |                    |                    |        |
| 11979         |        | XA124     | 13                              |       |        |           |     |       |             |      |       |       | TD19SA    | 02     | TDS190 | 01       | 2    | TQ2    | A4               |       | 06B                 |                    |                    |        |
| 11242         |        | XA124     | 14                              |       | XA220  | 73        |     |       |             | 16B  | 9     |       | TDS230    | 01     | TDS230 | 00       | 1    | TQ2    | B2               |       | 09A                 | PRESET INPUT TD    |                    |        |
| 11226         |        | XA124     | 15                              |       | XA220  | 47        |     |       |             | 16B  | 9     |       | TDS190    | 01     | TDS190 | 00       | 1    | TQ2    | A4               |       | 07B                 | PRESET INPUT TD    |                    |        |
| 01803         |        | XA124     | 16                              |       |        |           |     |       |             |      |       |       | GND       | 01     |        |          |      | TQ2    |                  |       | 01B                 |                    |                    |        |
| 21416         |        | XA124     | 16                              |       |        |           |     |       |             |      |       |       | JDB10G    | 02     |        |          |      | TQ2    |                  |       | 01B                 |                    | C07                |        |
| 15183         |        | XA124     | 17                              |       | XA133  | 27        |     |       |             | 16B  | 9     |       | TQ240A    | 01     | TDS240 | 01       | 1    | TQ2    | B3               |       | 08B                 |                    |                    |        |
| 12117         |        | XA124     | 18                              |       |        |           |     |       |             |      |       |       | TD23SA    | 02     | TDS230 | 01       | 1    | TQ2    | B2               |       | 10A                 |                    |                    |        |
| 12151         |        | XA124     | 19                              |       | XA423  | 06        |     |       |             | 16B  | 9     |       | TD24SA    | 01     | TDS240 | 01       | 2    | TQ2    | B3               |       | 09B                 |                    |                    |        |
| 15182         |        | XA124     | 20                              |       |        |           |     |       |             |      |       |       | TQ230A    | 02     | TDS230 | 01       | 2    | TQ2    | B2               |       | 11A                 |                    |                    |        |
| 11246         |        | XA124     | 21                              |       | XA220  | 04        |     |       |             | 16B  | 9     |       | TDS240    | 01     | TDS240 | 00       | 1    | TQ2    | B3               |       | 10B                 | PRESET INPUT TD    |                    |        |
| 11238         |        | XA124     | 22                              |       | XA220  | 79        |     |       |             | 16B  | 9     |       | TDS220    | 01     | TDS220 | 00       | 1    | TQ2    | B1               |       | 12A                 | PRESET INPUT TD    |                    |        |
| 15186         |        | XA124     | 23                              |       |        |           |     |       |             |      |       |       | TQ250A    | 02     | TDS250 | 01       | 1    | TQ2    | B4               |       | 11B                 |                    |                    |        |
| 12082         |        | XA124     | 24                              |       |        |           |     |       |             |      |       |       | TD22SA    | 02     | TDS220 | 01       | 1    | TQ2    | B1               |       | 13A                 |                    |                    |        |
| 12188         |        | XA124     | 25                              |       | XA423  | 01        |     |       |             | 16B  | 9     |       | TD25SA    | 01     | TDS250 | 01       | 2    | TQ2    | B4               |       | 12B                 |                    |                    |        |
| 15179         |        | XA124     | 26                              |       | XA133  | 14        |     |       |             | 16B  | 9     |       | TQ220A    | 01     | TDS220 | 01       | 2    | TQ2    | B1               |       | 14A                 |                    |                    |        |
| 11250         |        | XA124     | 27                              |       | XA220  | 05        |     |       |             | 16B  | 9     |       | TDS250    | 01     | TDS250 | 00       | 1    | TQ2    | B4               |       | 13B                 | PRESET INPUT TD    |                    |        |
| 00319         |        | XA124     | 28                              |       |        |           |     |       |             |      |       |       | +5V       | 01     |        |          |      | TQ2    |                  |       |                     |                    |                    |        |
| 15191         |        | XA124     | 29                              |       | XA133  | 39        |     |       |             | 16B  | 9     |       | TQ280A    | 01     | TDS280 | 01       | 1    | TQ2    | C3               |       | 14B                 |                    |                    |        |
| 11258         |        | XA124     | 30                              |       | XA220  | 17        |     |       |             | 16B  | 9     |       | TDS270    | 01     | TDS270 | 00       | 1    | TQ2    | C2               |       | 15A                 | PRESET INPUT TD    |                    |        |
| 12299         |        | XA124     | 31                              |       | XA423  | 22        |     |       |             | 16B  | 9     |       | TD28SA    | 01     | TDS280 | 01       | 2    | TQ2    | C3               |       | 15B                 |                    |                    |        |
| 01804         |        | XA124     | 32                              |       |        |           |     |       |             |      |       |       | GND       | 01     |        |          |      | TQ2    |                  |       | 20B                 |                    |                    |        |
| 11262         |        | XA124     | 33                              |       | XA220  | 36        |     |       |             | 16B  | 9     |       | TDS280    | 01     | TDS280 | 00       | 1    | TQ2    | C3               |       | 16B                 | PRESET INPUT TD    |                    |        |
| 12264         |        | XA124     | 34                              |       | XA423  | 15        |     |       |             | 16B  | 9     |       | TD27SA    | 01     | TDS270 | 01       | 1    | TQ2    | C2               |       | 16A                 |                    |                    |        |
| 15194         |        | XA124     | 35                              |       |        |           |     |       |             |      |       |       | TQ290A    | 02     | TDS290 | 01       | 1    | TQ2    | C4               |       | 17B                 |                    |                    |        |
| 15190         |        | XA124     | 36                              |       |        |           |     |       |             |      |       |       | TQ270A    | 02     | TDS270 | 01       | 2    | TQ2    | C2               |       | 17A                 |                    |                    |        |
| CONNECTOR     |        | XA124     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |       |       |           |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880

CONNECTOR

UNIT ASSEMBLY NO. 149019

REV G

INDEX XA124

UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

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| RECORD NUMBER                                   | FROM   |           |     | THRU | TO     |           |     | WIRE |             |      |       | SPL INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |      | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |               |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 12334   |        | XA124     | 37  |      | XA423  | 14        |     |      | 16B         | 9    |       | T029SA        | 01     | TDS290 | 01       | 2    | TQ2    | C4               |       |                     | 18B                |                    |        |
| 11254   |        | XA124     | 38  |      | XA220  | 20        |     |      | 16B         | 9    |       | TDS260        | 01     | TDS260 | 00       | 1    | TQ2    | C1               |       |                     | 18A                | PRESET INPUT TO    |        |
| 11266   |        | XA124     | 39  |      | XA220  | 29        |     |      | 16B         | 9    |       | TDS290        | 01     | TDS290 | 00       | 1    | TQ2    | C4               |       |                     | 19B                | PRESET INPUT TO    |        |
| 12225   |        | XA124     | 40  |      | XA423  | 09        |     |      | 16B         | 9    |       | T026SA        | 01     | TDS260 | 01       | 1    | TQ2    | C1               |       |                     | 19A                |                    |        |
| 09244   |        | XA124     | 41  |      | XA423  | 66        |     |      | 16B         | 9    |       | TBS31A        | 01     | TCB310 | 01       | 1    | TQ2    | D3               |       |                     | 22B                |                    |        |
| 15187   |        | XA124     | 42  |      | XA133  | 30        |     |      | 16B         | 9    |       | TQ260A        | 01     | TDS260 | 01       | 2    | TQ2    | C1               |       |                     | 20A                |                    |        |
| 03719   |        | XA124     | 43  |      |        |           |     |      |             |      |       | JDB31B4       | 04     | TCB310 | 01       | 2    | TQ2    | D3               |       |                     | 23B                |                    |        |
| 01805   |        | XA124     | 44  |      |        |           |     |      |             |      |       | GND           | 01     |        |          |      | TQ2    |                  |       |                     | 21B                |                    |        |
| 21435   |        | XA124     | 44  |      | XA121  | 67        |     | DY   | 1EB         | 0    |       | JDB20G        | 01     |        |          |      | TQ2    |                  |       |                     | 21B                |                    | C07    |
| 21451   |        | XA124     | 44  |      |        |           |     |      |             |      |       | JDB28G        | 02     |        |          |      | TQ2    |                  |       |                     | 21B                |                    | C07    |
| 09593   |        | XA124     | 45  |      | XA123  | 76        |     |      | 16B         | 9    |       | TCB310        | 01     | TCB310 | 00       | 1    | TQ2    | D3               |       |                     | 24B                | BIT 31 CPU BUS R   |        |
| 10722   |        | XA124     | 46  |      | XA125  | 79        |     |      | 16B         | 9    |       | TDIG6A        | 01     | TDIG6A | 00       | 1    | TQ2    | D2               |       |                     | 21A                | MEMORY CYCLE OKA   |        |
| 03702   |        | XA124     | 47  |      | XA126  | 75        |     |      | 16B         | 9    |       | JDB28B4       | 04     | TCB280 | 01       | 1    | TQ2    | D4               |       |                     | 25B                | CPU BUSS BIT 28    |        |
| 10716   |        | XA124     | 48  |      | XA145  | 73        |     |      | 16B         | 9    |       | TDIGBR        | 01     | TDIG6A | 01       | 1    | TQ2    | D2               |       |                     | 22A                |                    |        |
| 13649   |        | XA124     | 49  |      | XA137  | 75        |     |      | 16B         | 9    |       | TI311A        | 05     | TCB280 | 01       | 2    | TQ2    | D4               |       |                     | 26B                |                    |        |
| 09297   |        | XA124     | 50  |      | XA141  | 14        |     |      | 16B         | 9    |       | TBZZIO        | 01     | TDIG6A | 01       | 2    | TQ2    | D2               |       |                     | 23A                |                    |        |
| 09584   |        | XA124     | 51  |      | XA123  | 77        |     |      | 16B         | 9    |       | TCB280        | 01     | TCB280 | 00       | 1    | TQ2    | D4               |       |                     | 27B                | BIT 28 CPU BUS R   |        |
| 11147   |        | XA124     | 52  |      |        |           |     |      |             |      |       | TDRS10        | 06     | TDRS10 | 00       | 1    | TQ2    | D1               |       |                     | 24A                | TD RESET MASTER    |        |
| 09529   |        | XA124     | 53  |      | XA125  | 03        |     |      | 16B         | 9    |       | TCB020        | 01     | TD024A | 01       | 1    | TQ2    | E3               |       |                     | 28B                |                    |        |
| 11140   |        | XA124     | 54  |      | XA325  | 33        |     |      | 16B         | 9    |       | TDRS1A        | 01     | TDRS10 | 01       | 1    | TQ2    | D1               |       |                     | 29A                |                    |        |
| 09818   |        | XA124     | 55  |      | XA124  | 61        |     |      | 16B         | 9    |       | TCPDA0        | 03     | TD024A | 01       | 2    | TQ2    | E3               |       |                     | 29B                |                    |        |
| 14223   |        | XA124     | 56  |      | XA143  | 04        |     |      | 16B         | 9    |       | TMRUBA4       | 01     | TDRS10 | 01       | 2    | TQ2    | D1               |       |                     | 26A                |                    |        |
| 11400   |        | XA124     | 57  |      | XA228  | 25        |     |      | 16B         | 9    |       | TD024A        | 01     | TD024A | 00       | 1    | TQ2    | E3               |       |                     | 30R                | DATA BUS XFER BI   |        |
| 01806   |        | XA124     | 58  |      |        |           |     |      |             |      |       | GND           | 01     |        |          |      | TQ2    |                  |       |                     | 27A                |                    |        |
| 09531   |        | XA124     | 59  |      | XA125  | 01        |     |      | 16B         | 9    |       | TCB030        | 01     | TD034A | 01       | 1    | TQ2    | E4               |       |                     | 31B                |                    |        |
| 11360   |        | XA124     | 60  |      | XA227  | 10        |     |      | 16B         | 9    |       | TD014A        | 01     | TD014A | 00       | 1    | TQ2    | E2               |       |                     | 28A                | DATA BUS XFER BI   |        |
| 09819   |        | XA124     | 61  |      | XA124  | 62        |     |      | 16B         | 9    |       | TCPDA0        | 04     | TD034A | 01       | 2    | TQ2    | E4               |       |                     | 32B                |                    |        |
| 09820   |        | XA124     | 62  |      | XA124  | 68        |     |      | 16B         | 9    |       | TCPDA0        | 05     | TD014A | 01       | 1    | TQ2    | E2               |       |                     | 29A                |                    |        |
| 11446   |        | XA124     | 63  |      | XA227  | 24        |     |      | 16B         | 9    |       | TD034A        | 01     | TD034A | 00       | 1    | TQ2    | E4               |       |                     | 33B                | DATA BUS XFER BI   |        |
| 09528   |        | XA124     | 64  |      |        |           |     |      |             |      |       | TCB010        | 02     | TD014A | 01       | 2    | TQ2    | E2               |       |                     | 30A                |                    |        |
| 09537   |        | XA124     | 65  |      | XA125  | 24        |     |      | 16B         | 9    |       | TCB060        | 01     | TD064A | 01       | 1    | TQ2    | F3               |       |                     | 34B                |                    |        |
| 11317   |        | XA124     | 66  |      | XA228  | 08        |     |      | 16B         | 9    |       | TD004A        | 01     | TD004A | 00       | 1    | TQ2    | E1               |       |                     | 31A                | DATA BUS XFER BI   |        |
| 01807   |        | XA124     | 67  |      |        |           |     |      |             |      |       | GND           | 01     |        |          |      | TQ2    |                  |       |                     | 40A                |                    |        |
| 09821   |        | XA124     | 68  |      | XA124  | 71        |     |      | 16B         | 9    |       | TCPDA0        | 06     | TD004A | 01       | 1    | TQ2    | E1               |       |                     | 32A                |                    |        |
| 11554   |        | XA124     | 69  |      | XA228  | 54        |     |      | 16B         | 9    |       | TD064A        | 01     | TD064A | 00       | 1    | TQ2    | F3               |       |                     | 35A                | DATA BUS XFER BI   |        |
| 09526   |        | XA124     | 70  |      |        |           |     |      |             |      |       | TCB000        | 02     | TD004A | 01       | 2    | TQ2    | E1               |       |                     | 33A                |                    |        |
| 09822   |        | XA124     | 71  |      | XA124  | 74        |     |      | 16B         | 9    |       | TCPDA0        | 07     | TD054A | 01       | 1    | TQ2    | F2               |       |                     | 36A                |                    |        |
| 11518   |        | XA124     | 72  |      | XA227  | 38        |     |      | 16B         | 9    |       | TD054A        | 01     | TD054A | 00       | 1    | TQ2    | F2               |       |                     | 34A                | DATA BUS XFER BI   |        |
| 09535   |        | XA124     | 73  |      | XA125  | 10        |     |      | 16B         | 9    |       | TCB050        | 01     | TD054A | 01       | 2    | TQ2    | F2               |       |                     | 36B                |                    |        |
| 09823   |        | XA124     | 74  |      | XA124  | 78        |     |      | 16B         | 9    |       | TCPDA0        | 08     | TD064A | 01       | 2    | TQ2    | F3               |       |                     | 35B                |                    |        |
| 11482   |        | XA124     | 75  |      | XA228  | 40        |     |      | 16B         | 9    |       | TD044A        | 01     | TD044A | 00       | 1    | TQ2    | F1               |       |                     | 37B                | DATA BUS XFER BI   |        |
| 09539   |        | XA124     | 76  |      | XA125  | 25        |     |      | 16B         | 9    |       | TCB070        | 01     | TD074A | 01       | 1    | TQ2    | F4               |       |                     | 37A                |                    |        |
| 09534   |        | XA124     | 77  |      |        |           |     |      |             |      |       | TCB040        | 02     | TD044A | 01       | 1    | TQ2    | F1               |       |                     | 38B                |                    |        |
| 09824   |        | XA124     | 78  |      | XA124  | 79        |     |      | 16B         | 9    |       | TCPDA0        | 09     | TD074A | 01       | 2    | TQ2    | F4               |       |                     | 38A                |                    |        |
| 09825   |        | XA124     | 79  |      | XA225  | 40        |     |      | 16B         | 9    |       | TCPDA0        | 10     | TD044A | 01       | 2    | TQ2    | F1               |       |                     | 39B                |                    |        |
| 11590   |        | XA124     | 80  |      | XA227  | 52        |     |      | 16B         | 9    |       | TD074A        | 01     | TD074A | 00       | 1    | TQ2    | F4               |       |                     | 39A                | DATA BUS XFER BI   |        |
| 09532   |        | XA125     | 01  |      |        |           |     |      |             |      |       | TCB030        | 02     | TCB030 | 00       | 1    | THI    | A4               |       |                     | 02B                | BIT 03 CPU BUS R   |        |
| 01808   |        | XA125     | 02  |      |        |           |     |      |             |      |       | GND           | 01     |        |          |      | THI    |                  |       |                     | 01A                |                    |        |
| CONNECTOR XA125 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |               |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA125  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 44

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | ENCL | MULTI GROUP | CODE | COLOR |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 21398   |        | XA125     | 02  |        |           |     |      |             |      |       | JDB01G  | 02     |          |      |        |                  |       |                     | 01A                |                    | C07    |
| 21400   |        | XA125     | 02  |        |           |     |      |             |      |       | JDB02G  | 02     |          |      |        |                  |       |                     | 01A                |                    | C07    |
| 09530   |        | XA125     | 03  |        |           |     |      |             |      |       | TCB020  | 02     | TCB020   | 00   | 1      | THI              | A3    |                     | 03A                | BIT 02 CPU BUS R   |        |
| 03543   |        | XA125     | 04  |        | XA127     | 57  |      |             | 16B  | 9     | JDB02B4 | 07     | TCB020   | 01   | 1      | THI              | A3    |                     | 02A                | CPU BUSS BIT 2     | C07    |
| 03554   |        | XA125     | 05  |        | XA301     | 07  |      | BV          | 1EB  | 9     | JDB03B4 | 06     | TCB030   | 01   | 1      | THI              | A4    |                     | 03B                | CPU BUSS BIT 3     | C07    |
| 03537   |        | XA125     | 06  |        | XA127     | 60  |      |             | 16B  | 9     | JDB01B4 | 07     | TCB010   | 01   | 1      | THI              | A2    |                     | 05A                | CPU BUSS BIT 1     | C07    |
| 09533   |        | XA125     | 07  |        | XA124     | 77  |      |             | 16B  | 9     | TCB040  | 01     | TCB040   | 00   | 1      | THI              | A5    |                     | 04B                | BIT 04 CPU BUS R   |        |
| 09527   |        | XA125     | 08  |        | XA124     | 64  |      |             | 16B  | 9     | TCB010  | 01     | TCB010   | 00   | 1      | THI              | A2    |                     | 04A                | BIT 01 CPU BUS R   |        |
| 03560   |        | XA125     | 09  |        | XA301     | 09  |      | BW          | 1EB  | 9     | JDB04B4 | 06     | TCB040   | 01   | 1      | THI              | A5    |                     | 05B                | CPU BUSS BIT 4     | C07    |
| 09536   |        | XA125     | 10  |        |           |     |      |             |      |       | TCB050  | 02     | TCB050   | 00   | 1      | THI              | A6    |                     | 06B                | BIT 05 CPU BUS R   |        |
| 03531   |        | XA125     | 11  |        | XA127     | 66  |      |             | 16B  | 9     | JDB00B4 | 07     | TCB000   | 01   | 1      | THI              | A1    |                     | 07A                | CPU BUSS BIT 0     | C07    |
| 00320   |        | XA125     | 12  |        |           |     |      |             |      |       | +5V     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 09525   |        | XA125     | 13  |        | XA124     | 70  |      |             | 16B  | 9     | TCB000  | 01     | TCB000   | 00   | 1      | THI              | A1    |                     | 06A                | BIT 00 CPU BUS R   |        |
| 09543   |        | XA125     | 14  |        | XA123     | 04  |      |             | 16B  | 9     | TCB090  | 01     | TCB090   | 00   | 1      | THI              | B4    |                     | 08B                | BIT 09 CPU BUS R   |        |
| 03562   |        | XA125     | 15  |        | XA127     | 72  |      |             | 16B  | 9     | JDB05B4 | 02     | TCB050   | 01   | 1      | THI              | A6    |                     | 07B                | CPU BUSS BIT 5     |        |
| 01809   |        | XA125     | 16  |        |           |     |      |             |      |       | GND     | 01     |          |      |        |                  |       |                     | 20B                |                    |        |
| 21396   |        | XA125     | 16  |        |           |     |      |             |      |       | JDB00G  | 02     |          |      |        |                  |       |                     | 20B                |                    | C07    |
| 21403   |        | XA125     | 16  |        | XA301     | 08  |      | BW          | 1EB  | 0     | JDB04G  | 01     |          |      |        |                  |       |                     | 20B                |                    | C07    |
| 21405   |        | XA125     | 16  |        |           |     |      |             |      |       | JDB05G  | 02     |          |      |        |                  |       |                     | 20B                |                    | C07    |
| 03586   |        | XA125     | 17  |        | XA301     | 19  |      | CX          | 1EB  | 9     | JDB09B4 | 02     | TCB090   | 01   | 1      | THI              | B4    |                     | 09B                | CPU BUSS BIT 9     | C07    |
| 09542   |        | XA125     | 18  |        |           |     |      |             |      |       | TCB080  | 02     | TCB080   | 00   | 1      | THI              | B3    |                     | 09A                | BIT 08 CPU BUS R   |        |
| 09546   |        | XA125     | 19  |        |           |     |      |             |      |       | TCB100  | 02     | TCB100   | 00   | 1      | THI              | B5    |                     | 10B                | BIT 10 CPU BUS R   |        |
| 03580   |        | XA125     | 20  |        | XA301     | 17  |      | CW          | 1EB  | 9     | JDB08B4 | 02     | TCB080   | 01   | 1      | THI              | B3    |                     | 10A                | CPU BUSS BIT 8     | C07    |
| 03595   |        | XA125     | 21  |        | XA126     | 09  |      |             | 16B  | 9     | JDB10B4 | 05     | TCB100   | 01   | 1      | THI              | B5    |                     | 11B                | CPU BUSS BIT 10    |        |
| 03571   |        | XA125     | 22  |        | XA301     | 13  |      | BY          | 1EB  | 9     | JDB06B4 | 05     | TCB060   | 01   | 1      | THI              | B1    |                     | 14A                | CPU BUSS BIT 6     | C07    |
| 03578   |        | XA125     | 23  |        | XA301     | 15  |      | BZ          | 1EB  | 9     | JDB07B4 | 06     | TCB070   | 01   | 1      | THI              | B2    |                     | 12A                | CPU BUSS BIT 7     | C07    |
| 09538   |        | XA125     | 24  |        |           |     |      |             |      |       | TCB060  | 02     | TCB060   | 00   | 1      | THI              | B1    |                     | 13A                | BIT 06 CPU BUS R   |        |
| 09540   |        | XA125     | 25  |        |           |     |      |             |      |       | TCB070  | 02     | TCB070   | 00   | 1      | THI              | B2    |                     | 11A                | BIT 07 CPU BUS R   |        |
| 09547   |        | XA125     | 26  |        | XA123     | 11  |      |             | 16B  | 9     | TCB110  | 01     | TCB110   | 00   | 1      | THI              | B6    |                     | 12B                | BIT 11 CPU BUS R   |        |
| 03601   |        | XA125     | 27  |        | XA126     | 15  |      |             | 16B  | 9     | JDB11B4 | 05     | TCB110   | 01   | 1      | THI              | B6    |                     | 13B                | CPU BUSS BIT 11    |        |
| 00321   |        | XA125     | 28  |        |           |     |      |             |      |       | +5V     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 03622   |        | XA125     | 29  |        | XA120     | 63  |      | DT          | 1EB  | 9     | JDB15B4 | 02     | TCB150   | 01   | 1      | THI              | C4    |                     | 15B                | CPU BUSS BIT 15    | C07    |
| 09555   |        | XA125     | 30  |        | XA123     | 25  |      |             | 16B  | 9     | TCB150  | 01     | TCB150   | 00   | 1      | THI              | C4    |                     | 14B                | BIT 15 CPU BUS R   |        |
| 09558   |        | XA125     | 31  |        |           |     |      |             |      |       | TCB160  | 02     | TCB160   | 00   | 1      | THI              | C5    |                     | 16B                | BIT 16 CPU BUS R   |        |
| 01810   |        | XA125     | 32  |        |           |     |      |             |      |       | GND     | 01     |          |      |        |                  |       |                     | 21B                |                    |        |
| 21418   |        | XA125     | 32  |        |           |     |      |             |      |       | JDB11G  | 02     |          |      |        |                  |       |                     | 21B                |                    | C07    |
| 21420   |        | XA125     | 32  |        |           |     |      |             |      |       | JDB12G  | 02     |          |      |        |                  |       |                     | 21B                |                    | C07    |
| 03628   |        | XA125     | 33  |        | XA120     | 61  |      | DU          | 1EB  | 9     | JDB16B4 | 02     | TCB160   | 01   | 1      | THI              | C5    |                     | 17B                | CPU BUSS BIT 16    | C07    |
| 09554   |        | XA125     | 34  |        |           |     |      |             |      |       | TCB140  | 02     | TCB140   | 00   | 1      | THI              | C3    |                     | 15A                | BIT 14 CPU BUS R   |        |
| 03610   |        | XA125     | 35  |        | XA120     | 66  |      | DR          | 1EB  | 9     | JDB13B4 | 02     | TCB130   | 01   | 1      | THI              | C2    |                     | 18A                | CPU BUSS BIT 13    | C07    |
| 03616   |        | XA125     | 36  |        | XA120     | 65  |      | DS          | 1EB  | 9     | JDB14B4 | 02     | TCB140   | 01   | 1      | THI              | C3    |                     | 16A                | CPU BUSS BIT 14    | E04    |
| 09551   |        | XA125     | 37  |        | XA123     | 18  |      |             | 16B  | 9     | TCB130  | 01     | TCB130   | 00   | 1      | THI              | C2    |                     | 17A                | BIT 13 CPU BUS R   |        |
| 03607   |        | XA125     | 38  |        | XA126     | 22  |      |             | 16B  | 9     | JDB12B4 | 05     | TCB120   | 01   | 1      | THI              | C1    |                     | 20A                | CPU BUSS BIT 12    |        |
| 03634   |        | XA125     | 39  |        | XA120     | 78  |      | DV          | 1EB  | 9     | JDB17B4 | 02     | TCB170   | 01   | 1      | THI              | C6    |                     | 19B                | CPU BUSS BIT 17    | C07    |
| 09550   |        | XA125     | 40  |        |           |     |      |             |      |       | TCB120  | 02     | TCB120   | 00   | 1      | THI              | C1    |                     | 19A                | BIT 12 CPU BUS R   |        |
| 03658   |        | XA125     | 41  |        | XA120     | 71  |      | DZ          | 1EB  | 9     | JDB21B4 | 02     | TCB210   | 01   | 1      | THI              | D4    |                     | 23B                | CPU BUSS BIT 21    | E04    |
| 09559   |        | XA125     | 42  |        | XA123     | 36  |      |             | 16B  | 9     | TCB170  | 01     | TCB170   | 00   | 1      | THI              | C6    |                     | 18B                | BIT 17 CPU BUS R   |        |
| 09570   |        | XA125     | 43  |        |           |     |      |             |      |       | TCB220  | 02     | TCB220   | 00   | 1      | THI              | D5    |                     | 24B                | BIT 22 CPU BUS R   |        |
| 01811   |        | XA125     | 44  |        |           |     |      |             |      |       | GND     | 01     |          |      |        |                  |       |                     | 27A                |                    |        |
| 21429   |        | XA125     | 44  |        | XA120     | 67  |      | DV          | 1EB  | 0     | JDB17G  | 01     |          |      |        |                  |       |                     | 27A                |                    | C07    |
| CONNECTOR XA125 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |         |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA125  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 45

| RECORD NUMBER | FROM   |              |     | TO            |           |      | WIRE |             |      |       | SFC INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|--------------|-----|---------------|-----------|------|------|-------------|------|-------|---------------|---------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR    | PIN | PREFIX        | CONNECTOR | PIN  | SIZE | MULTI GROUP | CODE | COLOR |               |         |        |          |      |      |                  |       |                     |                    |                    |        |
| 21433         |        | XA125        | 44  |               | XA121     | 67   |      | DX          | 1EB  | 0     |               | JDB19G  | 01     |          |      | THI  |                  |       |                     | 27A                |                    | C07    |
| 03664         |        | XA125        | 45  |               | XA204     | 51   |      | HD          | 1EB  | 9     |               | JDB22B4 | 02     | TCB220   | 01   | 1    | THI              | D5    |                     | 25B                | CPU BUSS BIT 22    | C07    |
| 09567         |        | XA125        | 46  |               | XA123     | 50   |      |             | 16B  | 9     |               | TCB210  | 01     | TCB210   | 00   | 1    | THI              | D4    |                     | 22B                | BIT 21 CPU BUS R   |        |
| 03646         |        | XA125        | 47  |               | XA120     | 75   |      | DX          | 1EB  | 9     |               | JDB19B4 | 02     | TCB190   | 01   | 1    | THI              | D2    |                     | 24A                | CPU BUSS BIT 19    | C07    |
| 09566         |        | XA125        | 48  |               |           |      |      |             |      |       |               | TCB200  | 02     | TCB200   | 00   | 1    | THI              | D3    |                     | 21A                | BIT 20 CPU BUS R   |        |
| 09563         |        | XA125        | 49  |               | XA123     | 35   |      |             | 16B  | 9     |               | TCB190  | 01     | TCB190   | 00   | 1    | THI              | D2    |                     | 23A                | BIT 19 CPU BUS R   |        |
| 03652         |        | XA125        | 50  |               | XA120     | 73   |      | DY          | 1EB  | 9     |               | JDB20B4 | 02     | TCB200   | 01   | 1    | THI              | D3    |                     | 22A                | CPU BUSS BIT 20    | C07    |
| 03672         |        | XA125        | 51  |               | XA126     | 51   |      |             | 16B  | 9     |               | JDB23B4 | 04     | TCB230   | 01   | 1    | THI              | D6    |                     | 27B                | CPU BUSS BIT 23    |        |
| 03640         |        | XA125        | 52  |               | XA120     | 76   |      | DW          | 1EB  | 9     |               | JDB18B4 | 02     | TCB180   | 01   | 1    | THI              | D1    |                     | 26A                | CPU BUSS BIT 18    | C07    |
| 09571         |        | XA125        | 53  |               | XA123     | 49   |      |             | 16B  | 9     |               | TCB230  | 01     | TCB230   | 00   | 1    | THI              | D6    |                     | 26B                | BIT 23 CPU BUS R   |        |
| 09562         |        | XA125        | 54  |               |           |      |      |             |      |       |               | TCB180  | 02     | TCB180   | 00   | 1    | THI              | D1    |                     | 25A                | BIT 18 CPU BUS R   |        |
| 03695         |        | XA125        | 55  |               | XA125     | 59   |      |             | 16B  | 9     |               | SPI009  | 095    | TCB270   | 01   | 1    | THI              | E4    |                     | 29B                | CPU BUSS BIT 27    | D01    |
| 09582         |        | XA125        | 56  |               |           |      |      |             |      |       |               | SPO     | 02     |          | 00   | 1    | THI              | E4    |                     | 28B                | BIT 27 CPU BUS R   | D01    |
| 03937         |        | XA125        | 57  |               | XA117     | 72   |      |             | 16B  | 9     |               | KGNDCA  | 10     | KGNDCA   | 00   | 1    | THI              | E5    |                     | 30B                |                    |        |
| 01812         |        | XA125        | 58  |               |           |      |      |             |      |       |               | GND     | 01     |          |      |      | THI              |       |                     | 40A                |                    |        |
| 21431         |        | XA125        | 58  |               | XA119     | 67   |      | DW          | 1EB  | 0     |               | JDB18G  | 01     |          |      |      | THI              |       |                     | 40A                |                    | C07    |
| 21449         |        | XA125        | 58  |               | XA204     | 67   |      | HI          | 1EB  | 0     |               | JDB27G  | 01     |          |      |      | THI              |       |                     | 40A                |                    | E04    |
| 05075         |        | XA125        | 59  |               | XA125     | 65   |      |             | 16B  | 9     |               | SPI009  | 10     | KGNDCA   | 01   | 1    | THI              | E5    |                     | 31B                |                    |        |
| 09579         |        | XA125        | 60  |               | XA440     | 56   |      |             | 16B  | 9     |               | TCB260  | 02     | TCB260   | 00   | 1    | THI              | E3    |                     | 28A                | BIT 26 CPU BUS R   |        |
| 03684         |        | XA125        | 61  |               | XA126     | 60   |      |             | 16B  | 9     |               | JDB25B4 | 04     | TCB250   | 01   | 1    | THI              | E2    |                     | 31A                | CPU BUSS BIT 25    |        |
| 03689         |        | XA125        | 62  |               | XA204     | 61   |      | HH          | 1EB  | 9     |               | JDB26B4 | 03     | TCB260   | 01   | 1    | THI              | E3    |                     | 29A                | CPU BUSS BIT 26    | C07    |
| 09576         |        | XA125        | 63  |               | XA123     | 64   |      |             | 16B  | 9     |               | TCB250  | 02     | TCB250   | 00   | 1    | THI              | E2    |                     | 30A                | BIT 25 CPU BUS R   |        |
| 03678         |        | XA125        | 64  |               | XA126     | 66   |      |             | 16B  | 9     |               | JDB24B4 | 04     | TCB240   | 01   | 1    | THI              | E1    |                     | 33A                | CPU BUSS BIT 24    |        |
| 05076         |        | XA125        | 65  |               | XA122     | 71   |      |             | 16B  | 9     |               | SPI009  | 11     |          | 01   | 1    | THI              | E6    |                     | 33B                |                    |        |
| 09574         |        | XA125        | 66  |               |           |      |      |             |      |       |               | TCB240  | 02     | TCB240   | 00   | 1    | THI              | E1    |                     | 32A                | BIT 24 CPU BUS R   |        |
| 01813         |        | XA125        | 67  |               |           |      |      |             |      |       |               | GND     | 01     |          |      |      | THI              |       |                     |                    |                    |        |
| 21447         |        | XA125        | 67  |               | XA205     | 58   |      | HH          | 1EB  | 0     |               | JDB26G  | 01     |          |      |      | THI              |       |                     |                    |                    | C07    |
| 07846         |        | XA125        | 68  |               |           |      |      |             |      |       |               | SPO     | 01     |          | 00   | 1    | THI              | E6    |                     | 32B                |                    |        |
| 11146         |        | XA125        | 69  |               | XA124     | 52   |      |             | 16B  | 9     |               | TDRS10  | 05     | TDRSCA   | 01   | 1    | THI              | F3    |                     | 35B                |                    |        |
| 11110         |        | XA125        | 70  |               | XA229     | 04   |      |             | 16B  | 9     |               | TDRSCA  | 01     | TDRSCA   | 00   | 1    | THI              | F3    |                     | 34B                | TD RESET UNLOAD    |        |
| 11102         |        | XA125        | 71  |               | XA229     | 22   |      |             | 16B  | 9     |               | TDRSBA  | 01     | TDRSBA   | 00   | 1    | THI              | F2    |                     | 36B                | TD RESET           |        |
| 11125         |        | XA125        | 72  |               |           |      |      |             |      |       |               | TDRSDA  | 08     | TDRSDA   | 00   | 1    | THI              | F4    |                     | 34A                | TD RESET UNLOAD    |        |
| 11145         |        | XA125        | 73  |               | XA125     | 69   |      |             | 16B  | 9     |               | TDRS10  | 04     | TDRSBA   | 01   | 1    | THI              | F2    |                     | 37B                |                    |        |
| 11142         |        | XA125        | 74  |               | XA125     | 76   |      |             | 16B  | 9     |               | TDRS10  | 01     | TDRSDA   | 01   | 1    | THI              | F4    |                     | 35A                |                    |        |
| 11144         |        | XA125        | 75  |               | XA125     | 73   |      |             | 16B  | 9     |               | TDRS10  | 03     | TDRSFA   | 01   | 1    | THI              | F6    |                     | 39A                |                    |        |
| 11143         |        | XA125        | 76  |               | XA125     | 75   |      |             | 16B  | 9     |               | TDRS10  | 02     | TDRSEA   | 01   | 1    | THI              | F5    |                     | 37A                |                    |        |
| 11139         |        | XA125        | 77  |               |           |      |      |             |      |       |               | TDRSFA  | 06     | TDRSFA   | 00   | 1    | THI              | F6    |                     | 38A                | TD RESET UNLOAD    |        |
| 11133         |        | XA125        | 78  |               |           |      |      |             |      |       |               | TDRSEA  | 08     | TDRSEA   | 00   | 1    | THI              | F5    |                     | 36A                | TD RESET UNLOAD    |        |
| 10723         |        | XA125        | 79  |               |           |      |      |             |      |       |               | TDIG6A  | 02     | TDIG60   | 01   | 1    | THI              | F1    |                     | 39B                |                    |        |
| 10725         |        | XA125        | 80  |               |           |      |      |             |      |       |               | TDIG60  | 02     | TDIG60   | 00   | 1    | THI              | F1    |                     | 38B                | MEM CYCLE OKAY     |        |
| 03585         |        | XA126        | 01  |               | XA125     | 17   |      |             | 16B  | 9     | P             | TD09CD  | 01     | JDB09B4  | 01   | 1    | TLD              | A2    |                     | 02B                | DATA TO CPU        |        |
| 11635         |        | XA126        | 01  |               |           |      |      |             |      |       | J             | TD09CD  | 01     | TD09CD   | 00   | 1    | TLD              | A2    |                     | 02B                | JDB09B4 BUSS       |        |
| 01814         |        | XA126        | 02  |               |           |      |      |             |      |       |               | GND     | 01     |          |      |      | TLD              |       |                     | 01A                |                    |        |
| 21401         |        | XA126        | 02  |               | XA301     | 08   |      | BV          | 1EB  | 0     |               | JDB03G  | 01     |          |      |      | TLD              |       |                     | 01A                |                    | C07    |
| 16550         |        | XA126        | 03  |               | XA126     | 05   |      |             | 16B  | 9     |               | TTDM10  | 02     | TD10CD   | 01   | 1    | TLD              | A3    |                     | 02A                |                    |        |
| 11628         |        | XA126        | 04  |               | XA229     | 55   |      |             | 16B  | 9     |               | TD09BQ  | 01     | TD09CD   | 01   | 1    | TLD              | A2    |                     | 04A                |                    |        |
| 16551         |        | XA126        | 05  |               | XA126     | 08   |      |             | 16B  | 9     |               | TTDM10  | 03     | TD09CD   | 01   | 2    | TLD              | A2    |                     | 03B                |                    |        |
| 03579         |        | XA126        | 06  |               | XA125     | 20   |      |             | 16B  | 9     | P             | TD08CD  | 01     | JDB08B4  | 01   | 1    | TLD              | A1    |                     | 05A                | DATA TO CPU        |        |
| CONNECTOR     | XA126  | CONTINUED ON |     | THE NEXT PAGE |           | **** |      |             |      |       |               |         |        |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA126  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 46

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SPEC. INST. MARK | SIGNAL | SEQ NO | EQUATION | TERM    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|------------------|--------|--------|----------|---------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | NO.  | MULTI GROUP | CODE | COLOR |                  |        |        |          |         |        |                  |       |                     |                    |                    |        |
| 11604   |        | XA126     | 06  |        |           |     |      |             |      |       |                  | J      | TD08CD | 01       | TD08CD  | 00     | 1                | TLD   | A1                  | 05A                | JOB08B4 BUSS       |        |
| 11659   |        | XA126     | 07  |        | XA231     | 65  |      |             | 16B  | 9     |                  |        | TD10BQ | 01       | TD10CD  | 01     | 2                | TLD   | A3                  | 03A                |                    |        |
| 16552   |        | XA126     | 08  |        | XA126     | 18  |      |             | 16B  | 9     |                  |        | TTDM10 | 04       | TD08CD  | 01     | 1                | TLD   | A1                  | 06A                |                    |        |
| 03596   |        | XA126     | 09  |        |           |     |      |             |      |       |                  | P      | TD10CD | 06       | JDB10B4 | 01     | 1                | TLD   | A3                  | C4B                | DATA TO CPU        |        |
| 11666   |        | XA126     | 09  |        |           |     |      |             |      |       |                  | J      | TD10CD | 01       | TD10CD  | 00     | 1                | TLD   | A3                  | 04B                | JOB10B4 BUSS       |        |
| 11597   |        | XA126     | 10  |        | XA229     | 61  |      |             | 16B  | 9     |                  |        | TD08BQ | 01       | TD08CD  | 01     | 2                | TLD   | A1                  | 07A                |                    |        |
| 16549   |        | XA126     | 11  |        | XA126     | 03  |      |             | 16B  | 9     |                  |        | TTDM10 | 01       | TD11CD  | 01     | 1                | TLD   | A4                  | 05B                |                    |        |
| 00322   |        | XA126     | 12  |        |           |     |      |             |      |       |                  |        | +5V    | 01       |         |        |                  | TLD   |                     |                    |                    |        |
| 11692   |        | XA126     | 13  |        | XA230     | 61  |      |             | 16B  | 9     |                  |        | TD11BQ | 01       | TD11CD  | 01     | 2                | TLD   | A4                  | 06B                |                    |        |
| 03609   |        | XA126     | 14  |        | XA125     | 35  |      |             | 16B  | 9     |                  | P      | TD13CD | 01       | JDB13B4 | 01     | 1                | TLD   | B2                  | 09A                | DATA TO CPU        |        |
| 11765   |        | XA126     | 14  |        |           |     |      |             |      |       |                  | J      | TD13CD | 01       | TD13CD  | 00     | 1                | TLD   | B2                  | 09A                | JDB13B4 BUSS       |        |
| 03602   |        | XA126     | 15  |        |           |     |      |             |      |       |                  | P      | TD11CD | 06       | JDB11B4 | 01     | 1                | TLD   | A4                  | 07B                | DATA TO CPU        |        |
| 11699   |        | XA126     | 15  |        |           |     |      |             |      |       |                  | J      | TD11CD | 01       | TD11CD  | 00     | 1                | TLD   | A4                  | 07B                | JOB11B4 BUSS       |        |
| 01815   |        | XA126     | 16  |        |           |     |      |             |      |       |                  |        | GND    | 01       |         |        |                  | TLD   |                     | 01B                |                    |        |
| 21407   |        | XA126     | 16  |        | XA301     | 14  |      | BY          | 1EB  | 0     |                  |        | JDB06G | 01       |         |        |                  | TLD   |                     | 01B                |                    | C07    |
| 21409   |        | XA126     | 16  |        | XA301     | 16  |      | BZ          | 1EB  | 0     |                  |        | JDB07G | 01       |         |        |                  | TLD   |                     | 01B                |                    | C07    |
| 11791   |        | XA126     | 17  |        | XA225     | 18  |      |             | 16B  | 9     |                  |        | TD14BQ | 01       | TD14CD  | 01     | 1                | TLD   | B3                  | 08B                |                    |        |
| 16553   |        | XA126     | 18  |        | XA126     | 24  |      |             | 16B  | 9     |                  |        | TTDM10 | 05       | TD13CD  | 01     | 1                | TLD   | B2                  | 10A                |                    |        |
| 16557   |        | XA126     | 19  |        | XA126     | 23  |      |             | 16B  | 9     |                  |        | TTDM20 | 01       | TD14CD  | 01     | 2                | TLD   | B3                  | 09B                |                    |        |
| 11764   |        | XA126     | 20  |        |           |     |      |             |      |       |                  |        | TD13BQ | 07       | TD13CD  | 01     | 2                | TLD   | B2                  | 11A                |                    |        |
| 03615   |        | XA126     | 21  |        | XA125     | 36  |      |             | 16B  | 9     |                  | P      | TD14CD | 01       | JDB14B4 | 01     | 1                | TLD   | B3                  | 10B                | DATA TO CPU        |        |
| 11799   |        | XA126     | 21  |        |           |     |      |             |      |       |                  | J      | TD14CD | 01       | TD14CD  | 00     | 1                | TLD   | B3                  | 10B                | JDB14B4 BUSS       |        |
| 03608   |        | XA126     | 22  |        |           |     |      |             |      |       |                  | P      | TD12CD | 06       | JDB12B4 | 01     | 1                | TLD   | B1                  | 12A                | DATA TO CPU        |        |
| 11732   |        | XA126     | 22  |        |           |     |      |             |      |       |                  | J      | TD12CD | 01       | TD12CD  | 00     | 1                | TLD   | B1                  | 12A                | JDB12B4 BUSS       |        |
| 16558   |        | XA126     | 23  |        | XA126     | 29  |      |             | 16B  | 9     |                  |        | TTDM20 | 02       | TD15CD  | 01     | 1                | TLD   | B4                  | 11B                |                    |        |
| 16554   |        | XA126     | 24  |        | XA127     | 76  |      |             | 16B  | 9     |                  |        | TTDM10 | 06       | TD12CD  | 01     | 1                | TLD   | B1                  | 13A                |                    |        |
| 11824   |        | XA126     | 25  |        | XA224     | 23  |      |             | 16B  | 9     |                  |        | TD15BQ | 01       | TD15CD  | 01     | 2                | TLD   | B4                  | 12B                |                    |        |
| 11725   |        | XA126     | 26  |        | XA224     | 04  |      |             | 16B  | 9     |                  |        | TD12BQ | 01       | TD12CD  | 01     | 2                | TLD   | B1                  | 14A                |                    |        |
| 03621   |        | XA126     | 27  |        | XA125     | 29  |      |             | 16B  | 9     |                  | P      | TD15CD | 01       | JDB15B4 | 01     | 1                | TLD   | B4                  | 13B                | DATA TO CPU        |        |
| 11831   |        | XA126     | 27  |        |           |     |      |             |      |       |                  | J      | TD15CD | 01       | TD15CD  | 00     | 1                | TLD   | B4                  | 13B                | JDB15B4 BUSS       |        |
| 00323   |        | XA126     | 28  |        |           |     |      |             |      |       |                  |        | +5V    | 01       |         |        |                  | TLD   |                     |                    |                    |        |
| 16559   |        | XA126     | 29  |        | XA126     | 35  |      |             | 16B  | 9     |                  |        | TTDM20 | 03       | TD18CD  | 01     | 1                | TLD   | C3                  | 14B                |                    |        |
| 03633   |        | XA126     | 30  |        | XA125     | 39  |      |             | 16B  | 9     |                  | P      | TD17CD | 01       | JDB17B4 | 01     | 1                | TLD   | C2                  | 15A                | DATA TO CPU        |        |
| 11901   |        | XA126     | 30  |        |           |     |      |             |      |       |                  | J      | TD17CD | 01       | TD17CD  | 00     | 1                | TLD   | C2                  | 15A                | JDB17B4 BUSS       |        |
| 11932   |        | XA126     | 31  |        | XA230     | 20  |      |             | 16B  | 9     |                  |        | TD18BQ | 01       | TD18CD  | 01     | 2                | TLD   | C3                  | 15B                |                    |        |
| 01816   |        | XA126     | 32  |        |           |     |      |             |      |       |                  |        | GND    | 01       |         |        |                  | TLD   |                     | 21B                |                    |        |
| 21421   |        | XA126     | 32  |        | XA119     | 58  |      | DR          | 1EB  | 0     |                  |        | JDB13G | 01       |         |        |                  | TLD   |                     | 21B                |                    | C07    |
| 21423   |        | XA126     | 32  |        | XA119     | 67  |      | DS          | 1EB  | 0     |                  |        | JDB14G | 01       |         |        |                  | TLD   |                     | 21B                |                    | E04    |
| 03639   |        | XA126     | 33  |        | XA125     | 52  |      |             | 16B  | 9     |                  | P      | TD18CD | 01       | JDB18B4 | 01     | 1                | TLD   | C3                  | 16B                | DATA TO CPU        |        |
| 11938   |        | XA126     | 33  |        |           |     |      |             |      |       |                  | J      | TD18CD | 01       | TD18CD  | 00     | 1                | TLD   | C3                  | 16B                | JDB18B4 BUSS       |        |
| 11895   |        | XA126     | 34  |        | XA225     | 04  |      |             | 16B  | 9     |                  |        | TD17BQ | 02       | TD17CD  | 01     | 1                | TLD   | C2                  | 16A                |                    |        |
| 16560   |        | XA126     | 35  |        | XA126     | 36  |      |             | 16B  | 9     |                  |        | TTDM20 | 04       | TD19CD  | 01     | 1                | TLD   | C4                  | 17B                |                    |        |
| 16561   |        | XA126     | 36  |        | XA126     | 40  |      |             | 16B  | 9     |                  |        | TTDM20 | 05       | TD17CD  | 01     | 2                | TLD   | C2                  | 17A                |                    |        |
| 11972   |        | XA126     | 37  |        |           |     |      |             |      |       |                  |        | TD19BQ | 07       | TD19CD  | 01     | 2                | TLD   | C4                  | 18B                |                    |        |
| 03627   |        | XA126     | 38  |        | XA125     | 33  |      |             | 16B  | 9     |                  | P      | TD16CD | 01       | JDB16B4 | 01     | 1                | TLD   | C1                  | 18A                | DATA TO CPU        |        |
| 11865   |        | XA126     | 38  |        |           |     |      |             |      |       |                  | J      | TD16CD | 01       | TD16CD  | 00     | 1                | TLD   | C1                  | 18A                | JDB16B4 BUSS       |        |
| 03645   |        | XA126     | 39  |        | XA125     | 47  |      |             | 16B  | 9     |                  | P      | TD19CD | 01       | JDB19B4 | 01     | 1                | TLD   | C4                  | 19B                | DATA TO CPU        |        |
| 11973   |        | XA126     | 39  |        |           |     |      |             |      |       |                  | J      | TD19CD | 01       | TD19CD  | 00     | 1                | TLD   | C4                  | 19B                | JDB19B4 BUSS       |        |
| 16562   |        | XA126     | 40  |        | XA126     | 56  |      |             | 16B  | 9     |                  |        | TTDM20 | 06       | TD16CD  | 01     | 1                | TLD   | C1                  | 19A                |                    |        |
| 16572   |        | XA126     | 41  |        |           |     |      |             |      |       |                  |        | TTDM30 | 08       | TD22CD  | 01     | 1                | TLD   | D3                  | 22B                |                    |        |
| CONNECTOR (XA126) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |                  |        |        |          |         |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA126  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 47

| RECORD NUMBER | FROM   |           |     |      | TO     |           |     |      | WIRE       |      |       |       | SFC INST MISC | SIGNAL | SEQ NO  | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND JP | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|------|--------|-----------|-----|------|------------|------|-------|-------|---------------|--------|---------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | SH # | PREFIX | CONNECTOR | PIN | SH # | MULT GROUP | CODE | COLOR | IDENT |               |        |         |          |      |        |                  |       |                     |                    |                    |        |
| 11857         |        | XA126     | 42  |      | XA225  | 08        |     |      | 168        | 9    |       |       | TD16BQ        | 01     | TD16CD  | 01       | 2    | TLD    | C1               |       | 20A                 |                    |                    |        |
| 12069         |        | XA126     | 43  |      | XA225  | 78        |     |      | 168        | 9    |       |       | TD22BQ        | 01     | TD22CD  | 01       | 2    | TLD    | D3               |       | 23B                 |                    |                    |        |
| 01817         |        | XA126     | 44  |      |        |           |     |      |            |      |       |       | GND           | 01     |         |          |      | TLD    |                  |       | 27A                 |                    |                    |        |
| 21437         |        | XA126     | 44  |      | XA119  | 67        |     | DZ   | 1E8        | 0    |       |       | JOB21G        | 01     |         |          |      | TLD    |                  |       | 27A                 |                    | E04                |        |
| 21439         |        | XA126     | 44  |      | XA204  | 44        |     | HD   | 1E8        | 0    |       |       | JDB22G        | 01     |         |          |      | TLD    |                  |       | 27A                 |                    | C07                |        |
| 03663         |        | XA126     | 45  |      | XA125  | 45        |     |      | 168        | 9    |       | P     | TD22CD        | 01     | JDB22B4 | 01       | 1    | TLD    | D3               |       | 24B                 | DATA TO CPU        |                    |        |
| 12076         |        | XA126     | 45  |      |        |           |     |      |            |      |       | J     | TD22CD        | 01     | TD22CD  | 00       | 1    | TLD    | D3               |       | 24B                 | JDB22B4 BUSS       |                    |        |
| 03657         |        | XA126     | 46  |      | XA125  | 41        |     |      | 168        | 9    |       | P     | TD21CD        | 01     | JDB21B4 | 01       | 1    | TLD    | D2               |       | 21A                 | DATA TO CPU        |                    |        |
| 12040         |        | XA126     | 46  |      |        |           |     |      |            |      |       | J     | TD21CD        | 01     | TD21CD  | 00       | 1    | TLD    | D2               |       | 21A                 | JDB21B4 BUSS       |                    |        |
| 12105         |        | XA126     | 47  |      | XA225  | 76        |     |      | 168        | 9    |       |       | TD23BQ        | 01     | TD23CD  | 01       | 1    | TLD    | D4               |       | 25B                 |                    |                    |        |
| 12033         |        | XA126     | 48  |      | XA225  | 64        |     |      | 168        | 9    |       |       | TD21BQ        | 01     | TD21CD  | 01       | 1    | TLD    | D2               |       | 22A                 |                    |                    |        |
| 16570         |        | XA126     | 49  |      | XA126  | 50        |     |      | 168        | 9    |       |       | TTM30         | 06     | TD23CD  | 01       | 2    | TLD    | D4               |       | 26B                 |                    |                    |        |
| 16571         |        | XA126     | 50  |      | XA126  | 41        |     |      | 168        | 9    |       |       | TTM30         | 07     | TD21CD  | 01       | 2    | TLD    | D2               |       | 23A                 |                    |                    |        |
| 03673         |        | XA126     | 51  |      |        |           |     |      |            |      |       | P     | TD23CD        | 05     | JDB23B4 | 01       | 1    | TLD    | D4               |       | 27B                 | DATA TO CPU        | C07                |        |
| 12112         |        | XA126     | 51  |      |        |           |     |      |            |      |       | J     | TD23CD        | 01     | TD23CD  | 00       | 1    | TLD    | D4               |       | 27B                 | JDB23B4 BUSS       |                    |        |
| 03651         |        | XA126     | 52  |      | XA125  | 50        |     |      | 168        | 9    |       | P     | TD20CD        | 01     | JDB20B4 | 01       | 1    | TLD    | D1               |       | 24A                 | DATA TO CPU        |                    |        |
| 12005         |        | XA126     | 52  |      |        |           |     |      |            |      |       | J     | TD20CD        | 01     | TD20CD  | 00       | 1    | TLD    | D1               |       | 24A                 | JDB20B4 BUSS       |                    |        |
| 16569         |        | XA126     | 53  |      | XA126  | 49        |     |      | 168        | 9    |       |       | TTM30         | 05     | TD26CD  | 01       | 1    | TLD    | E3               |       | 28B                 |                    |                    |        |
| 11998         |        | XA126     | 54  |      | XA225  | 70        |     |      | 168        | 9    |       |       | TD20BQ        | 01     | TD20CD  | 01       | 1    | TLD    | D1               |       | 25A                 |                    |                    |        |
| 12214         |        | XA126     | 55  |      | XA219  | 19        |     |      | 168        | 9    |       |       | TD26BQ        | 01     | TD26CD  | 01       | 2    | TLD    | E3               |       | 29B                 |                    |                    |        |
| 16563         |        | XA126     | 56  |      | XA351  | 20        |     |      | 168        | 9    |       |       | TTM20         | 07     | TD20CD  | 01       | 2    | TLD    | D1               |       | 26A                 |                    |                    |        |
| 03688         |        | XA126     | 57  |      | XA125  | 62        |     |      | 168        | 9    |       | P     | TD26CD        | 02     | JDB26B4 | 01       | 1    | TLD    | E3               |       | 30B                 | DATA TO CPU        |                    |        |
| 12221         |        | XA126     | 57  |      |        |           |     |      |            |      |       | J     | TD26CD        | 01     | TD26CD  | 00       | 1    | TLD    | E3               |       | 30B                 | JDB26B4 BUSS       |                    |        |
| 01818         |        | XA126     | 58  |      |        |           |     |      |            |      |       |       | GND           | 01     |         |          |      | TLD    |                  |       | 40A                 |                    |                    |        |
| 21442         |        | XA126     | 58  |      |        |           |     |      |            |      |       |       | JDB23G        | 02     |         |          |      | TLD    |                  |       | 40A                 |                    | C07                |        |
| 21446         |        | XA126     | 58  |      |        |           |     |      |            |      |       |       | JDB25G        | 02     |         |          |      | TLD    |                  |       | 40A                 |                    | C07                |        |
| 16568         |        | XA126     | 59  |      | XA126  | 53        |     |      | 168        | 9    |       |       | TTM30         | 04     | TD27CD  | 01       | 1    | TLD    | E4               |       | 31B                 |                    |                    |        |
| 03685         |        | XA126     | 60  |      |        |           |     |      |            |      |       | P     | TD25CD        | 05     | JDB25B4 | 01       | 1    | TLD    | E2               |       | 28A                 | DATA TO CPU        | C07                |        |
| 12184         |        | XA126     | 60  |      |        |           |     |      |            |      |       | J     | TD25CD        | 01     | TD25CD  | 00       | 1    | TLD    | E2               |       | 28A                 | JDB25B4 BUSS       |                    |        |
| 12259         |        | XA126     | 61  |      |        |           |     |      |            |      |       |       | TD27BQ        | 07     | TD27CD  | 01       | 2    | TLD    | E4               |       | 32B                 |                    |                    |        |
| 12177         |        | XA126     | 62  |      | XA219  | 03        |     |      | 168        | 9    |       |       | TD25BQ        | 01     | TD25CD  | 01       | 1    | TLD    | E2               |       | 29A                 |                    |                    |        |
| 03694         |        | XA126     | 63  |      | XA204  | 62        |     | HI   | 1E8        | 9    |       | P     | TD27CD        | 02     | JDB27B4 | 01       | 1    | TLD    | E4               |       | 33B                 | DATA TO CPU        | E04                |        |
| 12260         |        | XA126     | 63  |      |        |           |     |      |            |      |       | J     | TD27CD        | 01     | TD27CD  | 00       | 1    | TLD    | E4               |       | 33B                 | JDB27B4 BUSS       |                    |        |
| 16567         |        | XA126     | 64  |      | XA126  | 59        |     |      | 168        | 9    |       |       | TTM30         | 03     | TD25CD  | 01       | 2    | TLD    | E2               |       | 30A                 |                    |                    |        |
| 16577         |        | XA126     | 65  |      |        |           |     |      |            |      |       |       | TTM40         | 05     | TD30CD  | 01       | 1    | TLD    | F3               |       | 34B                 |                    |                    |        |
| 03679         |        | XA126     | 66  |      |        |           |     |      |            |      |       | P     | TD24CD        | 05     | JDB24B4 | 01       | 1    | TLD    | E1               |       | 31A                 | DATA TO CPU        | C07                |        |
| 12147         |        | XA126     | 66  |      |        |           |     |      |            |      |       | J     | TD24CD        | 01     | TD24CD  | 00       | 1    | TLD    | E1               |       | 31A                 | JDB24B4 BUSS       |                    |        |
| 01819         |        | XA126     | 67  |      |        |           |     |      |            |      |       |       | GND           | 01     |         |          |      | TLD    |                  |       |                     |                    |                    |        |
| 21444         |        | XA126     | 67  |      |        |           |     |      |            |      |       |       | JDB24G        | 02     |         |          |      | TLD    |                  |       |                     |                    | C07                |        |
| 21455         |        | XA126     | 67  |      |        |           |     |      |            |      |       |       | JDB30G        | 02     |         |          |      | TLD    |                  |       |                     |                    | C07                |        |
| 12140         |        | XA126     | 68  |      | XA219  | 10        |     |      | 168        | 9    |       |       | TD24BQ        | 01     | TD24CD  | 01       | 1    | TLD    | E1               |       | 32A                 |                    |                    |        |
| 03715         |        | XA126     | 69  |      |        |           |     |      |            |      |       | P     | TD30CD        | 05     | JDB30B4 | 01       | 1    | TLD    | F3               |       | 35A                 | DATA TO CPU        |                    |        |
| 12367         |        | XA126     | 69  |      |        |           |     |      |            |      |       | J     | TD30CD        | 01     | TD30CD  | 00       | 1    | TLD    | F3               |       | 35A                 | JDB30B4 BUSS       |                    |        |
| 16566         |        | XA126     | 70  |      | XA126  | 64        |     |      | 168        | 9    |       |       | TTM30         | 02     | TD24CD  | 01       | 2    | TLD    | E1               |       | 33A                 |                    |                    |        |
| 12329         |        | XA126     | 71  |      |        |           |     |      |            |      |       |       | TD29BQ        | 07     | TD29CD  | 01       | 1    | TLD    | F2               |       | 36A                 |                    |                    |        |
| 03709         |        | XA126     | 72  |      |        |           |     |      |            |      |       | P     | TD29CD        | 05     | JDB29B4 | 01       | 1    | TLD    | F2               |       | 34A                 | DATA TO CPU        | C07                |        |
| 12330         |        | XA126     | 72  |      |        |           |     |      |            |      |       | J     | TD29CD        | 01     | TD29CD  | 00       | 1    | TLD    | F2               |       | 34A                 | JDB29B4 BUSS       |                    |        |
| 16576         |        | XA126     | 73  |      | XA126  | 65        |     |      | 168        | 9    |       |       | TTM40         | 04     | TD29CD  | 01       | 2    | TLD    | F2               |       | 36B                 |                    |                    |        |
| 12360         |        | XA126     | 74  |      | XA219  | 43        |     |      | 168        | 9    |       |       | TD30BQ        | 01     | TD30CD  | 01       | 2    | TLD    | F3               |       | 35B                 |                    |                    |        |
| 03703         |        | XA126     | 75  |      |        |           |     |      |            |      |       | P     | TD28CD        | 05     | JDB28B4 | 01       | 1    | TLD    | F1               |       | 37B                 | DATA TO CPU        | C07                |        |

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DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA126  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 48

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO  | EQUATION | TERM    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|---------|----------|---------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |         |          |         |        |                  |       |                     |                    |                    |        |
| 12295   | XA126  | 75        |     |        |           |     |      |             |      |       | J      | TD28CD  | 01       | TD28CD  | 00     | 1                | TLD   | F1                  | 37B                | JDB28B4 BUSS       |        |
| 16575   | XA126  | 76        |     | XA126  | 73        |     |      | 16B         | 9    |       | J      | TTDM40  | 03       | JDB31D  | 01     | 1                | TLD   | F4                  | 37A                |                    |        |
| 12288   | XA126  | 77        |     | XA219  | 31        |     |      | 16B         | 9    |       | J      | TD28BQ  | 01       | TD28CD  | 01     | 1                | TLD   | F1                  | 38B                |                    |        |
| 12403   | XA126  | 78        |     |        |           |     |      |             |      |       | J      | TD31BQ  | 07       | JDB31D  | 01     | 2                | TLD   | F4                  | 38A                |                    |        |
| 16574   | XA126  | 79        |     | XA126  | 76        |     |      | 16B         | 9    |       | J      | TTDM40  | 02       | TD28CD  | 01     | 2                | TLD   | F1                  | 39B                |                    |        |
| 03718   | XA126  | 80        |     | XA124  | 43        |     |      | 16B         | 9    |       | P      | JDB31D  | 03       | JDB31B4 | 01     | 1                | TLD   | F4                  | 39A                |                    |        |
| 03720   | XA126  | 80        |     |        |           |     |      |             |      |       | J      | JDB31D  | 01       | JDB31D  | 00     | 1                | TLD   | F4                  | 39A                | JDB31B4 BUSS       |        |
| 03751   | XA127  | 01        |     | XA204  | 41        |     |      | 16B         | 9    |       | P      | JDIG8D  | 02       | JDIG8B4 | 02     | 1                | TLD   | A2                  | 02B                | BOOTSTRAP DIAGNOS  |        |
| 03753   | XA127  | 01        |     |        |           |     |      |             |      |       | J      | JDIG8D  | 01       | JDIG8D  | 00     | 1                | TLD   | A2                  | 02B                | JDIG8B4 BUSS       |        |
| 01820   | XA127  | 02        |     |        |           |     |      |             |      |       |        | GND     | 01       |         |        |                  | TLD   |                     | 01A                |                    |        |
| 05066   | XA127  | 03        |     | XA127  | 05        |     |      | 16B         | 9    |       |        | SPI009  | 01       |         | 01     | 1                | TLD   | A3                  | 02A                |                    |        |
| 09267   | XA127  | 04        |     | XA427  | 08        |     |      | 16B         | 9    |       |        | TBT120  | 02       | JDIG8D  | 01     | 1                | TLD   | A2                  | 04A                |                    |        |
| 05067   | XA127  | 05        |     | XA127  | 11        |     |      | 16B         | 9    |       |        | SPI009  | 02       | JDIG8D  | 01     | 2                | TLD   | A2                  | 03B                |                    |        |
| 20363   | XA127  | 06        |     |        |           |     |      |             |      |       | M      | SP0001  | 01       |         | 00     | 1                | TLD   | A1                  | 05A                |                    |        |
| 05127   | XA127  | 07        |     | XA127  | 08        |     |      | 16B         | 9    |       |        | SPI010  | 03       |         | 01     | 2                | TLD   | A3                  | 03A                |                    |        |
| 05128   | XA127  | 08        |     | XA128  | 06        |     |      | 16B         | 9    |       |        | SPI010  | 01       |         | 01     | 1                | TLD   | A1                  | 06A                |                    |        |
| 20364   | XA127  | 09        |     |        |           |     |      |             |      |       | M      | SP0002  | 01       |         | 00     | 1                | TLD   | A3                  | 04B                |                    |        |
| 05069   | XA127  | 10        |     | XA127  | 24        |     |      | 16B         | 9    |       |        | SPI009  | 04       |         | 01     | 2                | TLD   | A1                  | 07A                |                    |        |
| 05068   | XA127  | 11        |     | XA127  | 10        |     |      | 16B         | 9    |       |        | SPI009  | 03       |         | 01     | 1                | TLD   | A4                  | 05B                |                    |        |
| 00324   | XA127  | 12        |     |        |           |     |      |             |      |       |        | +5V     | 01       |         |        |                  | TLD   |                     |                    |                    |        |
| 05126   | XA127  | 13        |     | XA127  | 07        |     |      | 16B         | 9    |       |        | SPI010  | 29       |         | 01     | 2                | TLD   | A4                  | 06B                |                    |        |
| 03749   | XA127  | 14        |     |        |           |     |      |             |      |       |        | JDIG6D4 | 03       | JDIG6D4 | 00     | 1                | TLD   | B2                  | 09A                | MEMORY CYCLE COMP  |        |
| 20365   | XA127  | 15        |     |        |           |     |      |             |      |       | M      | SP0003  | 01       |         | 00     | 1                | TLD   | A4                  | 07B                |                    |        |
| 01821   | XA127  | 16        |     |        |           |     |      |             |      |       |        | GND     | 01       |         |        |                  | TLD   |                     | 01B                |                    |        |
| 21411   | XA127  | 16        |     | XA301  | 18        |     |      | CW          | 1EB  | 0     |        | JDB08G  | 01       |         |        |                  | TLD   |                     | 01B                |                    | C07    |
| 21413   | XA127  | 16        |     | XA301  | 20        |     |      | CX          | 1EB  | 0     |        | JDB09G  | 01       |         |        |                  | TLD   |                     | 01B                |                    | C07    |
| 15831   | XA127  | 17        |     | XA137  | 22        |     |      |             | 16B  | 9     |        | TS02C0  | 02       | JDIG5D4 | 01     | 1                | TLD   | B3                  | 08B                |                    |        |
| 15796   | XA127  | 18        |     |        |           |     |      |             |      |       |        | TS01C0  | 04       | JDIG6D4 | 01     | 1                | TLD   | B2                  | 10A                |                    |        |
| 10721   | XA127  | 19        |     |        |           |     |      |             |      |       |        | TDIGB5  | 03       | JDIG5D4 | 01     | 2                | TLD   | B3                  | 09B                |                    |        |
| 10724   | XA127  | 20        |     | XA125  | 80        |     |      | 16B         | 9    |       |        | TDIG60  | 01       | JDIG6D4 | 01     | 2                | TLD   | B2                  | 11A                |                    |        |
| 03746   | XA127  | 21        |     |        |           |     |      |             |      |       |        | JDIG5D4 | 03       | JDIG5D4 | 00     | 1                | TLD   | B3                  | 10B                | 7 BYTES IN MEM CY  |        |
| 20366   | XA127  | 22        |     |        |           |     |      |             |      |       | M      | SP0004  | 01       |         | 00     | 1                | TLD   | B1                  | 12A                |                    |        |
| 09777   | XA127  | 23        |     |        |           |     |      |             |      |       |        | TCMW40  | 03       | JDIG4D4 | 01     | 1                | TLD   | B4                  | 11B                |                    |        |
| 05070   | XA127  | 24        |     | XA127  | 31        |     |      | 16B         | 9    |       |        | SPI009  | 05       |         | 01     | 1                | TLD   | B1                  | 13A                |                    |        |
| 09765   | XA127  | 25        |     | XA135  | 71        |     |      | 16B         | 9    |       |        | TCMP40  | 01       | JDIG4D4 | 01     | 2                | TLD   | B4                  | 12B                |                    |        |
| 05124   | XA127  | 26        |     | XA128  | 25        |     |      | 16B         | 9    |       |        | SPI010  | 27       |         | 01     | 2                | TLD   | B1                  | 14A                |                    |        |
| 03743   | XA127  | 27        |     |        |           |     |      |             |      |       |        | JDIG4D4 | 03       | JDIG4D4 | 00     | 1                | TLD   | B4                  | 13B                | DIAGNOSE LIGHT 4 D |        |
| 00325   | XA127  | 28        |     |        |           |     |      |             |      |       |        | +5V     | 01       |         |        |                  | TLD   |                     |                    |                    |        |
| 09286   | XA127  | 29        |     |        |           |     |      |             |      |       |        | TBY1C0  | 02       | JDIG1D4 | 01     | 1                | TLD   | C3                  | 14B                |                    |        |
| 03737   | XA127  | 30        |     |        |           |     |      |             |      |       |        | JDIG2D4 | 03       | JDIG2D4 | 00     | 1                | TLD   | C2                  | 15A                | DIAGNOSE LIGHT 2   |        |
| 05071   | XA127  | 31        |     | XA127  | 35        |     |      | 16B         | 9    |       |        | SPI009  | 06       | JDIG1D4 | 01     | 2                | TLD   | C3                  | 15B                |                    |        |
| 01822   | XA127  | 32        |     |        |           |     |      |             |      |       |        | GND     | 01       |         |        |                  | TLD   |                     | 21B                |                    |        |
| 21425   | XA127  | 32        |     | XA119  | 58        |     |      | DT          | 1EB  | 0     |        | JDB15G  | 01       |         |        |                  | TLD   |                     | 21B                |                    | C07    |
| 21427   | XA127  | 32        |     | XA119  | 58        |     |      | DU          | 1EB  | 0     |        | JDB16G  | 01       |         |        |                  | TLD   |                     | 21B                |                    | C07    |
| 03734   | XA127  | 33        |     |        |           |     |      |             |      |       |        | JDIG1D4 | 03       | JDIG1D4 | 00     | 1                | TLD   | C3                  | 16B                | DIAGNOSE LIGHT 1   |        |
| 09759   | XA127  | 34        |     | XA135  | 80        |     |      | 16B         | 9    |       |        | TCMP20  | 01       | JDIG2D4 | 01     | 1                | TLD   | C2                  | 16A                |                    |        |
| 05072   | XA127  | 35        |     | XA127  | 40        |     |      | 16B         | 9    |       |        | SPI009  | 07       |         | 01     | 1                | TLD   | C4                  | 17B                |                    |        |
| 09772   | XA127  | 36        |     |        |           |     |      |             |      |       |        | TCMW20  | 03       | JDIG2D4 | 01     | 2                | TLD   | C2                  | 17A                |                    |        |
| CONNECTOR XA127 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |         |          |         |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA127  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 49

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST. MISC | SIGNAL | SEQ NO  | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|----------------|--------|---------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SMTC | PREFIX | CONNECTOR | PIN | SMTC | MULTI-GROUP | CODE | COLOR | IDENT |                |        |         |          |      |        |                  |       |                     |                    |                    |        |
| 05123   |        | XA127     | 37  |      | XA127  | 26        |     |      | 16B         | 9    |       |       | SPI010         | 26     |         | 01       | 2    | TLD    | C4               |       |                     | 18B                |                    |        |
| 03740   |        | XA127     | 38  |      |        |           |     |      |             |      |       |       | JDIG3D4        | 03     | JDIG3D4 | 03       | 1    | TLD    | C1               |       |                     | 18A                | DIAGNOSE LIGHT 3   |        |
| 20367   |        | XA127     | 39  |      |        |           |     |      |             |      |       |       | SPO005         | 01     |         | 00       | 1    | TLD    | C4               |       |                     | 19B                |                    |        |
| 05073   |        | XA127     | 40  |      | XA127  | 56        |     |      | 16B         | 9    |       |       | SPI009         | 08     | JDIG3D4 | 01       | 1    | TLD    | C1               |       |                     | 19A                |                    |        |
| 05136   |        | XA127     | 41  |      | XA127  | 47        |     |      | 16B         | 9    |       |       | SPI011         | 05     | JIPEB04 | 01       | 1    | TLD    | D3               |       |                     | 22B                | ERROE              |        |
| 09291   |        | XA127     | 42  |      |        |           |     |      |             |      |       |       | TBY2C0         | 02     | JDIG3D4 | 01       | 2    | TLD    | C1               |       |                     | 20A                |                    |        |
| 13417   |        | XA127     | 43  |      | XA133  | 71        |     |      | 16B         | 9    |       |       | TIPEBQ         | 04     | JIPEB04 | 01       | 2    | TLD    | D3               |       |                     | 23B                |                    |        |
| 01823   |        | XA127     | 44  |      |        |           |     |      |             |      |       |       | GND            | 01     |         |          |      | TLD    |                  |       |                     | 27A                |                    |        |
| 03755   |        | XA127     | 45  |      | XA121  | 78        |     |      | 16B         | 9    |       |       | JIPEB04        | 01     | JIPEB04 | 00       | 1    | TLD    | D3               |       |                     | 24B                | INPUT PARITY (DEV  |        |
| 03766   |        | XA127     | 46  |      | XA204  | 35        |     |      | 16B         | 9    |       |       | JITT0D4        | 01     | JITT0D4 | 03       | 1    | TLD    | D2               |       |                     | 21A                | DEVICE TIMEOUT     |        |
| 05137   |        | XA127     | 47  |      | XA127  | 48        |     |      | 16B         | 9    |       |       | SPI011         | 06     | JACKAD4 | 01       | 1    | TLD    | D4               |       |                     | 25B                |                    |        |
| 05138   |        | XA127     | 48  |      | XA128  | 50        |     |      | 16B         | 9    |       |       | SPI011         | 07     | JITT0D4 | 01       | 1    | TLD    | D2               |       |                     | 22A                |                    |        |
| 08200   |        | XA127     | 49  |      |        |           |     |      |             |      |       |       | TACKA0         | 02     | JACKAD4 | 01       | 2    | TLD    | D4               |       |                     | 26B                |                    |        |
| 13457   |        | XA127     | 50  |      | XA143  | 55        |     |      | 16B         | 9    |       |       | TITHRQ         | 02     | JITT0D4 | 01       | 2    | TLD    | D2               |       |                     | 23A                |                    |        |
| 03524   |        | XA127     | 51  |      |        |           |     |      |             |      |       |       | JACKAD4        | 04     | JACKAD4 | 03       | 1    | TLD    | D4               |       |                     | 27B                | CPU ACKNOWLEDGE    |        |
| 20368   |        | XA127     | 52  |      |        |           |     |      |             |      |       |       | SPO006         | 01     |         | 03       | 1    | TLD    | D1               |       |                     | 24A                |                    |        |
| 16541   |        | XA127     | 53  |      | XA127  | 59        |     |      | 16B         | 9    |       |       | TTDM00         | 01     | TD02CD  | 01       | 1    | TLD    | E3               |       |                     | 28B                |                    |        |
| 05120   |        | XA127     | 54  |      | XA128  | 54        |     |      | 16B         | 9    |       |       | SPI010         | 23     |         | 01       | 1    | TLD    | D1               |       |                     | 25A                |                    |        |
| 11376   |        | XA127     | 55  |      | XA231  | 17        |     |      | 16B         | 9    |       |       | TD02BQ         | 01     | TD02CD  | 01       | 2    | TLD    | E3               |       |                     | 29B                |                    |        |
| 05074   |        | XA127     | 56  |      | XA125  | 55        |     |      | 16B         | 9    |       |       | SPI009         | 09     |         | 01       | 2    | TLD    | D1               |       |                     | 26A                |                    | D01    |
| 03544   |        | XA127     | 57  |      |        |           |     |      |             |      |       |       | TD02CD         | 08     | JDB02B4 | 01       | 1    | TLD    | E3               |       |                     | 30B                | DATA TO CPU        | C07    |
| 11383   |        | XA127     | 57  |      |        |           |     |      |             |      |       |       | TD02CD         | 01     | TD02CD  | 00       | 1    | TLD    | E3               |       |                     | 30B                | JDB02B4 BUSS       |        |
| 01824   |        | XA127     | 58  |      |        |           |     |      |             |      |       |       | GND            | 01     |         |          |      | TLD    |                  |       |                     | 40A                |                    |        |
| 16542   |        | XA127     | 59  |      | XA127  | 65        |     |      | 16B         | 9    |       |       | TTDM00         | 02     | TD03CD  | 01       | 1    | TLD    | E4               |       |                     | 31B                |                    |        |
| 03538   |        | XA127     | 60  |      |        |           |     |      |             |      |       |       | TD01CD         | 08     | JDB01B4 | 01       | 1    | TLD    | E2               |       |                     | 28A                | DATA TO CPU        | C07    |
| 11343   |        | XA127     | 60  |      |        |           |     |      |             |      |       |       | TD01CD         | 01     | TD01CD  | 00       | 1    | TLD    | E2               |       |                     | 28A                | JDB01B4 BUSS       |        |
| 11422   |        | XA127     | 61  |      | XA229  | 19        |     |      | 16B         | 9    |       |       | TD03BQ         | 01     | TD03CD  | 01       | 2    | TLD    | E4               |       |                     | 32B                |                    |        |
| 11336   |        | XA127     | 62  |      | XA229  | 07        |     |      | 16B         | 9    |       |       | TD01BQ         | 01     | TD01CD  | 01       | 1    | TLD    | E2               |       |                     | 29A                |                    |        |
| 03553   |        | XA127     | 63  |      | XA125  | 05        |     |      | 16B         | 9    |       |       | TD03CD         | 05     | JDB03B4 | 01       | 1    | TLD    | E4               |       |                     | 33B                | DATA TO CPU        |        |
| 11429   |        | XA127     | 63  |      |        |           |     |      |             |      |       |       | TD03CD         | 01     | TD03CD  | 00       | 1    | TLD    | E4               |       |                     | 33B                | JDB03B4 BUSS       |        |
| 16544   |        | XA127     | 64  |      | XA127  | 70        |     |      | 16B         | 9    |       |       | TTDM00         | 04     | TD01CD  | 01       | 2    | TLD    | E2               |       |                     | 30A                |                    |        |
| 16543   |        | XA127     | 65  |      | XA127  | 64        |     |      | 16B         | 9    |       |       | TTDM00         | 03     | TD06CD  | 01       | 1    | TLD    | F3               |       |                     | 34B                |                    |        |
| 03532   |        | XA127     | 66  |      |        |           |     |      |             |      |       |       | TD00CD         | 08     | JDB00B4 | 01       | 1    | TLD    | E1               |       |                     | 31A                | DATA TO CPU        | C07    |
| 11300   |        | XA127     | 66  |      |        |           |     |      |             |      |       |       | TD00CD         | 01     | TD00CD  | 03       | 1    | TLD    | E1               |       |                     | 31A                | JDB00B4 BUSS       |        |
| 01825   |        | XA127     | 67  |      |        |           |     |      |             |      |       |       | GND            | 01     |         |          |      | TLD    |                  |       |                     |                    |                    |        |
| 21453   |        | XA127     | 67  |      |        |           |     |      |             |      |       |       | JDB29G         | 02     |         |          |      | TLD    |                  |       |                     |                    |                    | C07    |
| 21457   |        | XA127     | 67  |      |        |           |     |      |             |      |       |       | JDB31G         | 02     |         |          |      | TLD    |                  |       |                     |                    |                    | C07    |
| 11293   |        | XA127     | 68  |      | XA231  | 03        |     |      | 16B         | 9    |       |       | TD00BQ         | 01     | TD00CD  | 01       | 1    | TLD    | E1               |       |                     | 32A                |                    |        |
| 03570   |        | XA127     | 69  |      | XA125  | 22        |     |      | 16B         | 9    |       |       | TD06CD         | 04     | JDB06B4 | 01       | 1    | TLD    | F3               |       |                     | 35A                | DATA TO CPU        |        |
| 11537   |        | XA127     | 69  |      |        |           |     |      |             |      |       |       | TD06CD         | 01     | TD06CD  | 00       | 1    | TLD    | F3               |       |                     | 35A                | JDB06B4 BUSS       |        |
| 16545   |        | XA127     | 70  |      | XA127  | 71        |     |      | 16B         | 9    |       |       | TTDM00         | 05     | TD00CD  | 01       | 2    | TLD    | E1               |       |                     | 33A                |                    |        |
| 16546   |        | XA127     | 71  |      | XA127  | 79        |     |      | 16B         | 9    |       |       | TTDM00         | 06     | TD05CD  | 01       | 1    | TLD    | F2               |       |                     | 36A                |                    |        |
| 03563   |        | XA127     | 72  |      | XA427  | 46        |     |      | 16B         | 9    |       |       | TD05CD         | 03     | JDB05B4 | 01       | 1    | TLD    | F2               |       |                     | 34A                | DATA TO CPU        |        |
| 11501   |        | XA127     | 72  |      |        |           |     |      |             |      |       |       | TD05CD         | 01     | TD05CD  | 00       | 1    | TLD    | F2               |       |                     | 34A                | JDB05B4 BUSS       |        |
| 11494   |        | XA127     | 73  |      | XA229  | 31        |     |      | 16B         | 9    |       |       | TD05BQ         | 01     | TD05CD  | 01       | 2    | TLD    | F2               |       |                     | 36B                |                    |        |
| 11530   |        | XA127     | 74  |      | XA229  | 49        |     |      | 16B         | 9    |       |       | TD06BQ         | 01     | TD06CD  | 01       | 2    | TLD    | F3               |       |                     | 35B                |                    |        |
| 03559   |        | XA127     | 75  |      | XA125  | 09        |     |      | 16B         | 9    |       |       | TD04CD         | 05     | JDB04B4 | 01       | 1    | TLD    | F1               |       |                     | 37B                | DATA TO CPU        |        |
| 11465   |        | XA127     | 75  |      |        |           |     |      |             |      |       |       | TD04CD         | 01     | TD04CD  | 00       | 1    | TLD    | F1               |       |                     | 37B                | JDB04B4 BUSS       |        |
| 16555   |        | XA127     | 76  |      | XA351  | 15        |     |      | 16B         | 9    |       |       | TTDM10         | 07     | TD07CD  | 01       | 1    | TLD    | F4               |       |                     | 37A                |                    |        |
| 11458   |        | XA127     | 77  |      | XA231  | 29        |     |      | 16B         | 9    |       |       | TD04BQ         | 01     | TD04CD  | 01       | 1    | TLD    | F1               |       |                     | 38B                |                    |        |
| CONNECTOR (XA127) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |                |        |         |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA127  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 50

| RECORD NUMBER                                     | FROM   |           |     |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|--------|-----------|-----|----|-------------|------|-------|-------|--------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | FIN | PL | PREFIX | CONNECTOR | FIN | PL | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |      |                  |       |                     |                    |                    |        |
| 11566   |        | XA127     | 78  |    | XA229  | 43        |     |    |             | 16B  | 9     |       | TD07BQ | 01     | TD07CD   | 01   | 2    | TLD              | F4    |                     | 38A                |                    |        |
| 16547   |        | XA127     | 79  |    | XA351  | 07        |     |    |             | 16B  | 9     |       | TTDM00 | 07     | TD04CD   | 01   | 2    | TLD              | F1    |                     | 39B                |                    |        |
| 03577   |        | XA127     | 80  |    | XA125  | 23        |     |    |             | 16B  | 9     |       | TD07CD | 05     | JDB07B4  | 01   | 1    | TLD              | F4    |                     | 39A                | DATA TO CPU        |        |
| 11573   |        | XA127     | 80  |    |        |           |     |    |             |      |       |       | TD07CD | 01     | TD07CD   | 00   | 1    | TLD              | F4    |                     | 39A                | JDB07B4 BUSS       |        |
| 14820   |        | XA128     | 01  |    | XA133  | 51        |     |    |             | 16B  | 9     |       | TPR01A | 01     | TDS000   | 01   | 1    | TS8              | A1    |                     | 02B                |                    |        |
| 01826   |        | XA128     | 02  |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |      | TS8              |       |                     | 01A                |                    |        |
| 00806   |        | XA128     | 03  |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 15135   |        | XA128     | 04  |    | XA132  | 27        |     |    |             | 16B  | 9     |       | TQ000A | 01     | TDS000   | 01   | 2    | TS8              | A1    |                     | 04A                |                    |        |
| 14905   |        | XA128     | 05  |    | XA131  | 06        |     |    |             | 16B  | 9     |       | TP000A | 01     | TDS000   | 01   | 3    | TS8              | A1    |                     | 03B                |                    |        |
| 05129   |        | XA128     | 06  |    | XA120  | 45        |     |    |             | 16B  | 9     |       | SPI010 | 32     | TDS000   | 01   | 4    | TS8              | A1    |                     | 05A                |                    |        |
| 05133   |        | XA128     | 07  |    | XA128  | 20        |     |    |             | 16B  | 9     |       | SPI011 | 02     | TDS000   | 01   | 5    | TS8              | A1    |                     | 03A                |                    |        |
| 11304   |        | XA128     | 08  |    | XA422  | 06        |     |    |             | 16B  | 9     |       | TD00SA | 01     | TDS000   | 01   | 6    | TS8              | A1    |                     | 06A                |                    |        |
| 00807   |        | XA128     | 09  |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 09916   |        | XA128     | 10  |    |        |           |     |    |             |      |       |       | TCST1A | 03     | TDS000   | 01   | 7    | TS8              | A1    |                     | 07A                |                    |        |
| 11150   |        | XA128     | 11  |    | XA226  | 11        |     |    |             | 16B  | 9     |       | TDS000 | 01     | TDS000   | 00   | 1    | TS8              | A1    |                     | 05B                | PRESET INPUT TD    |        |
| 00326   |        | XA128     | 12  |    |        |           |     |    |             |      |       |       | +5V    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 14877   |        | XA128     | 13  |    | XA133  | 69        |     |    |             | 16B  | 9     |       | TPSTFA | 01     | TDS000   | 01   | 8    | TS8              | A1    |                     | 06B                |                    |        |
| 11347   |        | XA128     | 14  |    | XA422  | 01        |     |    |             | 16B  | 9     |       | TD01SA | 01     | TDS010   | 01   | 1    | TS8              | B1    |                     | 09A                |                    |        |
| 00808   |        | XA128     | 15  |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 01827   |        | XA128     | 16  |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |      | TS8              |       |                     | 21B                |                    |        |
| 00809   |        | XA128     | 17  |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 09705   |        | XA128     | 18  |    | XA116  | 51        |     |    |             | 16B  | 9     |       | TC024A | 01     | TDS010   | 01   | 2    | TS8              | B1    |                     | 10A                |                    |        |
| 15138   |        | XA128     | 19  |    |        |           |     |    |             |      |       |       | TQ010A | 02     | TDS010   | 01   | 3    | TS8              | B1    |                     | 09B                |                    |        |
| 05134   |        | XA128     | 20  |    | XA128  | 38        |     |    |             | 16B  | 9     |       | SPI011 | 03     | TDS010   | 01   | 4    | TS8              | B1    |                     | 11A                |                    |        |
| 00810   |        | XA128     | 21  |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 14918   |        | XA128     | 22  |    | XA131  | 09        |     |    |             | 16B  | 9     |       | TP011A | 01     | TDS010   | 01   | 5    | TS8              | B1    |                     | 12A                |                    |        |
| 11154   |        | XA128     | 23  |    | XA226  | 06        |     |    |             | 16B  | 9     |       | TDS010 | 01     | TDS010   | 00   | 1    | TS8              | B1    |                     | 11B                | PRESET TO BIT 01   |        |
| 14917   |        | XA128     | 24  |    |        |           |     |    |             |      |       |       | TP010A | 02     | TDS010   | 01   | 6    | TS8              | B1    |                     | 13A                |                    |        |
| 05125   |        | XA128     | 25  |    | XA127  | 13        |     |    |             | 16B  | 9     |       | SPI010 | 28     | TDS010   | 01   | 7    | TS8              | B1    |                     | 12B                |                    |        |
| 14880   |        | XA128     | 26  |    |        |           |     |    |             |      |       |       | TPSTIA | 02     | TDS010   | 01   | 8    | TS8              | B1    |                     | 14A                |                    |        |
| 00811   |        | XA128     | 27  |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 00327   |        | XA128     | 28  |    |        |           |     |    |             |      |       |       | +5V    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 00812   |        | XA128     | 29  |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 11608   |        | XA128     | 30  |    | XA422  | 38        |     |    |             | 16B  | 9     |       | TD08SA | 01     | TDS080   | 01   | 1    | TS8              | C1    |                     | 15A                |                    |        |
| 14955   |        | XA128     | 31  |    |        |           |     |    |             |      |       |       | TP08IA | 02     | TDS080   | 01   | 2    | TS8              | C1    |                     | 15B                |                    |        |
| 01828   |        | XA128     | 32  |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |      | TS8              |       |                     | 27A                |                    |        |
| 00813   |        | XA128     | 33  |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 09704   |        | XA128     | 34  |    |        |           |     |    |             |      |       |       | TC023A | 02     | TDS080   | 01   | 3    | TS8              | C1    |                     | 16A                |                    |        |
| 11182   |        | XA128     | 35  |    | XA226  | 64        |     |    |             | 16B  | 9     |       | TDS080 | 01     | TDS080   | 00   | 1    | TS8              | C1    |                     | 17B                | PRESET TO BIT 08   |        |
| 14876   |        | XA128     | 36  |    |        |           |     |    |             |      |       |       | TPSTEA | 02     | TDS080   | 01   | 4    | TS8              | C1    |                     | 17A                |                    |        |
| 14952   |        | XA128     | 37  |    | XA131  | 51        |     |    |             | 16B  | 9     |       | TP080A | 01     | TDS080   | 01   | 5    | TS8              | C1    |                     | 18B                |                    |        |
| 05135   |        | XA128     | 38  |    | XA127  | 41        |     |    |             | 16B  | 9     |       | SPI011 | 04     | TDS080   | 01   | 6    | TS8              | C1    |                     | 18A                |                    |        |
| 00814   |        | XA128     | 39  |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 05122   |        | XA128     | 40  |    | XA127  | 37        |     |    |             | 16B  | 9     |       | SPI010 | 25     | TDS080   | 01   | 7    | TS8              | C1    |                     | 19A                |                    |        |
| 00815   |        | XA128     | 41  |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                     |                    |                    |        |
| 15151   |        | XA128     | 42  |    | XA132  | 51        |     |    |             | 16B  | 9     |       | TQ080A | 01     | TDS080   | 01   | 8    | TS8              | C1    |                     | 20A                |                    |        |
| 14956   |        | XA128     | 43  |    | XA131  | 60        |     |    |             | 16B  | 9     |       | TP090A | 01     | TDS090   | 01   | 1    | TS8              | D1    |                     | 23B                |                    |        |
| 01829   |        | XA128     | 44  |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |      | TS8              |       |                     | 40A                |                    |        |
| CONNECTOR (XA128) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |    |             |      |       |       |        |        |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA128  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 51

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION  | ECO NO |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|---------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | INT | PREFIX | CONNECTOR | PIN | INT | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                     |        |
| 00816         |        | XA128     | 45                              |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                     |        |
| 11639         |        | XA128     | 46                              |     | XA422  | 30        |     |     | 16B         | 9    |       |       | TD09SA | 01     | TDS090   | 01   | 2      | TS8              | D1    |                     | 21A                |                     |        |
| 11186         |        | XA128     | 47                              |     | XA226  | 61        |     |     | 16B         | 9    |       |       | TDS090 | 01     | TDS090   | 00   | 1      | TS8              | D1    |                     | 25B                | PRESET TO BIT 09    |        |
| 15153         |        | XA128     | 48                              |     | XA132  | 66        |     |     | 16B         | 9    |       |       | TQ090A | 01     | TDS090   | 01   | 3      | TS8              | D1    |                     | 22A                |                     |        |
| 16697         |        | XA128     | 49                              |     |        |           |     |     |             |      |       |       | TTWPCA | 03     | TDS090   | 01   | 4      | TS8              | D1    |                     | 26B                |                     |        |
| 05139         |        | XA128     | 50                              |     | XA128  | 62        |     |     | 16B         | 9    |       |       | SPI011 | 08     | TDS090   | 01   | 5      | TS8              | D1    |                     | 23A                |                     |        |
| 00817         |        | XA128     | 51                              |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                     |        |
| 04956         |        | XA128     | 52                              |     | XA143  | 41        |     |     | 16B         | 9    |       |       | SPI003 | 25     | TDS090   | 01   | 6      | TS8              | D1    |                     | 24A                |                     | C10    |
| 00818         |        | XA128     | 53                              |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                     |        |
| 05121         |        | XA128     | 54                              |     | XA128  | 40        |     |     | 16B         | 9    |       |       | SPI010 | 24     | TDS090   | 01   | 7      | TS8              | D1    |                     | 25A                |                     |        |
| 16950         |        | XA128     | 55                              |     | XA114  | 01        |     |     | 16B         | 9    |       |       | TXC1BP | 06     | TER4AA   | 01   | 1      | TS8              | E1    |                     | 29B                |                     |        |
| 14959         |        | XA128     | 56                              |     |        |           |     |     |             |      |       |       | TPO91A | 02     | TDS090   | 01   | 8      | TS8              | D1    |                     | 26A                |                     |        |
| 00819         |        | XA128     | 57                              |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                     |        |
| 01830         |        | XA128     | 58                              |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     |                    |                     |        |
| 12561         |        | XA128     | 59                              |     | XA250  | 73        |     |     | 16B         | 9    |       |       | TER4AA | 01     | TER4AA   | 00   | 1      | TS8              | E1    |                     | 31B                | TE0007 RESET C=1C05 |        |
| 08806         |        | XA128     | 60                              |     |        |           |     |     |             |      |       |       | TBC4BP | 07     | TER4AA   | 01   | 2      | TS8              | E1    |                     | 28A                |                     |        |
| 05119         |        | XA128     | 61                              |     | XA127  | 54        |     |     | 16B         | 9    |       |       | SPI010 | 22     | TER4AA   | 01   | 3      | TS8              | E1    |                     | 32B                |                     |        |
| 05140         |        | XA128     | 62                              |     | XA128  | 72        |     |     | 16B         | 9    |       |       | SPI011 | 09     | TER4AA   | 01   | 4      | TS8              | E1    |                     | 29A                |                     |        |
| 00820         |        | XA128     | 63                              |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                     |        |
| 13530         |        | XA128     | 64                              |     | XA116  | 73        |     |     | 16B         | 9    |       |       | TI10BQ | 06     | TER4AA   | 01   | 5      | TS8              | E1    |                     | 30A                |                     |        |
| 00821         |        | XA128     | 65                              |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                     |        |
| 16986         |        | XA128     | 66                              |     | XA147  | 26        |     |     | 16B         | 9    |       |       | TXC2BQ | 005    | TER4AA   | 01   | 6      | TS8              | E1    |                     | 31A                |                     | C08    |
| 01831         |        | XA128     | 67                              |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     |                    |                     |        |
| 10048         |        | XA128     | 68                              |     |        |           |     |     |             |      |       |       | TER6AA | 02     | TER4AA   | 01   | 7      | TS8              | E1    |                     | 32A                |                     | C08    |
| 00822         |        | XA128     | 69                              |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                     |        |
| 17009         |        | XA128     | 70                              |     | XA128  | 77        |     |     | 16B         | 9    |       |       | TXC3BQ | 05     | TER4AA   | 01   | 8      | TS8              | E1    |                     | 33A                |                     |        |
| 04955         |        | XA128     | 71                              |     | XA128  | 52        |     |     | 16B         | 9    |       |       | SPI003 | 24     | TXC13A   | 01   | 1      | TS8              | F1    |                     | 36A                |                     |        |
| 05141         |        | XA128     | 72                              |     | XA133  | 70        |     |     | 16B         | 9    |       |       | SPI011 | 10     | TXC13A   | 01   | 2      | TS8              | F1    |                     | 34A                |                     |        |
| 05118         |        | XA128     | 73                              |     | XA128  | 61        |     |     | 16B         | 9    |       |       | SPI010 | 21     | TXC13A   | 01   | 3      | TS8              | F1    |                     | 36B                |                     |        |
| 08758         |        | XA128     | 74                              |     | XA112  | 47        |     |     | 16B         | 9    |       |       | TBC1BQ | 06     | TXC13A   | 01   | 4      | TS8              | F1    |                     | 35B                |                     |        |
| 16987         |        | XA128     | 75                              |     | XA206  | 26        |     |     | 16B         | 9    |       |       | TXC2BP | 08     | TXC13A   | 01   | 5      | TS8              | F1    |                     | 37B                |                     |        |
| 16973         |        | XA128     | 76                              |     |        |           |     |     |             |      |       |       | TXC13A | 02     | TXC13A   | 00   | 1      | TS8              | F1    |                     | 37A                | I2.C1*.C2*.C3.BY    |        |
| 17010         |        | XA128     | 77                              |     | XA114  | 04        |     |     | 16B         | 9    |       |       | TXC3BQ | 06     | TXC13A   | 01   | 6      | TS8              | F1    |                     | 38B                |                     | A01    |
| 16949         |        | XA128     | 78                              |     | XA128  | 55        |     |     | 16B         | 9    |       |       | TXC1BP | 05     | TXC13A   | 01   | 7      | TS8              | F1    |                     | 38A                |                     |        |
| 13578         |        | XA128     | 79                              |     | XA141  | 08        |     |     | 16B         | 9    |       |       | TI20BQ | 05     | TXC13A   | 01   | 8      | TS8              | F1    |                     | 39B                |                     |        |
| 00823         |        | XA128     | 80                              |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                     |        |
| 11433         |        | XA129     | 01                              |     | XA422  | 15        |     |     | 16B         | 9    |       |       | TD03SA | 01     | TDS030   | 01   | 1      | TD4              | A2    |                     | 02B                |                     |        |
| 01832         |        | XA129     | 02                              |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TD4              |       |                     | 01A                |                     |        |
| 00824         |        | XA129     | 03                              |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                     |        |
| 15142         |        | XA129     | 04                              |     |        |           |     |     |             |      |       |       | TQ030A | 02     | TDS030   | 01   | 2      | TD4              | A2    |                     | 04A                |                     |        |
| 14929         |        | XA129     | 05                              |     |        |           |     |     |             |      |       |       | TPO31A | 02     | TDS030   | 01   | 3      | TD4              | A2    |                     | 03B                |                     |        |
| 11387         |        | XA129     | 06                              |     | XA422  | 09        |     |     | 16B         | 9    |       |       | TD02SA | 01     | TDS020   | 01   | 1      | TD4              | A1    |                     | 05A                |                     |        |
| 14926         |        | XA129     | 07                              |     | XA131  | 14        |     |     | 16B         | 9    |       |       | TPO30A | 01     | TDS030   | 01   | 4      | TD4              | A2    |                     | 03A                |                     |        |
| 14920         |        | XA129     | 08                              |     | XA131  | 15        |     |     | 16B         | 9    |       |       | TPO20A | 01     | TDS020   | 01   | 2      | TD4              | A1    |                     | 06A                |                     |        |
| 11162         |        | XA129     | 09                              |     | XA226  | 23        |     |     | 16B         | 9    |       |       | TDS030 | 01     | TDS030   | 00   | 1      | TD4              | A2    |                     | 04B                | PRESET TO BIT 03    |        |
| 15139         |        | XA129     | 10                              |     | XA132  | 30        |     |     | 16B         | 9    |       |       | TQ020A | 01     | TDS020   | 01   | 3      | TD4              | A1    |                     | 07A                |                     |        |
| 11111         |        | XA129     | 11                              |     | XA226  | 22        |     |     | 16B         | 9    |       |       | TDS020 | 01     | TDS020   | 00   | 1      | TD4              | A1    |                     | 05B                | PRESET TO BIT 02    |        |
| 00311         |        | XA129     | 12                              |     |        |           |     |     |             |      |       |       | +5V    | 01     |          |      |        | TD4              |       |                     |                    |                     |        |
| CONNECTOR     |        | XA129     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                     |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA129  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 52

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14923   |        | XA129     | 13  |        |           |     |             |      |       |       | TP021A | 02     | TDS020   | 01   | 4      | TD4              | A1    |                     | 06B                |                    |        |
| 11505   |        | XA129     | 14  |        | XA422     | 14  |             | 16B  | 9     |       | TD05SA | 01     | TDS050   | 01   | 1      | TD4              | B2    |                     | 09A                |                    |        |
| 00825   |        | XA129     | 15  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 01833   |        | XA129     | 16  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TD4              |       |                     | 20B                |                    |        |
| 00826   |        | XA129     | 17  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 15146   |        | XA129     | 18  |        |           |     |             |      |       |       | TQ050A | 02     | TDS050   | 01   | 2      | TD4              | B2    |                     | 10A                |                    |        |
| 14941   |        | XA129     | 19  |        |           |     |             |      |       |       | TP051A | 02     | TDS050   | 01   | 3      | TD4              | B2    |                     | 09B                |                    |        |
| 14938   |        | XA129     | 20  |        | XA131     | 30  |             | 16B  | 9     |       | TP050A | 01     | TDS050   | 01   | 4      | TD4              | B2    |                     | 11A                |                    |        |
| 11170   |        | XA129     | 21  |        | XA226     | 35  |             | 16B  | 9     |       | TDS050 | 01     | TDS050   | 00   | 1      | TD4              | B2    |                     | 10B                | PRESET TO BIT 09   |        |
| 14933   |        | XA129     | 22  |        |           |     |             |      |       |       | TP041A | 02     | TDS040   | 01   | 1      | TD4              | B1    |                     | 12A                |                    |        |
| 11166   |        | XA129     | 23  |        | XA226     | 38  |             | 16B  | 9     |       | TDS040 | 01     | TDS040   | 00   | 1      | TD4              | B1    |                     | 11B                | PRESET TO BIT 04   |        |
| 15143   |        | XA129     | 24  |        | XA132     | 39  |             | 16B  | 9     |       | TQ040A | 01     | TDS040   | 01   | 2      | TD4              | B1    |                     | 13A                |                    |        |
| 11469   |        | XA129     | 25  |        | XA422     | 22  |             | 16B  | 9     |       | TD04SA | 01     | TDS040   | 01   | 3      | TD4              | B1    |                     | 12B                |                    |        |
| 14930   |        | XA129     | 26  |        | XA131     | 27  |             | 16B  | 9     |       | TP040A | 01     | TDS040   | 01   | 4      | TD4              | B1    |                     | 14A                |                    |        |
| 00827   |        | XA129     | 27  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 00329   |        | XA129     | 28  |        |           |     |             |      |       |       | +5V    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 00828   |        | XA129     | 29  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 11577   |        | XA129     | 30  |        | XA422     | 27  |             | 16B  | 9     |       | TD07SA | 01     | TDS070   | 01   | 1      | TD4              | C2    |                     | 15A                |                    |        |
| 15150   |        | XA129     | 31  |        |           |     |             |      |       |       | TQ070A | 02     | TDS070   | 01   | 2      | TD4              | C2    |                     | 15B                |                    |        |
| 01834   |        | XA129     | 32  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TD4              |       |                     | 21B                |                    |        |
| 11178   |        | XA129     | 33  |        | XA226     | 47  |             | 16B  | 9     |       | TDS070 | 01     | TDS070   | 00   | 1      | TD4              | C2    |                     | 16B                | PRESET TO BIT 07   |        |
| 14948   |        | XA129     | 34  |        | XA131     | 46  |             | 16B  | 9     |       | TP070A | 01     | TDS070   | 01   | 3      | TD4              | C2    |                     | 16A                |                    |        |
| 11174   |        | XA129     | 35  |        | XA226     | 52  |             | 16B  | 9     |       | TDS060 | 01     | TDS060   | 00   | 1      | TD4              | C1    |                     | 17B                | PRESET TO BIT 06   |        |
| 14951   |        | XA129     | 36  |        |           |     |             |      |       |       | TP071A | 02     | TDS070   | 01   | 4      | TD4              | C2    |                     | 17A                |                    |        |
| 14945   |        | XA129     | 37  |        |           |     |             |      |       |       | TP061A | 02     | TDS060   | 01   | 1      | TD4              | C1    |                     | 18B                |                    |        |
| 15147   |        | XA129     | 38  |        | XA132     | 46  |             | 16B  | 9     |       | TQ060A | 01     | TDS060   | 01   | 2      | TD4              | C1    |                     | 18A                |                    |        |
| 00829   |        | XA129     | 39  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 14942   |        | XA129     | 40  |        | XA131     | 39  |             | 16B  | 9     |       | TP060A | 01     | TDS060   | 01   | 3      | TD4              | C1    |                     | 19A                |                    |        |
| 00830   |        | XA129     | 41  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 11541   |        | XA129     | 42  |        | XA422     | 21  |             | 16B  | 9     |       | TD06SA | 01     | TDS060   | 01   | 4      | TD4              | C1    |                     | 20A                |                    |        |
| 11703   |        | XA129     | 43  |        | XA422     | 39  |             | 16B  | 9     |       | TD11SA | 01     | TDS110   | 01   | 1      | TD4              | D2    |                     | 23B                |                    |        |
| 01835   |        | XA129     | 44  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TD4              |       |                     | 27A                |                    |        |
| 11194   |        | XA129     | 45  |        | XA226     | 73  |             | 16B  | 9     |       | TDS110 | 01     | TDS110   | 00   | 1      | TD4              | D2    |                     | 24B                | PRESET TO BIT 11   |        |
| 14964   |        | XA129     | 46  |        | XA131     | 72  |             | 16B  | 9     |       | TP110A | 01     | TDS110   | 01   | 2      | TD4              | D2    |                     | 21A                |                    |        |
| 11190   |        | XA129     | 47  |        | XA226     | 79  |             | 16B  | 9     |       | TDS100 | 01     | TDS100   | 00   | 1      | TD4              | D1    |                     | 25B                | PRESET TO BIT 10   |        |
| 15157   |        | XA129     | 48  |        | XA132     | 57  |             | 16B  | 9     |       | TQ110A | 01     | TDS110   | 01   | 3      | TD4              | D2    |                     | 22A                |                    |        |
| 11670   |        | XA129     | 49  |        | XA422     | 33  |             | 16B  | 9     |       | TD10SA | 01     | TDS100   | 01   | 1      | TD4              | D1    |                     | 26B                |                    |        |
| 14967   |        | XA129     | 50  |        |           |     |             |      |       |       | TP111A | 02     | TDS110   | 01   | 4      | TD4              | D2    |                     | 23A                |                    |        |
| 00831   |        | XA129     | 51  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 14963   |        | XA129     | 52  |        |           |     |             |      |       |       | TP101A | 02     | TDS100   | 01   | 2      | TD4              | D1    |                     | 24A                |                    |        |
| 00832   |        | XA129     | 53  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 15156   |        | XA129     | 54  |        |           |     |             |      |       |       | TQ100A | 02     | TDS100   | 01   | 3      | TD4              | D1    |                     | 25A                |                    |        |
| 11770   |        | XA129     | 55  |        |           |     |             |      |       |       | TD13SA | 02     | TDS130   | 01   | 1      | TD4              | E2    |                     | 29B                |                    |        |
| 14960   |        | XA129     | 56  |        | XA131     | 63  |             | 16B  | 9     |       | TP100A | 01     | TDS100   | 01   | 4      | TD4              | D1    |                     | 26A                |                    |        |
| 11202   |        | XA129     | 57  |        | XA220     | 06  |             | 16B  | 9     |       | TDS130 | 01     | TDS130   | 00   | 1      | TD4              | E2    |                     | 30B                | PRESET TO BIT 13   |        |
| 01836   |        | XA129     | 58  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TD4              |       |                     | 40A                |                    |        |
| 11198   |        | XA129     | 59  |        | XA220     | 11  |             | 16B  | 9     |       | TDS120 | 01     | TDS120   | 00   | 1      | TD4              | E1    |                     | 31B                | PRESET TO BIT 12   |        |
| 15161   |        | XA129     | 60  |        | XA132     | 75  |             | 16B  | 9     |       | TQ130A | 01     | TDS130   | 01   | 2      | TD4              | E2    |                     | 28A                |                    |        |
| 14968   |        | XA129     | 61  |        | XA131     | 80  |             | 16B  | 9     |       | TP120A | 01     | TDS120   | 01   | 1      | TD4              | E1    |                     | 32B                |                    |        |
| 14972   |        | XA129     | 62  |        | XA132     | 01  |             | 16B  | 9     |       | TP130A | 01     | TDS130   | 01   | 3      | TD4              | E2    |                     | 29A                |                    |        |
| CONNECTOR (XA129) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA129  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 53

| RECORD NUMBER | FROM   |           |                                 |       | TO     |           |     |       | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SH 74 | PREFIX | CONNECTOR | PIN | SH 74 | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00833         |        | XA129     | 63                              |       |        |           |     |       |             |      |       |       | DNW           | 01     |        |          |      | TD4    |                  |       |                     |                    |                    |        |
| 14975         |        | XA129     | 64                              |       |        |           |     |       |             |      |       |       | TP131A        | 02     | TDS130 | 01       | 4    | TD4    | E2               |       |                     | 30A                |                    |        |
| 00834         |        | XA129     | 65                              |       |        |           |     |       |             |      |       |       | DNW           | 01     |        |          |      | TD4    |                  |       |                     |                    |                    |        |
| 11738         |        | XA129     | 66                              |       | XA422  | 52        |     |       |             | 16B  | 9     |       | TD12SA        | 01     | TDS120 | 01       | 2    | TD4    | E1               |       |                     | 31A                |                    |        |
| 01837         |        | XA129     | 67                              |       |        |           |     |       |             |      |       |       | GND           | 01     |        |          |      | TD4    |                  |       |                     | 40B                |                    |        |
| 14971         |        | XA129     | 68                              |       |        |           |     |       |             |      |       |       | TP121A        | 02     | TDS120 | 01       | 3    | TD4    | E1               |       |                     | 32A                |                    |        |
| 11210         |        | XA129     | 69                              |       | XA220  | 23        |     |       |             | 16B  | 9     |       | TDS150        | 01     | TDS150 | 00       | 1    | TD4    | F2               |       |                     | 35A                | PRESET TD BIT 15   |        |
| 15160         |        | XA129     | 70                              |       |        |           |     |       |             |      |       |       | TQ120A        | 02     | TDS120 | 01       | 4    | TD4    | E1               |       |                     | 33A                |                    |        |
| 15165         |        | XA129     | 71                              |       | XA132  | 69        |     |       |             | 16B  | 9     |       | TQ150A        | 01     | TDS150 | 01       | 1    | TD4    | F2               |       |                     | 36A                |                    |        |
| 11835         |        | XA129     | 72                              |       | XA422  | 51        |     |       |             | 16B  | 9     |       | TD15SA        | 01     | TDS150 | 01       | 2    | TD4    | F2               |       |                     | 34A                |                    |        |
| 14981         |        | XA129     | 73                              |       |        |           |     |       |             |      |       |       | TP150A        | 02     | TDS150 | 01       | 3    | TD4    | F2               |       |                     | 36B                |                    |        |
| 14982         |        | XA129     | 74                              |       | XA132  | 21        |     |       |             | 16B  | 9     |       | TP151A        | 01     | TDS150 | 01       | 4    | TD4    | F2               |       |                     | 35B                |                    |        |
| 15164         |        | XA129     | 75                              |       |        |           |     |       |             |      |       |       | TQ140A        | 02     | TDS140 | 01       | 1    | TD4    | F1               |       |                     | 37B                |                    |        |
| 11206         |        | XA129     | 76                              |       | XA220  | 22        |     |       |             | 16B  | 9     |       | TDS140        | 01     | TDS140 | 00       | 1    | TD4    | F1               |       |                     | 37A                | PRESET TD BIT 14   |        |
| 14979         |        | XA129     | 77                              |       |        |           |     |       |             |      |       |       | TP141A        | 02     | TDS140 | 01       | 2    | TD4    | F1               |       |                     | 38B                |                    |        |
| 11803         |        | XA129     | 78                              |       |        |           |     |       |             |      |       |       | TD14SA        | 02     | TDS140 | 01       | 3    | TD4    | F1               |       |                     | 38A                |                    |        |
| 14976         |        | XA129     | 79                              |       | XA132  | 15        |     |       |             | 16B  | 9     |       | TP140A        | 01     | TDS140 | 01       | 4    | TD4    | F1               |       |                     | 39B                |                    |        |
| 00835         |        | XA129     | 80                              |       |        |           |     |       |             |      |       |       | DNW           | 01     |        |          |      | TD4    |                  |       |                     |                    |                    |        |
| 06566         |        | XA130     | 01                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 01838         |        | XA130     | 02                              |       |        |           |     |       |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06567         |        | XA130     | 03                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06568         |        | XA130     | 04                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06569         |        | XA130     | 05                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06570         |        | XA130     | 06                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06571         |        | XA130     | 07                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06572         |        | XA130     | 08                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06573         |        | XA130     | 09                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06574         |        | XA130     | 10                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06575         |        | XA130     | 11                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 00330         |        | XA130     | 12                              |       |        |           |     |       |             |      |       |       | +5V           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06576         |        | XA130     | 13                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06577         |        | XA130     | 14                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06578         |        | XA130     | 15                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 01839         |        | XA130     | 16                              |       |        |           |     |       |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06579         |        | XA130     | 17                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06580         |        | XA130     | 18                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06581         |        | XA130     | 19                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06582         |        | XA130     | 20                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06583         |        | XA130     | 21                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06584         |        | XA130     | 22                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06585         |        | XA130     | 23                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06586         |        | XA130     | 24                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06587         |        | XA130     | 25                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06588         |        | XA130     | 26                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06589         |        | XA130     | 27                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 00331         |        | XA130     | 28                              |       |        |           |     |       |             |      |       |       | +5V           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06590         |        | XA130     | 29                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06591         |        | XA130     | 30                              |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| CONNECTOR     |        | XA130     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |       |       |               |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA130  
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| RECORD NUMBER | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 06592         |        | XA130     | 31  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 01840         |        | XA130     | 32  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06593         |        | XA130     | 33  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06594         |        | XA130     | 34  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06595         |        | XA130     | 35  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06596         |        | XA130     | 36  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06597         |        | XA130     | 37  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06598         |        | XA130     | 38  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06599         |        | XA130     | 39  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06600         |        | XA130     | 40  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06601         |        | XA130     | 41  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06602         |        | XA130     | 42  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06603         |        | XA130     | 43  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 01841         |        | XA130     | 44  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06604         |        | XA130     | 45  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06605         |        | XA130     | 46  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06606         |        | XA130     | 47  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06607         |        | XA130     | 48  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06608         |        | XA130     | 49  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06609         |        | XA130     | 50  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06610         |        | XA130     | 51  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06611         |        | XA130     | 52  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06612         |        | XA130     | 53  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06613         |        | XA130     | 54  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06614         |        | XA130     | 55  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06615         |        | XA130     | 56  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06616         |        | XA130     | 57  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 01842         |        | XA130     | 58  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06617         |        | XA130     | 59  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06618         |        | XA130     | 60  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06619         |        | XA130     | 61  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06620         |        | XA130     | 62  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06621         |        | XA130     | 63  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06622         |        | XA130     | 64  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06623         |        | XA130     | 65  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06624         |        | XA130     | 66  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 01843         |        | XA130     | 67  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06625         |        | XA130     | 68  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06626         |        | XA130     | 69  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06627         |        | XA130     | 70  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06628         |        | XA130     | 71  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06629         |        | XA130     | 72  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06630         |        | XA130     | 73  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06631         |        | XA130     | 74  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06632         |        | XA130     | 75  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06633         |        | XA130     | 76  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06634         |        | XA130     | 77  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06635         |        | XA130     | 78  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06636         |        | XA130     | 79  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |
| 06637         |        | XA130     | 80  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA131  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 55

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SFC INST | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|----------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SFC  | MULTI GROUP | CODE | COLOR |          |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14916   |        | XA131     | 01  |        | XA128     | 24  |      |             | 16B  | 9     |          | TP010A | 01     | TP010A   | 00   | 1      | TQ2              | A2    |                     | 02B                | PAR NPL BIT 01 P   |        |
| 01844   |        | XA131     | 02  |        |           |     |      |             |      |       |          | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 14829   |        | XA131     | 03  |        | XA132     | 07  |      |             | 16B  | 9     |          | TPR020 | 03     | TP011A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 14765   |        | XA131     | 04  |        | XA132     | 04  |      |             | 16B  | 9     |          | TPN020 | 03     | TP010A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 14785   |        | XA131     | 05  |        | XA131     | 08  |      |             | 16B  | 9     |          | TPN100 | 02     | TP013A   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 14906   |        | XA131     | 06  |        |           |     |      |             |      |       |          | TP000A | 02     | TP000A   | 00   | 1      | TQ2              | A1    |                     | 05A                | PAR NPL BIT 00 P   |        |
| 14844   |        | XA131     | 07  |        | XA131     | 17  |      |             | 16B  | 9     |          | TPR100 | 01     | TP011A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 14786   |        | XA131     | 08  |        | XA131     | 20  |      |             | 16B  | 9     |          | TPN100 | 03     | TP000A   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 14919   |        | XA131     | 09  |        |           |     |      |             |      |       |          | TP011A | 02     | TP011A   | 00   | 1      | TQ2              | A3    |                     | 04B                | PAR EPL BIT 01 P   |        |
| 14759   |        | XA131     | 10  |        | XA135     | 10  |      |             | 16B  | 9     |          | TPN010 | 04     | TP000A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 14784   |        | XA131     | 11  |        | XA131     | 05  |      |             | 16B  | 9     |          | TPN100 | 01     | TP020A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00332   |        | XA131     | 12  |        |           |     |      |             |      |       |          | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 14772   |        | XA131     | 13  |        | XA132     | 13  |      |             | 16B  | 9     |          | TPN030 | 03     | TP020A   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 14927   |        | XA131     | 14  |        |           |     |      |             |      |       |          | TP030A | 02     | TP030A   | 00   | 1      | TQ2              | B2    |                     | 09A                | PAR NPL BIT 03 P   |        |
| 14921   |        | XA131     | 15  |        |           |     |      |             |      |       |          | TP020A | 02     | TP020A   | 00   | 1      | TQ2              | A4    |                     | 07B                | PAR NPL BIT 02 P   |        |
| 01845   |        | XA131     | 16  |        |           |     |      |             |      |       |          | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 14845   |        | XA131     | 17  |        | XA131     | 26  |      |             | 16B  | 9     |          | TPR100 | 02     | TP031A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 14779   |        | XA131     | 18  |        | XA132     | 18  |      |             | 16B  | 9     |          | TPN040 | 03     | TP030A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 14839   |        | XA131     | 19  |        | XA132     | 19  |      |             | 16B  | 9     |          | TPR040 | 03     | TP031A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 14787   |        | XA131     | 20  |        | XA135     | 14  |      |             | 16B  | 9     |          | TPN100 | 04     | TP030A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 14928   |        | XA131     | 21  |        | XA129     | 05  |      |             | 16B  | 9     |          | TP031A | 01     | TP031A   | 00   | 1      | TQ2              | B3    |                     | 10B                | PAR EPL BIT 03 P   |        |
| 14922   |        | XA131     | 22  |        | XA129     | 13  |      |             | 16B  | 9     |          | TP021A | 01     | TP021A   | 00   | 1      | TQ2              | B1    |                     | 12A                | PAR EPL BIT 02 P   |        |
| 14758   |        | XA131     | 23  |        | XA131     | 10  |      |             | 16B  | 9     |          | TPN010 | 03     | TP040A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 14834   |        | XA131     | 24  |        | XA132     | 24  |      |             | 16B  | 9     |          | TPR030 | 03     | TP021A   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 14794   |        | XA131     | 25  |        | XA135     | 19  |      |             | 16B  | 9     |          | TPN200 | 04     | TP040A   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 14846   |        | XA131     | 26  |        | XA133     | 49  |      |             | 16B  | 9     |          | TPR100 | 03     | TP021A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 14931   |        | XA131     | 27  |        |           |     |      |             |      |       |          | TP040A | 02     | TP040A   | 00   | 1      | TQ2              | B4    |                     | 13B                | PAR NPL BIT 04 P   |        |
| 00333   |        | XA131     | 28  |        |           |     |      |             |      |       |          | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 14851   |        | XA131     | 29  |        | XA131     | 43  |      |             | 16B  | 9     |          | TPR200 | 01     | TP051A   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 14939   |        | XA131     | 30  |        |           |     |      |             |      |       |          | TP050A | 02     | TP050A   | 00   | 1      | TQ2              | C2    |                     | 15A                | PAR NPL BIT 05 P   |        |
| 14828   |        | XA131     | 31  |        | XA131     | 03  |      |             | 16B  | 9     |          | TPR020 | 02     | TP051A   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 01846   |        | XA131     | 32  |        |           |     |      |             |      |       |          | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 14940   |        | XA131     | 33  |        | XA129     | 19  |      |             | 16B  | 9     |          | TP051A | 01     | TP051A   | 00   | 1      | TQ2              | C3    |                     | 16B                | PAR EPL BIT 05 P   |        |
| 14764   |        | XA131     | 34  |        | XA131     | 04  |      |             | 16B  | 9     |          | TPN020 | 02     | TP050A   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 14771   |        | XA131     | 35  |        | XA131     | 13  |      |             | 16B  | 9     |          | TPN030 | 02     | TP060A   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 14792   |        | XA131     | 36  |        | XA131     | 37  |      |             | 16B  | 9     |          | TPN200 | 02     | TP050A   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 14793   |        | XA131     | 37  |        | XA131     | 25  |      |             | 16B  | 9     |          | TPN200 | 03     | TP060A   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 14932   |        | XA131     | 38  |        | XA129     | 22  |      |             | 16B  | 9     |          | TP041A | 01     | TP041A   | 00   | 1      | TQ2              | C1    |                     | 18A                | PAR EPL BIT 04 P   |        |
| 14943   |        | XA131     | 39  |        |           |     |      |             |      |       |          | TP060A | 02     | TP060A   | 00   | 1      | TQ2              | C4    |                     | 19B                | PAR NPL BIT 06 P   |        |
| 14825   |        | XA131     | 40  |        | XA131     | 70  |      |             | 16B  | 9     |          | TPR010 | 04     | TP041A   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 14838   |        | XA131     | 41  |        | XA131     | 19  |      |             | 16B  | 9     |          | TPR040 | 02     | TP071A   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 14853   |        | XA131     | 42  |        | XA131     | 56  |      |             | 16B  | 9     |          | TPR200 | 03     | TP041A   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 14852   |        | XA131     | 43  |        | XA131     | 42  |      |             | 16B  | 9     |          | TPR200 | 02     | TP071A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 01847   |        | XA131     | 44  |        |           |     |      |             |      |       |          | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 14950   |        | XA131     | 45  |        | XA129     | 36  |      |             | 16B  | 9     |          | TP071A | 01     | TP071A   | 00   | 1      | TQ2              | D3    |                     | 24B                | PAR EPL BIT 07 P   |        |
| 14949   |        | XA131     | 46  |        |           |     |      |             |      |       |          | TP070A | 02     | TP070A   | 00   | 1      | TQ2              | D2    |                     | 21A                | PAR NPL BIT 07 P   |        |
| 14757   |        | XA131     | 47  |        | XA131     | 23  |      |             | 16B  | 9     |          | TPN010 | 02     | TP080A   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 14778   |        | XA131     | 48  |        | XA131     | 18  |      |             | 16B  | 9     |          | TPN040 | 02     | TP070A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 14801   |        | XA131     | 49  |        | XA135     | 26  |      |             | 16B  | 9     |          | TPN300 | 04     | TP080A   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 14791   |        | XA131     | 50  |        | XA131     | 36  |      |             | 16B  | 9     |          | TPN200 | 01     | TP070A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| CONNECTOR XA131 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |          |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA131  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 56

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE |             |      | SIGNAL | SEQ NO | EQUATION | TERM   | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|------|-------------|------|--------|--------|----------|--------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE |        |        |          |        |      |                  |       |                     |                    |                    |        |
| 14953         |        | XA131     | 51                              |        |           |     |      |             |      |        | TP080A | 02       | TP080A | 00   | 1                | TQ2   | 04                  | 27B                | PAR NPL BIT 08 P   |        |
| 14944         |        | XA131     | 52                              |        | XA129     | 37  |      |             | 16B  | 9      | TP061A | 01       | TP061A | 00   | 1                | TQ2   | 01                  | 24A                | PAR EPL BIT 06 P   |        |
| 14827         |        | XA131     | 53                              |        | XA131     | 31  |      |             | 16B  | 9      | TPR020 | 01       | TP091A | 01   | 1                | TQ2   | E3                  | 28B                |                    |        |
| 14833         |        | XA131     | 54                              |        | XA131     | 24  |      |             | 16B  | 9      | TPR030 | 02       | TP061A | 01   | 1                | TQ2   | D1                  | 25A                |                    |        |
| 14858         |        | XA131     | 55                              |        | XA131     | 68  |      |             | 16B  | 9      | TPR300 | 01       | TP091A | 01   | 2                | TQ2   | E3                  | 29B                |                    |        |
| 14854         |        | XA131     | 56                              |        | XA324     | 14  |      |             | 16B  | 9      | TPR200 | 04       | TP061A | 01   | 2                | TQ2   | D1                  | 26A                |                    |        |
| 14958         |        | XA131     | 57                              |        | XA128     | 56  |      |             | 16B  | 9      | TP091A | 01       | TP091A | 00   | 1                | TQ2   | E3                  | 30B                | PAR EPL BIT 09 P   |        |
| 01848         |        | XA131     | 58                              |        |           |     |      |             |      |        | GND    | 01       |        |      |                  | TQ2   |                     | 27A                |                    |        |
| 14770         |        | XA131     | 59                              |        | XA131     | 35  |      |             | 16B  | 9      | TPN030 | 01       | TP100A | 01   | 1                | TQ2   | E4                  | 31B                |                    |        |
| 14957         |        | XA131     | 60                              |        |           |     |      |             |      |        | TP090A | 02       | TP090A | 00   | 1                | TQ2   | E2                  | 28A                | PAR NPL BIT 09 P   |        |
| 14800         |        | XA131     | 61                              |        | XA131     | 49  |      |             | 16B  | 9      | TPN300 | 03       | TP100A | 01   | 2                | TQ2   | E4                  | 32B                |                    |        |
| 14799         |        | XA131     | 62                              |        | XA131     | 61  |      |             | 16B  | 9      | TPN300 | 02       | TP090A | 01   | 1                | TQ2   | E2                  | 29A                |                    |        |
| 14961         |        | XA131     | 63                              |        |           |     |      |             |      |        | TP100A | 02       | TP100A | 00   | 1                | TQ2   | E4                  | 33B                | PAR NPL BIT 10 P   |        |
| 14763         |        | XA131     | 64                              |        | XA131     | 34  |      |             | 16B  | 9      | TPN020 | 01       | TP090A | 01   | 2                | TQ2   | E2                  | 30A                |                    |        |
| 14837         |        | XA131     | 65                              |        | XA131     | 41  |      |             | 16B  | 9      | TPR040 | 01       | TP111A | 01   | 1                | TQ2   | F3                  | 34B                |                    |        |
| 14954         |        | XA131     | 66                              |        | XA128     | 31  |      |             | 16B  | 9      | TP081A | 01       | TP081A | 00   | 1                | TQ2   | E1                  | 31A                | PAR EPL BIT 08 P   |        |
| 01849         |        | XA131     | 67                              |        |           |     |      |             |      |        | GND    | 01       |        |      |                  | TQ2   |                     | 40A                |                    |        |
| 14859         |        | XA131     | 68                              |        | XA131     | 74  |      |             | 16B  | 9      | TPR300 | 02       | TP081A | 01   | 1                | TQ2   | E1                  | 32A                |                    |        |
| 14966         |        | XA131     | 69                              |        | XA129     | 50  |      |             | 16B  | 9      | TP111A | 01       | TP111A | 00   | 1                | TQ2   | F3                  | 35A                | PAR EPL BIT 11 P   |        |
| 14826         |        | XA131     | 70                              |        |           |     |      |             |      |        | TPR010 | 05       | TP081A | 01   | 2                | TQ2   | E1                  | 33A                |                    |        |
| 14798         |        | XA131     | 71                              |        | XA131     | 62  |      |             | 16B  | 9      | TPN300 | 01       | TP110A | 01   | 1                | TQ2   | F2                  | 36A                |                    |        |
| 14965         |        | XA131     | 72                              |        |           |     |      |             |      |        | TP110A | 02       | TP110A | 00   | 1                | TQ2   | F2                  | 34A                | PAR NPL BIT 11 P   |        |
| 14777         |        | XA131     | 73                              |        | XA131     | 48  |      |             | 16B  | 9      | TPN040 | 01       | TP110A | 01   | 2                | TQ2   | F2                  | 36B                |                    |        |
| 14860         |        | XA131     | 74                              |        | XA131     | 77  |      |             | 16B  | 9      | TPR300 | 03       | TP111A | 01   | 2                | TQ2   | F3                  | 35B                |                    |        |
| 14962         |        | XA131     | 75                              |        | XA129     | 52  |      |             | 16B  | 9      | TP101A | 01       | TP101A | 00   | 1                | TQ2   | F1                  | 37B                | PAR EPL BIT 10 P   |        |
| 14756         |        | XA131     | 76                              |        | XA131     | 47  |      |             | 16B  | 9      | TPN010 | 01       | TP120A | 01   | 1                | TQ2   | F4                  | 37A                |                    |        |
| 14861         |        | XA131     | 77                              |        | XA324     | 19  |      |             | 16B  | 9      | TPR300 | 04       | TP101A | 01   | 1                | TQ2   | F1                  | 38B                |                    |        |
| 14809         |        | XA131     | 78                              |        |           |     |      |             |      |        | TPN400 | 05       | TP120A | 01   | 2                | TQ2   | F4                  | 38A                |                    |        |
| 14832         |        | XA131     | 79                              |        | XA131     | 54  |      |             | 16B  | 9      | TPR030 | 01       | TP101A | 01   | 2                | TQ2   | F1                  | 39B                |                    |        |
| 14969         |        | XA131     | 80                              |        |           |     |      |             |      |        | TP120A | 02       | TP120A | 00   | 1                | TQ2   | F4                  | 39A                | PAR NPL BIT 12 P   |        |
| 14973         |        | XA132     | 01                              |        |           |     |      |             |      |        | TP130A | 02       | TP130A | 00   | 1                | TQ2   | A2                  | 02B                | PAR NPL BIT 13 P   |        |
| 01850         |        | XA132     | 02                              |        |           |     |      |             |      |        | GND    | 01       |        |      |                  | TQ2   |                     | 01A                |                    |        |
| 14865         |        | XA132     | 03                              |        | XA132     | 10  |      |             | 16B  | 9      | TPR400 | 01       | TP131A | 01   | 1                | TQ2   | A3                  | 02A                |                    |        |
| 14766         |        | XA132     | 04                              |        | XA135     | 24  |      |             | 16B  | 9      | TPN020 | 04       | TP130A | 01   | 1                | TQ2   | A2                  | 04A                |                    |        |
| 14805         |        | XA132     | 05                              |        | XA132     | 11  |      |             | 16B  | 9      | TPN400 | 01       | TP130A | 01   | 2                | TQ2   | A2                  | 03B                |                    |        |
| 14970         |        | XA132     | 06                              |        | XA129     | 68  |      |             | 16B  | 9      | TP121A | 01       | TP121A | 00   | 1                | TQ2   | A1                  | 05A                | PAR EPL BIT 12 P   |        |
| 14830         |        | XA132     | 07                              |        | XA135     | 30  |      |             | 16B  | 9      | TPR020 | 04       | TP131A | 01   | 2                | TQ2   | A3                  | 03A                |                    |        |
| 14822         |        | XA132     | 08                              |        | XA135     | 34  |      |             | 16B  | 9      | TPR010 | 01       | TP121A | 01   | 1                | TQ2   | A1                  | 06A                |                    |        |
| 14974         |        | XA132     | 09                              |        | XA129     | 64  |      |             | 16B  | 9      | TP131A | 01       | TP131A | 00   | 1                | TQ2   | A3                  | 04B                | PAR EPL BIT 13 P   |        |
| 14866         |        | XA132     | 10                              |        | XA132     | 17  |      |             | 16B  | 9      | TPR400 | 02       | TP121A | 01   | 2                | TQ2   | A1                  | 07A                |                    |        |
| 14806         |        | XA132     | 11                              |        | XA132     | 20  |      |             | 16B  | 9      | TPN400 | 02       | TP140A | 01   | 1                | TQ2   | A4                  | 05B                |                    |        |
| 00334         |        | XA132     | 12                              |        |           |     |      |             |      |        | +5V    | 01       |        |      |                  | TQ2   |                     |                    |                    |        |
| 14773         |        | XA132     | 13                              |        | XA135     | 25  |      |             | 16B  | 9      | TPN030 | 04       | TP140A | 01   | 2                | TQ2   | A4                  | 06B                |                    |        |
| 14980         |        | XA132     | 14                              |        | XA129     | 73  |      |             | 16B  | 9      | TP150A | 01       | TP150A | 00   | 1                | TQ2   | B2                  | 09A                | PAR NPL BIT 15 P   |        |
| 14977         |        | XA132     | 15                              |        |           |     |      |             |      |        | TP140A | 02       | TP140A | 00   | 1                | TQ2   | A4                  | 07B                | PAR NPL BIT 14 P   |        |
| 01851         |        | XA132     | 16                              |        |           |     |      |             |      |        | GND    | 01       |        |      |                  | TQ2   |                     | 01B                |                    |        |
| 14867         |        | XA132     | 17                              |        | XA132     | 26  |      |             | 16B  | 9      | TPR400 | 03       | TP151A | 01   | 1                | TQ2   | B3                  | 08B                |                    |        |
| 14780         |        | XA132     | 18                              |        | XA135     | 18  |      |             | 16B  | 9      | TPN040 | 04       | TP150A | 01   | 1                | TQ2   | B2                  | 10A                |                    |        |
| CONNECTOR     |        | XA132     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |             |      |        |        |          |        |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

UNIT ASSEMBLY NO. 149019  
 FILE IDENT T39BIUX2

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| RECORD NUMBER | FROM   |           |                                 |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |                 |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|-----------------|
|               | PREFIX | CONNECTOR | PIN                             | DR TO | PREFIX | CONNECTOR | PIN | DR TO | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |        |                  |       |                     |                    |                    |                  | SPEC INST. MISC |
| 14840         |        | XA132     | 19                              |       |        | XA135     | 42  |       |             |      |       |       | 16B 9  | TPR040 | 04       | TP151A | 01     | 2                | TQ2   | B3                  |                    | 09B                |                  |                 |
| 14807         |        | XA132     | 20                              |       |        | XA135     | 40  |       |             |      |       |       | 16B 9  | TPN400 | 03       | TP150A | 01     | 2                | TQ2   | B2                  |                    | 11A                |                  |                 |
| 14983         |        | XA132     | 21                              |       |        |           |     |       |             |      |       |       |        | TP151A | 02       | TP151A | 00     | 1                | TQ2   | B3                  |                    | 10B                | PAR EPL BIT 15 P |                 |
| 14978         |        | XA132     | 22                              |       |        | XA129     | 77  |       |             |      |       |       | 16B 9  | TP141A | 01       | TP141A | 00     | 1                | TQ2   | B1                  |                    | 12A                | PAR EPL BIT 14 P |                 |
| 15056         |        | XA132     | 23                              |       |        | XA135     | 13  |       |             |      |       |       | 16B 9  | TQBY10 | 08       | TQ000A | 01     | 1                | TQ2   | B4                  |                    | 11B                |                  |                 |
| 14835         |        | XA132     | 24                              |       |        | XA135     | 31  |       |             |      |       |       | 16B 9  | TPR030 | 04       | TP141A | 01     | 1                | TQ2   | B1                  |                    | 13A                |                  |                 |
| 14987         |        | XA132     | 25                              |       |        | XA132     | 47  |       |             |      |       |       | 16B 9  | TQB000 | 02       | TQ000A | 01     | 2                | TQ2   | B4                  |                    | 12B                |                  |                 |
| 14868         |        | XA132     | 26                              |       |        | XA324     | 26  |       |             |      |       |       | 16B 9  | TPR400 | 04       | TP141A | 01     | 2                | TQ2   | B1                  |                    | 14A                |                  |                 |
| 15136         |        | XA132     | 27                              |       |        |           |     |       |             |      |       |       |        | TQ000A | 02       | TQ000A | 00     | 1                | TQ2   | B4                  |                    | 13B                | POST BIT 00 IN Q |                 |
| 00335         |        | XA132     | 28                              |       |        |           |     |       |             |      |       |       |        | +5V    | 01       |        |        |                  | TQ2   |                     |                    |                    |                  |                 |
| 15055         |        | XA132     | 29                              |       |        | XA132     | 23  |       |             |      |       |       | 16B 9  | TQBY10 | 07       | TQ030A | 01     | 1                | TQ2   | C3                  |                    | 14B                |                  |                 |
| 15140         |        | XA132     | 30                              |       |        |           |     |       |             |      |       |       |        | TQ020A | 02       | TQ020A | 00     | 1                | TQ2   | C2                  |                    | 15A                | POST BIT 02 IN Q |                 |
| 15009         |        | XA132     | 31                              |       |        | XA132     | 53  |       |             |      |       |       | 16B 9  | TQB030 | 03       | TQ030A | 01     | 2                | TQ2   | C3                  |                    | 15B                |                  |                 |
| 01852         |        | XA132     | 32                              |       |        |           |     |       |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     |                    | 20B                |                  |                 |
| 15141         |        | XA132     | 33                              |       |        | XA129     | 04  |       |             |      |       |       | 16B 9  | TQ030A | 01       | TQ030A | 00     | 1                | TQ2   | C3                  |                    | 16B                | POST BIT 03 IN Q |                 |
| 15002         |        | XA132     | 34                              |       |        | XA132     | 64  |       |             |      |       |       | 16B 9  | TQB020 | 03       | TQ020A | 01     | 1                | TQ2   | C2                  |                    | 16A                |                  |                 |
| 15054         |        | XA132     | 35                              |       |        | XA132     | 29  |       |             |      |       |       | 16B 9  | TQBY10 | 06       | TQ040A | 01     | 1                | TQ2   | C4                  |                    | 17B                |                  |                 |
| 15053         |        | XA132     | 36                              |       |        | XA132     | 35  |       |             |      |       |       | 16B 9  | TQBY10 | 05       | TQ020A | 01     | 2                | TQ2   | C2                  |                    | 17A                |                  |                 |
| 15016         |        | XA132     | 37                              |       |        | XA132     | 59  |       |             |      |       |       | 16B 9  | TQB040 | 03       | TQ040A | 01     | 2                | TQ2   | C4                  |                    | 18B                |                  |                 |
| 15137         |        | XA132     | 38                              |       |        | XA128     | 19  |       |             |      |       |       | 16B 9  | TQ010A | 01       | TQ010A | 00     | 1                | TQ2   | C1                  |                    | 18A                | POST BIT 01 IN Q |                 |
| 15144         |        | XA132     | 39                              |       |        |           |     |       |             |      |       |       |        | TQ040A | 02       | TQ040A | 00     | 1                | TQ2   | C4                  |                    | 19B                | POST BIT 04 IN Q |                 |
| 14995         |        | XA132     | 40                              |       |        | XA132     | 70  |       |             |      |       |       | 16B 9  | TQB010 | 03       | TQ010A | 01     | 1                | TQ2   | C1                  |                    | 19A                |                  |                 |
| 15051         |        | XA132     | 41                              |       |        | XA132     | 42  |       |             |      |       |       | 16B 9  | TQBY10 | 03       | TQ070A | 01     | 1                | TQ2   | D3                  |                    | 22B                |                  |                 |
| 15052         |        | XA132     | 42                              |       |        | XA132     | 36  |       |             |      |       |       | 16B 9  | TQBY10 | 04       | TQ010A | 01     | 2                | TQ2   | C1                  |                    | 20A                |                  |                 |
| 15037         |        | XA132     | 43                              |       |        | XA132     | 65  |       |             |      |       |       | 16B 9  | TQB070 | 03       | TQ070A | 01     | 2                | TQ2   | D3                  |                    | 23B                |                  |                 |
| 01853         |        | XA132     | 44                              |       |        |           |     |       |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     |                    | 21B                |                  |                 |
| 15149         |        | XA132     | 45                              |       |        | XA129     | 31  |       |             |      |       |       | 16B 9  | TQ070A | 01       | TQ070A | 00     | 1                | TQ2   | D3                  |                    | 24B                | POST BIT 07 IN Q |                 |
| 15148         |        | XA132     | 46                              |       |        |           |     |       |             |      |       |       |        | TQ060A | 02       | TQ060A | 00     | 1                | TQ2   | D2                  |                    | 21A                | POST BIT 06 IN Q |                 |
| 14988         |        | XA132     | 47                              |       |        | XA132     | 76  |       |             |      |       |       | 16B 9  | TQB000 | 03       | TQ080A | 01     | 1                | TQ2   | D4                  |                    | 25B                |                  |                 |
| 15030         |        | XA132     | 48                              |       |        | XA132     | 73  |       |             |      |       |       | 16B 9  | TQB060 | 03       | TQ060A | 01     | 1                | TQ2   | D2                  |                    | 22A                |                  |                 |
| 15067         |        | XA132     | 49                              |       |        | XA135     | 08  |       |             |      |       |       | 16B 9  | TQBY20 | 08       | TQ080A | 01     | 2                | TQ2   | D4                  |                    | 26B                |                  |                 |
| 15050         |        | XA132     | 50                              |       |        | XA132     | 41  |       |             |      |       |       | 16B 9  | TQBY10 | 02       | TQ060A | 01     | 2                | TQ2   | D2                  |                    | 23A                |                  |                 |
| 15152         |        | XA132     | 51                              |       |        |           |     |       |             |      |       |       |        | TQ080A | 02       | TQ080A | 00     | 1                | TQ2   | D4                  |                    | 27B                | POST BIT 08 IN Q |                 |
| 15145         |        | XA132     | 52                              |       |        | XA129     | 18  |       |             |      |       |       | 16B 9  | TQ050A | 01       | TQ050A | 00     | 1                | TQ2   | D1                  |                    | 24A                | POST BIT 05 IN Q |                 |
| 15010         |        | XA132     | 53                              |       |        | XA213     | 70  |       |             |      |       |       | 16B 9  | TQB030 | 04       | TQ110A | 01     | 1                | TQ2   | E3                  |                    | 28B                |                  |                 |
| 15023         |        | XA132     | 54                              |       |        | XA132     | 77  |       |             |      |       |       | 16B 9  | TQB050 | 03       | TQ050A | 01     | 1                | TQ2   | D1                  |                    | 25A                |                  |                 |
| 15066         |        | XA132     | 55                              |       |        | XA132     | 49  |       |             |      |       |       | 16B 9  | TQBY20 | 07       | TQ110A | 01     | 2                | TQ2   | E3                  |                    | 29B                |                  |                 |
| 15049         |        | XA132     | 56                              |       |        | XA132     | 50  |       |             |      |       |       | 16B 9  | TQBY10 | 01       | TQ050A | 01     | 2                | TQ2   | D1                  |                    | 26A                |                  |                 |
| 15158         |        | XA132     | 57                              |       |        |           |     |       |             |      |       |       |        | TQ110A | 02       | TQ110A | 00     | 1                | TQ2   | E3                  |                    | 30B                | POST BIT 11 IN Q |                 |
| 01854         |        | XA132     | 58                              |       |        |           |     |       |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     |                    | 27A                |                  |                 |
| 15017         |        | XA132     | 59                              |       |        | XA213     | 72  |       |             |      |       |       | 16B 9  | TQB040 | 04       | TQ120A | 01     | 1                | TQ2   | E4                  |                    | 31B                |                  |                 |
| 15155         |        | XA132     | 60                              |       |        | XA129     | 54  |       |             |      |       |       | 16B 9  | TQ100A | 01       | TQ100A | 00     | 1                | TQ2   | E2                  |                    | 28A                | POST BIT 10 IN Q |                 |
| 15065         |        | XA132     | 61                              |       |        | XA132     | 55  |       |             |      |       |       | 16B 9  | TQBY20 | 06       | TQ120A | 01     | 2                | TQ2   | E4                  |                    | 32B                |                  |                 |
| 15064         |        | XA132     | 62                              |       |        | XA132     | 61  |       |             |      |       |       | 16B 9  | TQBY20 | 05       | TQ100A | 01     | 1                | TQ2   | E2                  |                    | 29A                |                  |                 |
| 15159         |        | XA132     | 63                              |       |        | XA129     | 70  |       |             |      |       |       | 16B 9  | TQ120A | 01       | TQ120A | 00     | 1                | TQ2   | E4                  |                    | 33B                | POST BIT 12 IN Q |                 |
| 15003         |        | XA132     | 64                              |       |        | XA213     | 71  |       |             |      |       |       | 16B 9  | TQB020 | 04       | TQ100A | 01     | 2                | TQ2   | E2                  |                    | 30A                |                  |                 |
| 15038         |        | XA132     | 65                              |       |        | XA310     | 77  |       |             |      |       |       | 16B 9  | TQB070 | 04       | TQ150A | 01     | 1                | TQ2   | F3                  |                    | 34B                |                  |                 |
| 15154         |        | XA132     | 66                              |       |        |           |     |       |             |      |       |       |        | TQ090A | 02       | TQ090A | 00     | 1                | TQ2   | E1                  |                    | 31A                | POST BIT 09 IN Q |                 |
| 01855         |        | XA132     | 67                              |       |        |           |     |       |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     |                    | 40A                |                  |                 |
| 15063         |        | XA132     | 68                              |       |        | XA132     | 62  |       |             |      |       |       | 16B 9  | TQBY20 | 04       | TQ090A | 01     | 1                | TQ2   | E1                  |                    | 32A                |                  |                 |
| CONNECTOR     |        | XA132     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |       |       |        |        |          |        |        |                  |       |                     |                    |                    |                  |                 |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA132  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 58

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SFC INST | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|----------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |          |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15166   |        | XA132     | 69  |        |           |     |             |      |       |       |          | TQ150A | 02     | TQ150A   | 00   | 1      | TQ2              | F3    |                     | 35A                |                    |        |
| 14996   |        | XA132     | 70  |        | XA213     | 80  |             |      | 16B   | 9     |          | TQ8D10 | 04     | TQ090A   | 01   | 2      | TQ2              | E1    |                     | 33A                | POST BIT 15 IN Q   |        |
| 15061   |        | XA132     | 71  |        | XA132     | 74  |             |      | 16B   | 9     |          | TQ8Y20 | 02     | TQ140A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 15163   |        | XA132     | 72  |        | XA129     | 75  |             |      | 16B   | 9     |          | TQ140A | 01     | TQ140A   | 00   | 1      | TQ2              | F2    |                     | 34A                | POST BIT 14 IN Q   |        |
| 15031   |        | XA132     | 73  |        | XA213     | 77  |             |      | 16B   | 9     |          | TQ8D60 | 04     | TQ140A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 15062   |        | XA132     | 74  |        | XA132     | 68  |             |      | 16B   | 9     |          | TQ8Y20 | 03     | TQ150A   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 15162   |        | XA132     | 75  |        |           |     |             |      |       |       |          | TQ130A | 02     | TQ130A   | 00   | 1      | TQ2              | F1    |                     | 37B                | POST BIT 13 IN Q   |        |
| 14989   |        | XA132     | 76  |        | XA213     | 68  |             |      | 16B   | 9     |          | TQ8D00 | 04     | TQ160A   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 15024   |        | XA132     | 77  |        | XA213     | 78  |             |      | 16B   | 9     |          | TQ8050 | 04     | TQ130A   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 15071   |        | XA132     | 78  |        | XA133     | 26  |             |      | 16B   | 9     |          | TQ8Y30 | 01     | TQ160A   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 15060   |        | XA132     | 79  |        | XA132     | 71  |             |      | 16B   | 9     |          | TQ8Y20 | 01     | TQ130A   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 15167   |        | XA132     | 80  |        | XA124     | 10  |             |      | 16B   | 9     |          | TQ160A | 01     | TQ160A   | 00   | 1      | TQ2              | F4    |                     | 39A                | POST BIT 16 IN Q   |        |
| 15171   |        | XA133     | 01  |        | XA124     | 03  |             |      | 16B   | 9     |          | TQ180A | 01     | TQ180A   | 00   | 1      | TQ2              | A2    |                     | 02B                | POST BIT 18 IN Q   |        |
| 01856   |        | XA133     | 02  |        |           |     |             |      |       |       |          | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 15078   |        | XA133     | 03  |        | XA135     | 03  |             |      | 16B   | 9     |          | TQ8Y30 | 08     | TQ190A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 15000   |        | XA133     | 04  |        | XA133     | 36  |             |      | 16B   | 9     |          | TQ8D20 | 01     | TQ180A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 15077   |        | XA133     | 05  |        | XA133     | 03  |             |      | 16B   | 9     |          | TQ8Y30 | 07     | TQ180A   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 15170   |        | XA133     | 06  |        |           |     |             |      |       |       |          | TQ170A | 02     | TQ170A   | 00   | 1      | TQ2              | A1    |                     | 05A                | POST BIT 17 IN Q   |        |
| 15007   |        | XA133     | 07  |        | XA133     | 29  |             |      | 16B   | 9     |          | TQ8D30 | 01     | TQ190A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 14993   |        | XA133     | 08  |        | XA133     | 42  |             |      | 16B   | 9     |          | TQ8D10 | 01     | TQ170A   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 15174   |        | XA133     | 09  |        |           |     |             |      |       |       |          | TQ190A | 02     | TQ190A   | 00   | 1      | TQ2              | A3    |                     | 04B                | POST BIT 19 IN Q   |        |
| 15076   |        | XA133     | 10  |        | XA133     | 05  |             |      | 16B   | 9     |          | TQ8Y30 | 06     | TQ170A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 15075   |        | XA133     | 11  |        | XA133     | 10  |             |      | 16B   | 9     |          | TQ8Y30 | 05     | TQ200A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00336   |        | XA133     | 12  |        |           |     |             |      |       |       |          | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 15014   |        | XA133     | 13  |        | XA133     | 35  |             |      | 16B   | 9     |          | TQ8D40 | 01     | TQ200A   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 15180   |        | XA133     | 14  |        |           |     |             |      |       |       |          | TQ220A | 02     | TQ220A   | 00   | 1      | TQ2              | B2    |                     | 09A                | POST BIT 22 IN Q   |        |
| 15176   |        | XA133     | 15  |        |           |     |             |      |       |       |          | TQ200A | 02     | TQ200A   | 00   | 1      | TQ2              | A4    |                     | 07B                | POST BIT 20 IN Q   |        |
| 01857   |        | XA133     | 16  |        |           |     |             |      |       |       |          | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 15074   |        | XA133     | 17  |        | XA133     | 11  |             |      | 16B   | 9     |          | TQ8Y30 | 04     | TQ230A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 15028   |        | XA133     | 18  |        | XA133     | 50  |             |      | 16B   | 9     |          | TQ8D60 | 01     | TQ220A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 15035   |        | XA133     | 19  |        | XA133     | 41  |             |      | 16B   | 9     |          | TQ8D70 | 01     | TQ230A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 15073   |        | XA133     | 20  |        | XA133     | 17  |             |      | 16B   | 9     |          | TQ8Y30 | 03     | TQ220A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 15181   |        | XA133     | 21  |        | XA124     | 20  |             |      | 16B   | 9     |          | TQ230A | 01     | TQ230A   | 00   | 1      | TQ2              | B3    |                     | 10B                | POST BIT 23 IN Q   |        |
| 15177   |        | XA133     | 22  |        | XA108     | 34  |             |      | 16B   | 9     |          | TQ210A | 01     | TQ210A   | 00   | 1      | TQ2              | B1    |                     | 12A                | POST BIT 21 IN Q   |        |
| 14986   |        | XA133     | 23  |        | XA132     | 25  |             |      | 16B   | 9     |          | TQ8D00 | 01     | TQ240A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 15021   |        | XA133     | 24  |        | XA133     | 54  |             |      | 16B   | 9     |          | TQ8D50 | 01     | TQ210A   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 15089   |        | XA133     | 25  |        | XA135     | 01  |             |      | 16B   | 9     |          | TQ8Y40 | 08     | TQ240A   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 15072   |        | XA133     | 26  |        | XA133     | 20  |             |      | 16B   | 9     |          | TQ8Y30 | 02     | TQ210A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 15184   |        | XA133     | 27  |        |           |     |             |      |       |       |          | TQ240A | 02     | TQ240A   | 00   | 1      | TQ2              | B4    |                     | 13B                | POST BIT 24 IN Q   |        |
| 00337   |        | XA133     | 28  |        |           |     |             |      |       |       |          | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 15008   |        | XA133     | 29  |        | XA132     | 31  |             |      | 16B   | 9     |          | TQ8D30 | 02     | TQ270A   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 15188   |        | XA133     | 30  |        |           |     |             |      |       |       |          | TQ260A | 02     | TQ260A   | 00   | 1      | TQ2              | C2    |                     | 15A                | POST BIT 26 IN Q   |        |
| 15088   |        | XA133     | 31  |        | XA133     | 25  |             |      | 16B   | 9     |          | TQ8Y40 | 07     | TQ270A   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 01858   |        | XA133     | 32  |        |           |     |             |      |       |       |          | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 15189   |        | XA133     | 33  |        | XA124     | 36  |             |      | 16B   | 9     |          | TQ270A | 01     | TQ270A   | 00   | 1      | TQ2              | C3    |                     | 16B                | POST BIT 27 IN Q   |        |
| 15087   |        | XA133     | 34  |        | XA133     | 31  |             |      | 16B   | 9     |          | TQ8Y40 | 06     | TQ260A   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 15015   |        | XA133     | 35  |        | XA132     | 37  |             |      | 16B   | 9     |          | TQ8D40 | 02     | TQ280A   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 15001   |        | XA133     | 36  |        | XA132     | 34  |             |      | 16B   | 9     |          | TQ8D20 | 02     | TQ260A   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| CONNECTOR (XA133) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |          |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA133  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 59

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FAC | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|-----|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | INFO | PREFIX | CONNECTOR | PIN | INFO | MULTI-GROUP | CODE | COLOR | IDENT |        |        |          |      |     |                  |       |                     |                    |                    |        |
| 15085         |        | XA133     | 37                              |      | XA133  | 40        |     |      |             | 16B  | 9     |       | TQBY40 | 04     | TQ280A   | 01   | 2   | TQ2              | C4    |                     | 18B                |                    |        |
| 15185         |        | XA133     | 38                              |      | XA124  | 23        |     |      |             | 16B  | 9     |       | TQ250A | 01     | TQ250A   | 00   | 1   | TQ2              | C1    |                     | 18A                | POST BIT 25 IN Q   |        |
| 15192         |        | XA133     | 39                              |      |        |           |     |      |             |      |       |       | TQ280A | 02     | TQ280A   | 00   | 1   | TQ2              | C4    |                     | 19B                | POST BIT 28 IN Q   |        |
| 15086         |        | XA133     | 40                              |      | XA133  | 34        |     |      |             | 16B  | 9     |       | TQBY40 | 05     | TQ250A   | 01   | 1   | TQ2              | C1    |                     | 19A                |                    |        |
| 15036         |        | XA133     | 41                              |      | XA132  | 43        |     |      |             | 16B  | 9     |       | TQB070 | 02     | TQ310A   | 01   | 1   | TQ2              | D3    |                     | 22B                |                    |        |
| 14994         |        | XA133     | 42                              |      | XA132  | 40        |     |      |             | 16B  | 9     |       | TQB010 | 02     | TQ250A   | 01   | 2   | TQ2              | C1    |                     | 20A                |                    |        |
| 15084         |        | XA133     | 43                              |      | XA133  | 37        |     |      |             | 16B  | 9     |       | TQBY40 | 03     | TQ310A   | 01   | 2   | TQ2              | D3    |                     | 23B                |                    |        |
| 01859         |        | XA133     | 44                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |     | TQ2              |       |                     | 21B                |                    |        |
| 15197         |        | XA133     | 45                              |      | XA109  | 43        |     |      |             | 16B  | 9     |       | TQ310A | 01     | TQ310A   | 00   | 1   | TQ2              | D3    |                     | 24B                | POST BIT 31 IN Q   |        |
| 15196         |        | XA133     | 46                              |      |        |           |     |      |             |      |       |       | TQ300A | 02     | TQ300A   | 00   | 1   | TQ2              | D2    |                     | 21A                | POST BIT 30 IN Q   |        |
| 14824         |        | XA133     | 47                              |      | XA131  | 40        |     |      |             | 16B  | 9     |       | TPR010 | 03     | TPR01A   | 01   | 1   | TQ2              | D4    |                     | 25B                |                    |        |
| 15083         |        | XA133     | 48                              |      | XA133  | 43        |     |      |             | 16B  | 9     |       | TQBY40 | 02     | TQ300A   | 01   | 1   | TQ2              | D2    |                     | 22A                |                    |        |
| 14847         |        | XA133     | 49                              |      | XA324  | 18        |     |      |             | 16B  | 9     |       | TPR100 | 04     | TPR01A   | 01   | 2   | TQ2              | D4    |                     | 26B                |                    |        |
| 15029         |        | XA133     | 50                              |      | XA132  | 48        |     |      |             | 16B  | 9     |       | TQB060 | 02     | TQ300A   | 01   | 2   | TQ2              | D2    |                     | 23A                |                    |        |
| 14821         |        | XA133     | 51                              |      |        |           |     |      |             |      |       |       | TPR01A | 02     | TPR01A   | 00   | 1   | TQ2              | D4    |                     | 27B                | PAR EPL BIT 00 P   |        |
| 15193         |        | XA133     | 52                              |      | XA124  | 35        |     |      |             | 16B  | 9     |       | TQ290A | 01     | TQ290A   | 00   | 1   | TQ2              | D1    |                     | 24A                | POST BIT 29 IN Q   |        |
| 14874         |        | XA133     | 53                              |      |        |           |     |      |             |      |       |       | TPSCAA | 05     | TD2780   | 01   | 1   | TQ2              | E3    |                     | 28B                |                    |        |
| 15022         |        | XA133     | 54                              |      | XA132  | 54        |     |      |             | 16B  | 9     |       | TQB050 | 02     | TQ290A   | 01   | 1   | TQ2              | D1    |                     | 25A                |                    |        |
| 15125         |        | XA133     | 55                              |      | XA133  | 59        |     |      |             | 16B  | 9     |       | TQSC2A | 02     | TD2780   | 01   | 2   | TQ2              | E3    |                     | 29B                |                    |        |
| 15082         |        | XA133     | 56                              |      | XA133  | 48        |     |      |             | 16B  | 9     |       | TQBY40 | 01     | TQ290A   | 01   | 2   | TQ2              | D1    |                     | 26A                |                    |        |
| 12283         |        | XA133     | 57                              |      | XA135  | 55        |     |      |             | 16B  | 9     |       | TD2780 | 01     | TD2780   | 00   | 1   | TQ2              | E3    |                     | 30B                | Q REG/PAR REG CO   |        |
| 01860         |        | XA133     | 58                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |     | TQ2              |       |                     | 27A                |                    |        |
| 15126         |        | XA133     | 59                              |      | XA133  | 62        |     |      |             | 16B  | 9     |       | TQSC2A | 03     | TPQRS0   | 01   | 1   | TQ2              | E4    |                     | 31B                |                    |        |
| 12248         |        | XA133     | 60                              |      | XA135  | 59        |     |      |             | 16B  | 9     |       | TD2680 | 01     | TD2680   | 00   | 1   | TQ2              | E2    |                     | 28A                | Q REG/PAR REG CO   |        |
| 14873         |        | XA133     | 61                              |      | XA133  | 53        |     |      |             | 16B  | 9     |       | TPSCAA | 04     | TPQRS0   | 01   | 2   | TQ2              | E4    |                     | 32B                |                    |        |
| 15127         |        | XA133     | 62                              |      | XA245  | 65        |     |      |             | 16B  | 9     |       | TQSC2A | 04     | TD2680   | 01   | 1   | TQ2              | E2    |                     | 29A                |                    |        |
| 14819         |        | XA133     | 63                              |      |        |           |     |      |             |      |       |       | TPQRS0 | 02     | TPQRS0   | 00   | 1   | TQ2              | E4    |                     | 33B                | Q REG/PAR REG CO   |        |
| 14872         |        | XA133     | 64                              |      | XA133  | 61        |     |      |             | 16B  | 9     |       | TPSCAA | 03     | TD2680   | 01   | 2   | TQ2              | E2    |                     | 30A                |                    |        |
| 09009         |        | XA133     | 65                              |      | XA139  | 31        |     |      |             | 16B  | 9     |       | TBLZA0 | 02     | TPSTFA   | 01   | 1   | TQ2              | F3    |                     | 34B                |                    |        |
| 07847         |        | XA133     | 66                              |      | XA113  | 36        |     |      |             | 16B  | 9     |       | TI126A | 01     | TI126A   | 00   | 1   | TQ2              | E1    |                     | 31A                |                    |        |
| 01861         |        | XA133     | 67                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |     | TQ2              |       |                     | 40A                |                    |        |
| 05117         |        | XA133     | 68                              |      | XA138  | 51        |     |      |             | 16B  | 9     |       | TI1260 | 01     | TI126A   | 01   | 1   | TQ2              | E1    |                     | 32A                |                    |        |
| 14878         |        | XA133     | 69                              |      |        |           |     |      |             |      |       |       | TPSTFA | 02     | TPSTFA   | 00   | 1   | TQ2              | F3    |                     | 35A                | POST F BIT IF BL   |        |
| 05142         |        | XA133     | 70                              |      | XA140  | 77        |     |      |             | 16B  | 9     |       | SPI011 | 11     |          | 01   | 2   | TQ2              | E1    |                     | 33A                |                    |        |
| 13418         |        | XA133     | 71                              |      | XA333  | 52        |     |      |             | 16B  | 9     |       | TIPEBQ | 05     | TPSTEA   | 01   | 1   | TQ2              | F2    |                     | 36A                |                    |        |
| 14875         |        | XA133     | 72                              |      | XA128  | 36        |     |      |             | 16B  | 9     |       | TPSTEA | 01     | TPSTEA   | 00   | 1   | TQ2              | F2    |                     | 34A                | POST E BIT IF IN   |        |
| 16698         |        | XA133     | 73                              |      | XA133  | 76        |     |      |             | 16B  | 9     |       | TTWPC0 | 01     | TPSTEA   | 01   | 2   | TQ2              | F2    |                     | 36B                |                    |        |
| 16700         |        | XA133     | 74                              |      | XA135  | 43        |     |      |             | 16B  | 9     |       | TTWPC0 | 03     | TPSTFA   | 01   | 2   | TQ2              | F3    |                     | 35B                |                    |        |
| 16581         |        | XA133     | 75                              |      | XA213  | 05        |     |      |             | 16B  | 9     |       | TTESAA | 04     | TTESAA   | 00   | 1   | TQ2              | F1    |                     | 37B                | TE REGISTER SHIF   |        |
| 16699         |        | XA133     | 76                              |      | XA133  | 74        |     |      |             | 16B  | 9     |       | TTWPC0 | 02     | TPSTIA   | 01   | 1   | TQ2              | F4    |                     | 37A                |                    |        |
| 17020         |        | XA133     | 77                              |      | XA137  | 06        |     |      |             | 16B  | 9     |       | TXC780 | 02     | TTESAA   | 01   | 1   | TQ2              | F1    |                     | 38B                |                    |        |
| 13341         |        | XA133     | 78                              |      | XA122  | 59        |     |      |             | 16B  | 9     |       | TINDBQ | 05     | TPSTIA   | 01   | 2   | TQ2              | F4    |                     | 38A                |                    |        |
| 13555         |        | XA133     | 79                              |      | XA116  | 75        |     |      |             | 16B  | 9     |       | TI12A0 | 02     | TTESAA   | 01   | 2   | TQ2              | F1    |                     | 39B                |                    |        |
| 14879         |        | XA133     | 80                              |      | XA128  | 26        |     |      |             | 16B  | 9     |       | TPSTIA | 01     | TPSTIA   | 00   | 1   | TQ2              | F4    |                     | 39A                | POST I BIT IF IN   |        |
| 10405         |        | XA134     | 01                              |      | XA134  | 24        |     |      |             | 16B  | 9     |       | TC208Q | 01     | TQBY2A   | 01   | 1   | TT3              | A2    |                     | 02B                |                    |        |
| 01862         |        | XA134     | 02                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |     | TT3              |       |                     | 01B                |                    |        |
| 10391         |        | XA134     | 03                              |      |        |           |     |      |             |      |       |       | TC198P | 08     | TQBY2A   | 01   | 2   | TT3              | A2    |                     | 02A                |                    |        |
| 15047         |        | XA134     | 04                              |      | XA135  | 11        |     |      |             | 16B  | 9     |       | TQBY1A | 01     | TQBY1A   | 00   | 1   | TT3              | A1    |                     | 04A                | Q REG BYTE 1.CON   |        |
| CONNECTOR     |        | XA134     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |        |        |          |      |     |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA134  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 60

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACT | CKT ON CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS (LAND OR) | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|---------|--------|----------|------|------|------------------|-------|---------------------|-----------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |      |                  |       |                     |                       |                    |        |
| 15042   |        | XA134     | 05  |        | XA134     | 09  |             | 16B  | 9     |       | TQSPA0  | 01     | TQBY2A   | 01   | 3    | TT3              | A2    |                     | 03B                   |                    |        |
| 10400   |        | XA134     | 06  |        | XA134     | 13  |             | 16B  | 9     |       | TC20BP  | 01     | TQBY1A   | 01   | 1    | TT3              | A1    |                     | 05A                   |                    |        |
| 15058   |        | XA134     | 07  |        | XA135     | 06  |             | 16B  | 9     |       | TQBY2A  | 01     | TQBY2A   | 00   | 1    | TT3              | A2    |                     | 03A                   | Q REG BYTE 2.CON   |        |
| 10390   |        | XA134     | 08  |        | XA134     | 03  |             | 16B  | 9     |       | TC19BP  | 07     | TQBY1A   | 01   | 2    | TT3              | A1    |                     | 06A                   |                    |        |
| 15043   |        | XA134     | 09  |        | XA134     | 10  |             | 16B  | 9     |       | TQSPA0  | 02     | TQBY3A   | 01   | 1    | TT3              | A3    |                     | 04B                   |                    |        |
| 15044   |        | XA134     | 10  |        | XA135     | 07  |             | 16B  | 9     |       | TQSPA0  | 03     | TQBY1A   | 01   | 3    | TT3              | A1    |                     | 07A                   |                    |        |
| 10392   |        | XA134     | 11  |        | XA134     | 26  |             | 16B  | 9     |       | TC19BQ  | 01     | TQBY3A   | 01   | 2    | TT3              | A3    |                     | 05B                   |                    |        |
| 00338   |        | XA134     | 12  |        |           |     |             |      |       |       | +5V     | 01     |          |      |      | TT3              |       |                     |                       |                    |        |
| 10401   |        | XA134     | 13  |        | XA322     | 62  |             | 16B  | 9     |       | TC20BP  | 02     | TQBY3A   | 01   | 3    | TT3              | A3    |                     | 06B                   |                    |        |
| 13697   |        | XA134     | 14  |        | XA230     | 05  |             | 16B  | 9     |       | TKAACB  | 02     | TQBPAA   | 01   | 1    | TT3              | B2    |                     | 09A                   |                    |        |
| 15069   |        | XA134     | 15  |        | XA135     | 04  |             | 16B  | 9     |       | TQBY3A  | 01     | TQBY3A   | 00   | 1    | TT3              | A3    |                     | 07B                   | Q REG BYTE 3.CON   |        |
| 01863   |        | XA134     | 16  |        |           |     |             |      |       |       | GND     | 01     |          |      |      | TT3              |       |                     | 21B                   |                    |        |
| 09679   |        | XA134     | 17  |        | XA136     | 54  |             | 16B  | 9     |       | TC0160  | 01     | TQBPAA   | 01   | 2    | TT3              | B2    |                     | 08B                   |                    |        |
| 16026   |        | XA134     | 18  |        |           |     |             |      |       |       | TS10BQ  | 04     | TQBPAA   | 01   | 3    | TT3              | B2    |                     | 10A                   |                    |        |
| 15040   |        | XA134     | 19  |        | XA135     | 09  |             | 16B  | 9     |       | TQBPAA  | 01     | TQBPAA   | 00   | 1    | TT3              | B2    |                     | 09B                   | Q REG BIT POST C   |        |
| 15080   |        | XA134     | 20  |        | XA135     | 05  |             | 16B  | 9     |       | TQBY4A  | 01     | TQBY4A   | 00   | 1    | TT3              | B1    |                     | 11A                   | Q REG BYTE 4.CON   |        |
| 10109   |        | XA134     | 21  |        | XA134     | 30  |             | 16B  | 9     |       | TC05BP  | 01     | TPN10A   | 01   | 1    | TT3              | B3    |                     | 10B                   |                    |        |
| 15046   |        | XA134     | 22  |        |           |     |             |      |       |       | TQSPA0  | 05     | TQBY4A   | 01   | 1    | TT3              | B1    |                     | 12A                   |                    |        |
| 14753   |        | XA134     | 23  |        |           |     |             |      |       |       | TPNC10  | 05     | TPN10A   | 01   | 2    | TT3              | B3    |                     | 11B                   |                    |        |
| 10406   |        | XA134     | 24  |        | XA214     | 70  |             | 16B  | 9     |       | TC20BQ  | 02     | TQBY4A   | 01   | 2    | TT3              | B1    |                     | 13A                   |                    |        |
| 10094   |        | XA134     | 25  |        | XA134     | 40  |             | 16B  | 9     |       | TC04BP  | 01     | TPN10A   | 01   | 3    | TT3              | B3    |                     | 12B                   |                    |        |
| 10393   |        | XA134     | 26  |        | XA321     | 43  |             | 16B  | 9     |       | TC19BQ  | 02     | TQBY4A   | 01   | 3    | TT3              | B1    |                     | 14A                   |                    |        |
| 14782   |        | XA134     | 27  |        | XA135     | 17  |             | 16B  | 9     |       | TPN10A  | 01     | TPN10A   | 00   | 1    | TT3              | B3    |                     | 13B                   | TC04*.05*.NPL CO   |        |
| 00339   |        | XA134     | 28  |        |           |     |             |      |       |       | +5V     | 01     |          |      |      | TT3              |       |                     |                       |                    |        |
| 14752   |        | XA134     | 29  |        | XA134     | 23  |             | 16B  | 9     |       | TPNC10  | 04     | TPN30A   | 01   | 1    | TT3              | C2    |                     | 14B                   |                    |        |
| 10110   |        | XA134     | 30  |        | XA332     | 29  |             | 16B  | 9     |       | TC05BP  | 02     | TPN30A   | 01   | 2    | TT3              | C2    |                     | 15A                   |                    |        |
| 14796   |        | XA134     | 31  |        | XA135     | 27  |             | 16B  | 9     |       | TPN30A  | 01     | TPN30A   | 00   | 1    | TT3              | C2    |                     | 15B                   | TC04*.05*.NPL CON  |        |
| 01864   |        | XA134     | 32  |        |           |     |             |      |       |       | GND     | 01     |          |      |      | TT3              |       |                     | 27A                   |                    |        |
| 14751   |        | XA134     | 33  |        | XA134     | 29  |             | 16B  | 9     |       | TPNC10  | 03     | TPN40A   | 01   | 1    | TT3              | C3    |                     | 16B                   |                    |        |
| 10102   |        | XA134     | 34  |        | XA134     | 37  |             | 16B  | 9     |       | TC04BQ  | 01     | TPN30A   | 01   | 3    | TT3              | C2    |                     | 16A                   |                    |        |
| 10116   |        | XA134     | 35  |        | XA227     | 71  |             | 16B  | 9     |       | TC05BQ  | 02     | TPN40A   | 01   | 2    | TT3              | C3    |                     | 17B                   |                    |        |
| 14789   |        | XA134     | 36  |        | XA135     | 21  |             | 16B  | 9     |       | TPN20A  | 01     | TPN20A   | 00   | 1    | TT3              | C1    |                     | 17A                   | TC04*.05.NPL CON   |        |
| 10103   |        | XA134     | 37  |        | XA224     | 41  |             | 16B  | 9     |       | TC04BQ  | 02     | TPN40A   | 01   | 3    | TT3              | C3    |                     | 18B                   |                    |        |
| 10115   |        | XA134     | 38  |        | XA134     | 35  |             | 16B  | 9     |       | TC05BQ  | 01     | TPN20A   | 01   | 1    | TT3              | C1    |                     | 18A                   |                    |        |
| 14803   |        | XA134     | 39  |        | XA135     | 38  |             | 16B  | 9     |       | TPN40A  | 01     | TPN40A   | 00   | 1    | TT3              | C3    |                     | 19B                   | TC04*.05.NPL CONT  |        |
| 10095   |        | XA134     | 40  |        | XA332     | 23  |             | 16B  | 9     |       | TC04BP  | 02     | TPN20A   | 01   | 2    | TT3              | C1    |                     | 19A                   |                    |        |
| 16343   |        | XA134     | 41  |        | XA134     | 45  |             | 16B  | 9     |       | TS22BP  | 01     | TCPDB0   | 01   | 1    | TT3              | D2    |                     | 22B                   |                    |        |
| 14749   |        | XA134     | 42  |        | XA135     | 37  |             | 16B  | 9     |       | TPNC10  | 01     | TPN20A   | 01   | 3    | TT3              | C1    |                     | 20A                   |                    |        |
| 09837   |        | XA134     | 43  |        |           |     |             |      |       |       | TCPDB0  | 11     | TCPDB0   | 00   | 1    | TT3              | D2    |                     | 23B                   | DATA BUSS TO TD    |        |
| 01865   |        | XA134     | 44  |        |           |     |             |      |       |       | GND     | 01     |          |      |      | TT3              |       |                     | 40A                   |                    |        |
| 16344   |        | XA134     | 45  |        | XA134     | 52  |             | 16B  | 9     |       | TS22BP  | 02     | TCPDC0   | 01   | 1    | TT3              | D3    |                     | 24B                   |                    |        |
| 09861   |        | XA134     | 46  |        | XA134     | 49  |             | 16B  | 9     |       | TCPD3A  | 01     | TCPDB0   | 01   | 2    | TT3              | D2    |                     | 21A                   |                    |        |
| 09860   |        | XA134     | 47  |        |           |     |             |      |       |       | TCPD2A  | 05     | TCPDC0   | 01   | 2    | TT3              | D3    |                     | 25B                   |                    |        |
| 09859   |        | XA134     | 48  |        | XA134     | 47  |             | 16B  | 9     |       | TCPD2A  | 04     | TCPDB0   | 01   | 3    | TT3              | D2    |                     | 22A                   |                    |        |
| 09862   |        | XA134     | 49  |        | XA134     | 56  |             | 16B  | 9     |       | TCPD3A  | 02     | TCPDC0   | 01   | 3    | TT3              | D3    |                     | 26B                   |                    |        |
| 09816   |        | XA134     | 50  |        | XA123     | 08  |             | 16B  | 9     |       | TCPDA0  | 01     | TCPDA0   | 00   | 1    | TT3              | D1    |                     | 23A                   | DATA BUS TO TD R   |        |
| 09838   |        | XA134     | 51  |        | XA123     | 37  |             | 16B  | 9     |       | TCPDC0  | 01     | TCPDC0   | 00   | 1    | TT3              | D3    |                     | 27B                   | DATA BUSS TO TD    |        |
| 16345   |        | XA134     | 52  |        | XA134     | 66  |             | 16B  | 9     |       | TS22BP  | 03     | TCPDA0   | 01   | 1    | TT3              | D1    |                     | 24A                   |                    |        |
| 09139   |        | XA134     | 53  |        | XA141     | 72  |             | 16B  | 9     |       | TBR SUA | 05     | TD307A   | 01   | 1    | TT3              | E2    |                     | 28B                   |                    |        |
| 09858   |        | XA134     | 54  |        | XA134     | 48  |             | 16B  | 9     |       | TCPD2A  | 03     | TCPDA0   | 01   | 2    | TT3              | D1    |                     | 25A                   |                    |        |
| CONNECTOR (XA134) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |         |        |          |      |      |                  |       |                     |                       |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA134  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 61

| RECORD NUMBER                                     | FROM   |           |     | Z | TO     |           |     | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD GR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|---|--------|-----------|-----|-------------|------|-------|-------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |   | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |       |                     |                    |                    |        |
| 12388   |        | XA134     | 55  |   | XA216  | 43        |     | 168         | 9    |       |       | TD307A   | 01     | TD307A   | 00   | 1      | TT3              | E2    | 29B                 | TER WORD SEL SET   |                    |        |
| 09863   |        | XA134     | 56  |   | XA134  | 68        |     | 168         | 9    |       |       | TCPD3A   | 03     | TCPDA0   | 01   | 3      | TT3              | D1    | 24A                 |                    |                    |        |
| 15124   |        | XA134     | 57  |   | XA133  | 55        |     | 168         | 9    |       |       | TQSC2A   | 01     | TD3080   | 01   | 1      | TT3              | E3    | 30B                 |                    |                    |        |
| 01866   |        | XA134     | 58  |   |        |           |     |             |      |       |       | GND      | 01     |          |      |        |                  |       | 40B                 |                    |                    |        |
| 11088   |        | XA134     | 59  |   | XA325  | 59        |     | 168         | 9    |       |       | TDP03A   | 01     | TD3080   | 01   | 2      | TT3              | E3    | 31B                 |                    |                    |        |
| 15846   |        | XA134     | 60  |   |        |           |     |             |      |       |       | TS03BP   | 05     | TD307A   | 01   | 2      | TT3              | E2    | 28A                 |                    |                    |        |
| 11092   |        | XA134     | 61  |   | XA325  | 76        |     | 168         | 9    |       |       | TDP11A   | 01     | TD3080   | 01   | 3      | TT3              | E3    | 32B                 |                    |                    |        |
| 13873   |        | XA134     | 62  |   |        |           |     |             |      |       |       | TKTSA0   | 10     | TD307A   | 01   | 3      | TT3              | E2    | 29A                 |                    |                    |        |
| 12392   |        | XA134     | 63  |   | XA135  | 74        |     | 168         | 9    |       |       | TD3080   | 01     | TD3080   | 00   | 1      | TT3              | E3    | 33B                 | PAR REG SEL TC03   |                    |        |
| 09852   |        | XA134     | 64  |   |        |           |     |             |      |       |       | TCPDD0   | 04     | TCPDD0   | 00   | 1      | TT3              | E1    | 30A                 |                    | DATA BUSS TO TD    |        |
| 09182   |        | XA134     | 65  |   | XA137  | 26        |     | 168         | 9    |       |       | TBST10   | 04     | TCMW4A   | 01   | 1      | TT3              | F2    | 34B                 |                    |                    |        |
| 16346   |        | XA134     | 66  |   | XA236  | 61        |     | 168         | 9    |       |       | TS22BP   | 04     | TCPDD0   | 01   | 1      | TT3              | E1    | 31A                 |                    |                    |        |
| 01867   |        | XA134     | 67  |   |        |           |     |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 09864   |        | XA134     | 68  |   | XA246  | 80        |     | 168         | 9    |       |       | TCPD3A   | 04     | TCPDD0   | 01   | 2      | TT3              | E1    | 32A                 |                    |                    |        |
| 13881   |        | XA134     | 69  |   | XA247  | 26        |     | 168         | 9    |       |       | TKTSA0   | 03     | TD0250   | 01   | 1      | TT3              | F3    | 35A                 |                    |                    |        |
| 09857   |        | XA134     | 70  |   | XA134  | 54        |     | 168         | 9    |       |       | TCPD2A   | 02     | TCPDD0   | 01   | 3      | TT3              | E1    | 33A                 |                    |                    |        |
| 08712   |        | XA134     | 71  |   | XA137  | 56        |     | 168         | 9    |       |       | TBB2A0   | 02     | TCMW4A   | 01   | 2      | TT3              | F2    | 36A                 |                    |                    |        |
| 15856   |        | XA134     | 72  |   |        |           |     |             |      |       |       | TS03C0   | 06     | TCMW4A   | 01   | 3      | TT3              | F2    | 34A                 |                    |                    |        |
| 09768   |        | XA134     | 73  |   | XA135  | 65        |     | 168         | 9    |       |       | TCMW2A   | 01     | TCMW2A   | 00   | 1      | TT3              | F1    | 36B                 | STATE 3.BYTE 1. B  |                    |        |
| 09773   |        | XA134     | 74  |   | XA135  | 69        |     | 168         | 9    |       |       | TCMW4A   | 01     | TCMW4A   | 00   | 1      | TT3              | F2    | 35B                 | STATE 3.BYTE 2. B  |                    |        |
| 08702   |        | XA134     | 75  |   | XA137  | 33        |     | 168         | 9    |       |       | TBB1A0   | 02     | TCMW2A   | 01   | 1      | TT3              | F1    | 37B                 |                    |                    |        |
| 14813   |        | XA134     | 76  |   | XA334  | 05        |     | 168         | 9    |       |       | TPQRS A  | 04     | TD0250   | 01   | 2      | TT3              | F3    | 37A                 |                    |                    |        |
| 15855   |        | XA134     | 77  |   | XA134  | 72        |     | 168         | 9    |       |       | TS03C0   | 05     | TCMW2A   | 01   | 2      | TT3              | F1    | 38B                 |                    |                    |        |
| 11409   |        | XA134     | 78  |   |        |           |     |             |      |       |       | TD027A   | 02     | TD0250   | 01   | 3      | TT3              | F3    | 38A                 |                    |                    |        |
| 09181   |        | XA134     | 79  |   | XA134  | 65        |     | 168         | 9    |       |       | TBST10   | 03     | TCMW2A   | 01   | 3      | TT3              | F1    | 39B                 |                    |                    |        |
| 11404   |        | XA134     | 80  |   | XA135  | 76        |     | 168         | 9    |       |       | TD0250   | 01     | TD0250   | 00   | 1      | TT3              | F3    | 39A                 | MEMORY ENABLE CO   |                    |        |
| 15090   |        | XA135     | 01  |   |        |           |     |             |      |       |       | TQBY40   | 09     | TQBY40   | 00   | 1      | THI              | A4    | 02B                 | Q REG BYTE 4.CON   |                    |        |
| 01868   |        | XA135     | 02  |   |        |           |     |             |      |       |       | GND      | 01     |          |      |        |                  |       | 01A                 |                    |                    |        |
| 15079   |        | XA135     | 03  |   |        |           |     |             |      |       |       | TQBY30   | 09     | TQBY30   | 00   | 1      | THI              | A3    | 03A                 | Q REG BYTE 3.CON   |                    |        |
| 15070   |        | XA135     | 04  |   |        |           |     |             |      |       |       | TQBY3A   | 02     | TQBY30   | 01   | 1      | THI              | A3    | 02A                 |                    |                    |        |
| 15081   |        | XA135     | 05  |   |        |           |     |             |      |       |       | TQBY4A   | 02     | TQBY40   | 01   | 1      | THI              | A4    | 03B                 |                    |                    |        |
| 15059   |        | XA135     | 06  |   |        |           |     |             |      |       |       | TQBY2A   | 02     | TQBY20   | 01   | 1      | THI              | A2    | 05A                 |                    |                    |        |
| 15045   |        | XA135     | 07  |   | XA134  | 22        |     | 168         | 9    |       |       | TQBP A0  | 04     | TQBP A0  | 00   | 1      | THI              | A5    | 04B                 | Q REQ BIT POST C   |                    |        |
| 15068   |        | XA135     | 08  |   |        |           |     |             |      |       |       | TQBY20   | 09     | TQBY20   | 00   | 1      | THI              | A2    | 04A                 | Q REG BYTE 2.CON   |                    |        |
| 15041   |        | XA135     | 09  |   |        |           |     |             |      |       |       | TQBP A A | 02     | TQBP A0  | 01   | 1      | THI              | A5    | 05B                 |                    |                    |        |
| 14760   |        | XA135     | 10  |   |        |           |     |             |      |       |       | TPN010   | 05     | TPN010   | 00   | 1      | THI              | A6    | 06B                 | TC06*.07*-0        |                    |        |
| 15048   |        | XA135     | 11  |   |        |           |     |             |      |       |       | TQBY1A   | 02     | TQBY10   | 01   | 1      | THI              | A1    | 07A                 |                    |                    |        |
| 00340   |        | XA135     | 12  |   |        |           |     |             |      |       |       | +5V      | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 15057   |        | XA135     | 13  |   |        |           |     |             |      |       |       | TQBY10   | 09     | TQBY10   | 00   | 1      | THI              | A1    | 06A                 | Q REG BYTE 1.CON   |                    |        |
| 14788   |        | XA135     | 14  |   |        |           |     |             |      |       |       | TPN100   | 05     | TPN100   | 00   | 1      | THI              | B4    | 08B                 | TC04*.05*.NPL CO   |                    |        |
| 14755   |        | XA135     | 15  |   |        |           |     |             |      |       |       | TPN01A   | 02     | TPN010   | 01   | 1      | THI              | A6    | 07B                 |                    |                    |        |
| 01869   |        | XA135     | 16  |   |        |           |     |             |      |       |       | GND      | 01     |          |      |        |                  |       | 20B                 |                    |                    |        |
| 14783   |        | XA135     | 17  |   |        |           |     |             |      |       |       | TPN10A   | 02     | TPN100   | 01   | 1      | THI              | B4    | 09B                 |                    |                    |        |
| 14781   |        | XA135     | 18  |   |        |           |     |             |      |       |       | TPN040   | 05     | TPN040   | 00   | 1      | THI              | B3    | 09A                 | TC06.07-0          |                    |        |
| 14795   |        | XA135     | 19  |   |        |           |     |             |      |       |       | TPN200   | 05     | TPN200   | 00   | 1      | THI              | B5    | 10B                 | TC04*.05*.NPL CON  |                    |        |
| 14776   |        | XA135     | 20  |   |        |           |     |             |      |       |       | TPN04A   | 02     | TPN040   | 01   | 1      | THI              | B3    | 10A                 |                    |                    |        |
| 14790   |        | XA135     | 21  |   |        |           |     |             |      |       |       | TPN20A   | 02     | TPN200   | 01   | 1      | THI              | B5    | 11B                 |                    |                    |        |
| 14762   |        | XA135     | 22  |   |        |           |     |             |      |       |       | TPN02A   | 02     | TPN020   | 01   | 1      | THI              | B1    | 14A                 |                    |                    |        |
| CONNECTOR (XA135) CONTINUED ON THE NEXT PAGE **** |        |           |     |   |        |           |     |             |      |       |       |          |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA135  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 62

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FALTS | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|--------|-------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |       |                  |       |                     |                    |                    |        |
| 14769   |        | XA135     | 23  |        |           |     |             |      |       |       |        | TPN03A | 02       | TPN030 | 01    | 1                | THI   | B2                  | 12A                |                    |        |
| 14767   |        | XA135     | 24  |        |           |     |             |      |       |       |        | TPN020 | 05       | TPN020 | 00    | 1                | THI   | B1                  | 13A                | TC06*.07-0         |        |
| 14774   |        | XA135     | 25  |        |           |     |             |      |       |       |        | TPN030 | 05       | TPN030 | 00    | 1                | THI   | B2                  | 11A                | TC06*.07*-0        |        |
| 14802   |        | XA135     | 26  |        |           |     |             |      |       |       |        | TPN300 | 05       | TPN300 | 00    | 1                | THI   | B6                  | 12B                | TC04.05*.NPL CON   |        |
| 14797   |        | XA135     | 27  |        |           |     |             |      |       |       |        | TPN30A | 02       | TPN300 | 01    | 1                | THI   | B6                  | 13B                |                    |        |
| 00341   |        | XA135     | 28  |        |           |     |             |      |       |       |        | +5V    | 01       |        |       |                  | THI   |                     |                    |                    |        |
| 08231   |        | XA135     | 29  |        | XA320     | 22  |             |      |       |       |        | TACX1A | 01       | TPR020 | 01    | 1                | THI   | C4                  | 19B                |                    |        |
| 14831   |        | XA135     | 30  |        |           |     |             |      |       |       |        | TPR020 | 05       | TPR020 | 00    | 1                | THI   | C4                  | 14B                | TC14*.15-0         |        |
| 14836   |        | XA135     | 31  |        |           |     |             |      |       |       |        | TPR030 | 05       | TPR030 | 00    | 1                | THI   | C5                  | 16B                | TC14.15*-0         |        |
| 01870   |        | XA135     | 32  |        |           |     |             |      |       |       |        | GND    | 01       |        |       |                  | THI   |                     | 21B                |                    |        |
| 08241   |        | XA135     | 33  |        | XA320     | 14  |             |      |       |       |        | TACX2A | 01       | TPR030 | 01    | 1                | THI   | C5                  | 17B                |                    |        |
| 14823   |        | XA135     | 34  |        | XA133     | 47  |             |      |       |       |        | TPR010 | 02       | TPR010 | 00    | 1                | THI   | C3                  | 15A                | TC14*.15*-0        |        |
| 14768   |        | XA135     | 35  |        |           |     |             |      |       |       |        | TPNC1A | 02       | TPNC10 | 01    | 1                | THI   | C2                  | 18A                |                    |        |
| 08221   |        | XA135     | 36  |        | XA320     | 15  |             |      |       |       |        | TACX0A | 01       | TPR010 | 01    | 1                | THI   | C3                  | 16A                |                    |        |
| 14750   |        | XA135     | 37  |        | XA134     | 33  |             |      |       |       |        | TPNC10 | 02       | TPNC10 | 05    | 1                | THI   | C2                  | 17A                | NPL CONTROL.PE*    |        |
| 14804   |        | XA135     | 38  |        |           |     |             |      |       |       |        | TPN40A | 02       | TPN400 | 01    | 1                | THI   | C1                  | 20A                |                    |        |
| 08254   |        | XA135     | 39  |        |           |     |             |      |       |       |        | TACX3A | 04       | TPR040 | 01    | 1                | THI   | C6                  | 19B                |                    |        |
| 14808   |        | XA135     | 40  |        | XA131     | 78  |             |      |       |       |        | TPN400 | 04       | TPN400 | 00    | 1                | THI   | C1                  | 19A                | TC04.05.NPL CONT   |        |
| 16621   |        | XA135     | 41  |        | XA137     | 04  |             |      |       |       |        | TTESPA | 03       | TTESPO | 01    | 1                | THI   | D4                  | 23B                |                    |        |
| 14841   |        | XA135     | 42  |        |           |     |             |      |       |       |        | TPR040 | 05       | TPR040 | 00    | 1                | THI   | C6                  | 18B                | TC14.15-0          |        |
| 16701   |        | XA135     | 43  |        |           |     |             |      |       |       |        | TTWPC0 | 04       | TTWPC0 | 00    | 1                | THI   | D5                  | 24B                | TER. WORD POST C   |        |
| 01871   |        | XA135     | 44  |        |           |     |             |      |       |       |        | GND    | 01       |        |       |                  | THI   |                     | 27A                |                    |        |
| 16696   |        | XA135     | 45  |        | XA128     | 49  |             |      |       |       |        | TTWPCA | 02       | TTWPC0 | 01    | 1                | THI   | D5                  | 25B                |                    |        |
| 16624   |        | XA135     | 46  |        | XA305     | 04  |             |      |       |       |        | TTESPO | 02       | TTESPO | 00    | 1                | THI   | D4                  | 22B                | SHIFT PULSE-0      |        |
| 16578   |        | XA135     | 47  |        | XA135     | 51  |             |      |       |       |        | TTESA0 | 01       | TTESA0 | 01    | 1                | THI   | D2                  | 24A                |                    |        |
| 14060   |        | XA135     | 48  |        |           |     |             |      |       |       |        | TMC4AA | 02       | TMC4AA | 00    | 1                | THI   | D3                  | 21A                | SET INPUT FOR ME   |        |
| 16591   |        | XA135     | 49  |        |           |     |             |      |       |       |        | TTESA0 | 09       | TTESA0 | 00    | 1                | THI   | D2                  | 23A                | TE REGISTER SHIF   |        |
| 14056   |        | XA135     | 50  |        | XA141     | 69  |             |      |       |       |        | TMC3A0 | 01       | TMC4AA | 01    | 1                | THI   | D3                  | 22A                |                    |        |
| 16579   |        | XA135     | 51  |        | XA135     | 64  |             |      |       |       |        | TTESA4 | 02       | TTESB0 | 01    | 1                | THI   | D6                  | 27B                |                    |        |
| 05147   |        | XA135     | 52  |        | XA136     | 50  |             |      |       |       |        | SPI011 | 16       |        | 01    | 1                | THI   | D1                  | 26A                |                    |        |
| 16600   |        | XA135     | 53  |        |           |     |             |      |       |       |        | TTESB0 | 09       | TTESB0 | 00    | 1                | THI   | D6                  | 26B                | TE REG SHIFT CON   |        |
| 07848   |        | XA135     | 54  |        |           |     |             |      |       |       |        | SPO    | 01       |        | 00    | 1                | THI   | D1                  | 25A                |                    |        |
| 12284   |        | XA135     | 55  |        |           |     |             |      |       |       |        | TD2780 | 02       | TD278A | 01    | 1                | THI   | E4                  | 29B                |                    |        |
| 12281   |        | XA135     | 56  |        | XA215     | 22  |             |      |       |       |        | TD278A | 01       | TD278A | 00    | 1                | THI   | E4                  | 28B                | Q REG/PAR REG CO   |        |
| 12246   |        | XA135     | 57  |        | XA216     | 22  |             |      |       |       |        | TD268A | 01       | TD268A | 00    | 1                | THI   | E5                  | 30B                | Q REG/PAR REG CO   |        |
| 01872   |        | XA135     | 58  |        |           |     |             |      |       |       |        | GND    | 01       |        |       |                  | THI   |                     | 40A                |                    |        |
| 12249   |        | XA135     | 59  |        |           |     |             |      |       |       |        | TD2680 | 02       | TD268A | 01    | 1                | THI   | E5                  | 31B                |                    |        |
| 12318   |        | XA135     | 60  |        | XA213     | 22  |             |      |       |       |        | TD2880 | 01       | TD2880 | 00    | 1                | THI   | E3                  | 28A                | PAR REG SELECTIO   |        |
| 14818   |        | XA135     | 61  |        | XA133     | 63  |             |      |       |       |        | TPQRS0 | 01       | TPQRSA | 01    | 1                | THI   | E2                  | 31A                |                    |        |
| 14871   |        | XA135     | 62  |        | XA133     | 64  |             |      |       |       |        | TPSCAA | 02       | TD2880 | 01    | 1                | THI   | E3                  | 29A                |                    |        |
| 14812   |        | XA135     | 63  |        | XA134     | 76  |             |      |       |       |        | TPQRSA | 03       | TPQRSA | 00    | 1                | THI   | E2                  | 30A                | Q REG/PAR REG CO   |        |
| 16580   |        | XA135     | 64  |        | XA133     | 75  |             |      |       |       |        | TTESAA | 03       | TTESCO | 01    | 1                | THI   | E1                  | 33A                |                    |        |
| 09769   |        | XA135     | 65  |        |           |     |             |      |       |       |        | TCMW2A | 02       | TCMW20 | 01    | 1                | THI   | E6                  | 33B                |                    |        |
| 16609   |        | XA135     | 66  |        |           |     |             |      |       |       |        | TTESCO | 09       | TTESCO | 00    | 1                | THI   | E1                  | 32A                | TE REG SHIFT CON   |        |
| 01873   |        | XA135     | 67  |        |           |     |             |      |       |       |        | GND    | 01       |        |       |                  | THI   |                     |                    |                    |        |
| 09771   |        | XA135     | 68  |        | XA127     | 36  |             |      |       |       |        | TCMW20 | 02       | TCMW20 | 00    | 1                | THI   | E6                  | 32B                | S03.BYTE 2.BOOT5   |        |
| 09774   |        | XA135     | 69  |        |           |     |             |      |       |       |        | TCMW4A | 02       | TCMW40 | 01    | 1                | THI   | F3                  | 35B                |                    |        |
| 09776   |        | XA135     | 70  |        | XA127     | 23  |             |      |       |       |        | TCMW40 | 02       | TCMW40 | 00    | 1                | THI   | F3                  | 34B                | S03.BYTE 3.BOOT5   |        |
| 09766   |        | XA135     | 71  |        | XA343     | 69  |             |      |       |       |        | TCMP40 | 02       | TCMP40 | 00    | 1                | THI   | F2                  | 36B                | ALL BYTES COMPAR   |        |
| 12391   |        | XA135     | 72  |        |           |     |             |      |       |       |        | TD308A | 02       | TD308A | 00    | 1                | THI   | F4                  | 34A                | PAR REG SEL TC10   |        |
| CONNECTOR (XA135) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |        |       |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA135  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 63

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |    |    |     | SPEC. INST. MISC. | SIGNAL | SEQ NO. | EQUATION | TERM.  | FACTOR | CKT ORS. CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OP. | SIGNAL DESCRIPTION | ECO NO.          |  |
|---|--------|-----------|-----|--------|-----------|-----|------|----|----|-----|-------------------|--------|---------|----------|--------|--------|--------------------|-------|---------------------|---------------------|--------------------|------------------|--|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | DI   | DI | DI | DI  |                   |        |         |          |        |        |                    |       |                     |                     |                    |                  |  |
| 09763   |        | XA135     | 73  |        | XA108     | 10  |      |    |    | 16B | 9                 |        | TCMP4A  | 03       | TCMP40 | 01     | 1                  | THI   | F2                  |                     | 37B                |                  |  |
| 12393   |        | XA135     | 74  |        |           |     |      |    |    |     |                   |        | TD3080  | 02       | TD308A | 01     | 1                  | THI   | F4                  |                     | 35A                |                  |  |
| 16845   |        | XA135     | 75  |        | XA138     | 06  |      |    |    | 16B | 9                 |        | TWDXA0  | 10       | TWDXAA | 01     | 1                  | THI   | F6                  |                     | 39A                |                  |  |
| 11405   |        | XA135     | 76  |        |           |     |      |    |    |     |                   |        | TD0250  | 02       | TD025A | 01     | 1                  | THI   | F5                  |                     | 37A                |                  |  |
| 16835   |        | XA135     | 77  |        |           |     |      |    |    |     |                   |        | TWDXAA  | 05       | TWDXAA | 00     | 1                  | THI   | F6                  |                     | 38A                | WORD XFER CONTR  |  |
| 11402   |        | XA135     | 78  |        | XA228     | 24  |      |    |    | 16B | 9                 |        | TD025A  | 01       | TD025A | 00     | 1                  | THI   | F5                  |                     | 36A                | SET INPUT FOR ME |  |
| 09756   |        | XA135     | 79  |        | XA136     | 76  |      |    |    | 16B | 9                 |        | TCMP2A  | 01       | TCMP20 | 01     | 1                  | THI   | F1                  |                     | 39B                |                  |  |
| 09760   |        | XA135     | 80  |        |           |     |      |    |    |     |                   |        | TCMP20  | 02       | TCMP20 | 00     | 1                  | THI   | F1                  |                     | 38B                | ALL BYTES COMPAR |  |
| 08863   |        | XA136     | 01  |        | XA136     | 19  |      |    |    | 16B | 9                 |        | TBK12A  | 01       | TBK200 | 01     | 1                  | TD4   | A2                  |                     | 02B                |                  |  |
| 01874   |        | XA136     | 02  |        |           |     |      |    |    |     |                   |        | GND     | 01       |        |        |                    | TD4   |                     |                     | 01A                |                  |  |
| 00836   |        | XA136     | 03  |        |           |     |      |    |    |     |                   |        | DNW     | 01       |        |        |                    | TD4   |                     |                     |                    |                  |  |
| 08886   |        | XA136     | 04  |        | XA136     | 18  |      |    |    | 16B | 9                 |        | TBK13A  | 01       | TBK200 | 01     | 2                  | TD4   | A2                  |                     | 04A                |                  |  |
| 08844   |        | XA136     | 05  |        | XA137     | 20  |      |    |    | 16B | 9                 |        | TBD24A  | 01       | TBK200 | 01     | 3                  | TD4   | A2                  |                     | 03B                |                  |  |
| 14662   |        | XA136     | 06  |        | XA138     | 52  |      |    |    | 16B | 9                 |        | TPEM1A  | 01       | TPNC1A | 01     | 1                  | TD4   | A1                  |                     | 05A                |                  |  |
| 05155   |        | XA136     | 07  |        | XA140     | 05  |      |    |    | 16B | 9                 |        | SPI011  | 24       | TBK200 | 01     | 4                  | TD4   | A2                  |                     | 03A                |                  |  |
| 10159   |        | XA136     | 08  |        |           |     |      |    |    |     |                   |        | TC08BP  | 09       | TPNC1A | 01     | 2                  | TD4   | A1                  |                     | 06A                |                  |  |
| 08895   |        | XA136     | 09  |        | XA139     | 45  |      |    |    | 16B | 9                 |        | TBK200  | 01       | TBK200 | 00     | 1                  | TD4   | A2                  |                     | 04B                | BC-2 CLOCK-0- I2 |  |
| 16079   |        | XA136     | 10  |        |           |     |      |    |    |     |                   |        | TS12BQ  | 07       | TPNC1A | 01     | 3                  | TD4   | A1                  |                     | 07A                |                  |  |
| 14747   |        | XA136     | 11  |        | XA135     | 35  |      |    |    | 16B | 9                 |        | TPNC1A  | 01       | TPNC1A | 00     | 1                  | TD4   | A1                  |                     | 05B                | NPL CONTROL.PE*. |  |
| 00342   |        | XA136     | 12  |        |           |     |      |    |    |     |                   |        | +5V     | 01       |        |        |                    | TD4   |                     |                     |                    |                  |  |
| 13696   |        | XA136     | 13  |        | XA134     | 14  |      |    |    | 16B | 9                 |        | TKAACB  | 01       | TPNC1A | 01     | 4                  | TD4   | A1                  |                     | 06B                |                  |  |
| 05153   |        | XA136     | 14  |        | XA136     | 07  |      |    |    | 16B | 9                 |        | SPI011  | 22       | TBK100 | 01     | 1                  | TD4   | B2                  |                     | 09A                | C10              |  |
| 00837   |        | XA136     | 15  |        |           |     |      |    |    |     |                   |        | DNW     | 01       |        |        |                    | TD4   |                     |                     |                    |                  |  |
| 01875   |        | XA136     | 16  |        |           |     |      |    |    |     |                   |        | GND     | 01       |        |        |                    | TD4   |                     |                     | 20B                |                  |  |
| 00838   |        | XA136     | 17  |        |           |     |      |    |    |     |                   |        | DNW     | 01       |        |        |                    | TD4   |                     |                     |                    |                  |  |
| 08887   |        | XA136     | 18  |        | XA146     | 21  |      |    |    | 16B | 9                 |        | TBK13A  | 02       | TBK100 | 01     | 2                  | TD4   | B2                  |                     | 10A                |                  |  |
| 08884   |        | XA136     | 19  |        | XA146     | 14  |      |    |    | 16B | 9                 |        | TBK12A  | 02       | TBK100 | 01     | 3                  | TD4   | B2                  |                     | 09B                |                  |  |
| 08890   |        | XA136     | 20  |        |           |     |      |    |    |     |                   |        | TBK14A  | 02       | TBK100 | 01     | 4                  | TD4   | B2                  |                     | 11A                |                  |  |
| 08881   |        | XA136     | 21  |        | XA139     | 51  |      |    |    | 16B | 9                 |        | TBK100  | 01       | TBK100 | 00     | 1                  | TD4   | B2                  |                     | 10B                | CLOCK INPUT-0    |  |
| 08852   |        | XA136     | 22  |        | XA145     | 09  |      |    |    | 16B | 9                 |        | TBD27A  | 02       | TBD33A | 01     | 1                  | TD4   | B1                  |                     | 12A                |                  |  |
| 08862   |        | XA136     | 23  |        |           |     |      |    |    |     |                   |        | TBD33A  | 02       | TBD33A | 00     | 1                  | TD4   | B1                  |                     | 11B                | LATCH/RESET CONT |  |
| 08864   |        | XA136     | 24  |        |           |     |      |    |    |     |                   |        | TBD34A  | 02       | TBD33A | 01     | 2                  | TD4   | B1                  |                     | 13A                |                  |  |
| 08865   |        | XA136     | 25  |        | XA137     | 25  |      |    |    | 16B | 9                 |        | TBD35A  | 01       | TBD33A | 01     | 3                  | TD4   | B1                  |                     | 12B                |                  |  |
| 08792   |        | XA136     | 26  |        | XA146     | 07  |      |    |    | 16B | 9                 |        | TBC38Q  | 02       | TBD33A | 01     | 4                  | TD4   | B1                  |                     | 14A                |                  |  |
| 00839   |        | XA136     | 27  |        |           |     |      |    |    |     |                   |        | DNW     | 01       |        |        |                    | TD4   |                     |                     |                    |                  |  |
| 00343   |        | XA136     | 28  |        |           |     |      |    |    |     |                   |        | +5V     | 01       |        |        |                    | TD4   |                     |                     |                    |                  |  |
| 00840   |        | XA136     | 29  |        |           |     |      |    |    |     |                   |        | DNW     | 01       |        |        |                    | TD4   |                     |                     |                    |                  |  |
| 08850   |        | XA136     | 30  |        |           |     |      |    |    |     |                   |        | TBD26A  | 02       | TBD23A | 01     | 1                  | TD4   | C2                  |                     | 15A                |                  |  |
| 08847   |        | XA136     | 31  |        | XA149     | 69  |      |    |    | 16B | 9                 |        | TBD25A  | 01       | TBD23A | 01     | 2                  | TD4   | C2                  |                     | 15B                |                  |  |
| 01876   |        | XA136     | 32  |        |           |     |      |    |    |     |                   |        | GND     | 01       |        |        |                    | TD4   |                     |                     | 21B                |                  |  |
| 08842   |        | XA136     | 33  |        | XA137     | 18  |      |    |    | 16B | 9                 |        | TBD23A  | 01       | TBD23A | 00     | 1                  | TD4   | C2                  |                     | 16B                | LATCH/RESET CONT |  |
| 08851   |        | XA136     | 34  |        | XA136     | 22  |      |    |    | 16B | 9                 |        | TBD27A  | 01       | TBD23A | 01     | 3                  | TD4   | C2                  |                     | 16A                |                  |  |
| 08825   |        | XA136     | 35  |        | XA149     | 53  |      |    |    | 16B | 9                 |        | TBD12A  | 01       | TBD12A | 00     | 1                  | TD4   | C1                  |                     | 17B                | LATCH/RESET CONT |  |
| 08772   |        | XA136     | 36  |        | XA145     | 03  |      |    |    | 16B | 9                 |        | TBC28Q  | 01       | TBD23A | 01     | 4                  | TD4   | C2                  |                     | 17A                |                  |  |
| 08761   |        | XA136     | 37  |        | XA139     | 60  |      |    |    | 16B | 9                 |        | TBC1C0  | 02       | TBD12A | 01     | 1                  | TD4   | C1                  |                     | 18B                |                  |  |
| 08828   |        | XA136     | 38  |        |           |     |      |    |    |     |                   |        | TBD13A  | 02       | TBD12A | 01     | 2                  | TD4   | C1                  |                     | 18A                |                  |  |
| 00841   |        | XA136     | 39  |        |           |     |      |    |    |     |                   |        | DNW     | 01       |        |        |                    | TD4   |                     |                     |                    |                  |  |
| 05152   |        | XA136     | 40  |        | XA136     | 14  |      |    |    | 16B | 9                 |        | SPI011  | 21       | TBD12A | 01     | 3                  | TD4   | C1                  |                     | 19A                |                  |  |
| CONNECTOR (XA136) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |    |    |     |                   |        |         |          |        |        |                    |       |                     |                     |                    |                  |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA136  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 64

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | ENFC | PREFIX | CONNECTOR | PIN | ENFC | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00842   |        | XA136     | 41  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 09167   |        | XA136     | 42  |      | XA149  | 29        |     |      | 16B         | 9    |       |       | TBST1P | 04     | TBD12A   | 01   | 4      | TD4              |       |                     | 20A                |                    |        |
| 17008   |        | XA136     | 43  |      | XA128  | 70        |     |      | 16B         | 9    |       |       | TXC3BQ | 04     | TENB2A   | 01   | 1      | TD4              | D2    |                     | 23B                |                    |        |
| 01877   |        | XA136     | 44  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TD4              |       |                     | 27A                |                    |        |
| 12541   |        | XA136     | 45  |      | XA141  | 59        |     |      | 16B         | 9    |       |       | TENB2A | 01     | TENB2A   | 00   | 1      | TD4              | D2    |                     | 24B                | OSC.COUNT#4        |        |
| 10047   |        | XA136     | 46  |      | XA116  | 66        |     |      | 16B         | 9    |       |       | TCOSAB | 05     | TENB2A   | 01   | 2      | TD4              | D2    |                     | 21A                |                    | C08    |
| 16695   |        | XA136     | 47  |      | XA135  | 45        |     |      | 16B         | 9    |       |       | TTWPCA | 01     | TTWPCA   | 00   | 1      | TD4              | D1    |                     | 25B                | TERMINATE WORD P   |        |
| 16948   |        | XA136     | 48  |      | XA128  | 78        |     |      | 16B         | 9    |       |       | TXC1BP | 04     | TENB2A   | 01   | 3      | TD4              | D2    |                     | 22A                |                    |        |
| 16314   |        | XA136     | 49  |      | XA251  | 19        |     |      | 16B         | 9    |       |       | TS21BQ | 03     | TTWPCA   | 01   | 1      | TD4              | D1    |                     | 26B                |                    |        |
| 05148   |        | XA136     | 50  |      | XA137  | 48        |     |      | 16B         | 9    |       |       | SPI011 | 17     | TENB2A   | 01   | 4      | TD4              | D2    |                     | 23A                |                    |        |
| 00843   |        | XA136     | 51  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 14387   |        | XA136     | 52  |      | XA122  | 25        |     |      | 16B         | 9    |       |       | TMT0BP | 03     | TTWPCA   | 01   | 2      | TD4              | D1    |                     | 24A                |                    |        |
| 00844   |        | XA136     | 53  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 09680   |        | XA136     | 54  |      | XA140  | 42        |     |      | 16B         | 9    |       |       | TC0160 | 02     | TTWPCA   | 01   | 3      | TD4              | D1    |                     | 25A                |                    |        |
| 05146   |        | XA136     | 55  |      | XA135  | 52        |     |      | 16B         | 9    |       |       | SPI011 | 15     | TRCPUA   | 01   | 1      | TD4              | E2    |                     | 29B                |                    |        |
| 13672   |        | XA136     | 56  |      | XA138  | 76        |     |      | 16B         | 9    |       |       | TKAAAB | 04     | TTWPCA   | 01   | 4      | TD4              | D1    |                     | 26A                |                    |        |
| 15223   |        | XA136     | 57  |      |        |           |     |      |             |      |       |       | TRCPUA | 02     | TRCPUA   | 00   | 1      | TD4              | E2    |                     | 30B                | OSC-C=1.2.I3       |        |
| 01878   |        | XA136     | 58  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TD4              |       |                     | 40A                |                    |        |
| 09854   |        | XA136     | 59  |      | XA329  | 73        |     |      | 16B         | 9    |       |       | TCPDIA | 02     | TCPDIA   | 00   | 1      | TD4              | E1    |                     | 31B                | DB TO TD CONTROL   |        |
| 14650   |        | XA136     | 60  |      |        |           |     |      |             |      |       |       | TPEDMP | 03     | TRCPUA   | 01   | 2      | TD4              | E2    |                     | 28A                |                    |        |
| 15466   |        | XA136     | 61  |      | XA436  | 24        |     |      | 16B         | 9    |       |       | TR02BS | 01     | TCPDIA   | 01   | 1      | TD4              | E1    |                     | 32B                |                    |        |
| 15725   |        | XA136     | 62  |      | XA327  | 38        |     |      | 16B         | 9    |       |       | TS00A0 | 02     | TRCPUA   | 01   | 3      | TD4              | E2    |                     | 29A                |                    |        |
| 00845   |        | XA136     | 63  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 15225   |        | XA136     | 64  |      |        |           |     |      |             |      |       |       | TRCPU0 | 02     | TRCPUA   | 01   | 4      | TD4              | E2    |                     | 30A                |                    |        |
| 00846   |        | XA136     | 65  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 09126   |        | XA136     | 66  |      | XA139  | 39        |     |      | 16B         | 9    |       |       | TBRSTP | 07     | TCPDIA   | 01   | 2      | TD4              | E1    |                     | 31A                |                    |        |
| 01879   |        | XA136     | 67  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TD4              |       |                     | 40B                |                    |        |
| 16942   |        | XA136     | 68  |      | XA143  | 43        |     |      | 16B         | 9    |       |       | TXC0BQ | 03     | TCPDIA   | 01   | 3      | TD4              | E1    |                     | 32A                |                    |        |
| 09762   |        | XA136     | 69  |      | XA135  | 73        |     |      | 16B         | 9    |       |       | TCMP4A | 02     | TCMP4A   | 00   | 1      | TD4              | F2    |                     | 35A                | ALL BYTES COMPAR   |        |
| 15789   |        | XA136     | 70  |      | XA108  | 05        |     |      | 16B         | 9    |       |       | TS01BQ | 05     | TCPDIA   | 01   | 4      | TD4              | E1    |                     | 33A                |                    |        |
| 09800   |        | XA136     | 71  |      | XA324  | 66        |     |      | 16B         | 9    |       |       | TCM340 | 01     | TCMP4A   | 01   | 1      | TD4              | F2    |                     | 36A                |                    |        |
| 09792   |        | XA136     | 72  |      | XA324  | 40        |     |      | 16B         | 9    |       |       | TCM240 | 01     | TCMP4A   | 01   | 2      | TD4              | F2    |                     | 34A                |                    |        |
| 09808   |        | XA136     | 73  |      | XA220  | 70        |     |      | 16B         | 9    |       |       | TCM440 | 01     | TCMP4A   | 01   | 3      | TD4              | F2    |                     | 36B                |                    |        |
| 09784   |        | XA136     | 74  |      | XA324  | 03        |     |      | 16B         | 9    |       |       | TCM140 | 01     | TCMP4A   | 01   | 4      | TD4              | F2    |                     | 35B                |                    |        |
| 09804   |        | XA136     | 75  |      | XA324  | 78        |     |      | 16B         | 9    |       |       | TCM420 | 01     | TCMP2A   | 01   | 1      | TD4              | F1    |                     | 37B                | ALL BYTES COMPAR   |        |
| 09757   |        | XA136     | 76  |      | XA142  | 74        |     |      | 16B         | 9    |       |       | TCMP2A | 02     | TCMP2A   | 00   | 1      | TD4              | F1    |                     | 37A                |                    |        |
| 09796   |        | XA136     | 77  |      | XA324  | 54        |     |      | 16B         | 9    |       |       | TCM320 | 01     | TCMP2A   | 01   | 2      | TD4              | F1    |                     | 38B                |                    |        |
| 09780   |        | XA136     | 78  |      | XA324  | 08        |     |      | 16B         | 9    |       |       | TCM120 | 01     | TCMP2A   | 01   | 3      | TD4              | F1    |                     | 38A                |                    |        |
| 09788   |        | XA136     | 79  |      | XA324  | 24        |     |      | 16B         | 9    |       |       | TCM220 | 01     | TCMP2A   | 01   | 4      | TD4              | F1    |                     | 39B                |                    |        |
| 00847   |        | XA136     | 80  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 08857   |        | XA137     | 01  |      | XA146  | 06        |     |      | 16B         | 9    |       |       | TB031A | 01     | TBD300   | 01   | 1      | TT3              | A2    |                     | 02B                |                    |        |
| 01880   |        | XA137     | 02  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TT3              |       |                     | 01B                |                    |        |
| 08860   |        | XA137     | 03  |      |        |           |     |      |             |      |       |       | TB032A | 02     | TBD300   | 01   | 2      | TT3              | A2    |                     | 02A                |                    |        |
| 16622   |        | XA137     | 04  |      |        |           |     |      |             |      |       |       | TTESPA | 04     | TTESPA   | 00   | 1      | TT3              | A1    |                     | 04A                | SHIFT PULSE-A      |        |
| 08861   |        | XA137     | 05  |      | XA136  | 23        |     |      | 16B         | 9    |       |       | TB033A | 01     | TBD300   | 01   | 3      | TT3              | A2    |                     | 03B                |                    |        |
| 17021   |        | XA137     | 06  |      | XA141  | 15        |     |      | 16B         | 9    |       |       | TXC7B0 | 03     | TTESPA   | 01   | 1      | TT3              | A1    |                     | 05A                |                    |        |
| 08856   |        | XA137     | 07  |      |        |           |     |      |             |      |       |       | TB0300 | 02     | TBD300   | 00   | 1      | TT3              | A2    |                     | 03A                | BC-3 ORED DATA     |        |
| 10043   |        | XA137     | 08  |      | XA147  | 22        |     |      | 16B         | 9    |       |       | TCOSAB | 01     | TTESPA   | 01   | 2      | TT3              | A1    |                     | 06A                |                    |        |
| CONNECTOR (XA137) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA137  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 65

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------------|--------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |      |                  |       |                     |                    |                    |        |
| 05098   |        | XA137     | 09  |      | XA116  | 06        |     |      | 168         | 9    |       |       | TK0810        | 01     | TK080A | 01       | 1    | TT3  | A3               |       | 04B                 |                    | C10                |        |
| 13554   |        | XA137     | 10  |      | XA133  | 79        |     |      | 168         | 9    |       |       | TI12A0        | 01     | TTESPA | 01       | 3    | TT3  | A1               |       | 07A                 |                    |                    |        |
| 05154   |        | XA137     | 11  |      | XA127  | 43        |     |      | 168         | 9    |       |       | TIPEBQ        | 03     | TK080A | 01       | 2    | TT3  | A3               |       | 05B                 |                    | C10                |        |
| 00344   |        | XA137     | 12  |      |        |           |     |      |             |      |       |       | +5V           | 01     |        |          |      |      |                  |       |                     |                    |                    |        |
| 04957   |        | XA137     | 13  |      |        |           |     |      |             |      |       |       | TMINHP        | 04     | TK080A | 01       | 3    | TT3  | A3               |       | 06B                 |                    | C10                |        |
| 08839   |        | XA137     | 14  |      |        |           |     |      |             |      |       |       | TBD21A        | 02     | TBD200 | 01       | 1    | TT3  | B2               |       | 09A                 |                    |                    |        |
| 07849   |        | XA137     | 15  |      | XA306  | 26        |     |      | 168         | 9    |       |       | TK080A        | 02     | TK080A | 00       | 1    | TT3  | A3               |       | 07B                 |                    | C10                |        |
| 01881   |        | XA137     | 16  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |      |                  |       | 21B                 |                    |                    |        |
| 08840   |        | XA137     | 17  |      | XA149  | 72        |     |      | 168         | 9    |       |       | TBD22A        | 01     | TBD200 | 01       | 2    | TT3  | B2               |       | 08B                 |                    |                    |        |
| 08843   |        | XA137     | 18  |      |        |           |     |      |             |      |       |       | TBD23A        | 02     | TBD200 | 01       | 3    | TT3  | B2               |       | 10A                 |                    |                    |        |
| 08836   |        | XA137     | 19  |      | XA151  | 77        |     |      | 168         | 9    |       |       | TBD200        | 01     | TBD200 | 00       | 1    | TT3  | B2               |       | 09B                 | BC-2 ORED DATA     |                    |        |
| 08845   |        | XA137     | 20  |      | XA144  | 79        |     |      | 168         | 9    |       |       | TBD24A        | 02     | TBD24A | 00       | 1    | TT3  | B1               |       | 11A                 | BOOTSTRAP 1- BYT   |                    |        |
| 08870   |        | XA137     | 21  |      | XA146  | 09        |     |      | 168         | 9    |       |       | TBD41A        | 01     | TBD400 | 01       | 1    | TT3  | B3               |       | 10B                 |                    |                    |        |
| 15832   |        | XA137     | 22  |      | XA342  | 53        |     |      | 168         | 9    |       |       | TS02C0        | 03     | TBD24A | 01       | 1    | TT3  | B1               |       | 12A                 | BOOTSTRAP 1-BYTE   |                    |        |
| 08873   |        | XA137     | 23  |      |        |           |     |      |             |      |       |       | TBD43A        | 02     | TBD400 | 01       | 2    | TT3  | B3               |       | 11B                 |                    |                    |        |
| 08735   |        | XA137     | 24  |      | XA139  | 18        |     |      | 168         | 9    |       |       | TBB7A0        | 02     | TBD24A | 01       | 2    | TT3  | B1               |       | 13A                 |                    |                    |        |
| 08866   |        | XA137     | 25  |      | XA145  | 07        |     |      | 168         | 9    |       |       | TBD35A        | 02     | TBD400 | 01       | 3    | TT3  | B3               |       | 12B                 |                    |                    |        |
| 09183   |        | XA137     | 26  |      | XA149  | 08        |     |      | 168         | 9    |       |       | TBST10        | 05     | TBD24A | 01       | 3    | TT3  | B1               |       | 14A                 |                    |                    |        |
| 08869   |        | XA137     | 27  |      |        |           |     |      |             |      |       |       | TBD400        | 02     | TBD400 | 00       | 1    | TT3  | B3               |       | 13B                 | BC-4 ORED DATA     |                    |        |
| 00345   |        | XA137     | 28  |      |        |           |     |      |             |      |       |       | +5V           | 01     |        |          |      |      |                  |       |                     |                    |                    |        |
| 08946   |        | XA137     | 29  |      |        |           |     |      |             |      |       |       | TBLE3P        | 06     | TBL03A | 01       | 1    | TT3  | C2               |       | 14B                 |                    |                    |        |
| 08933   |        | XA137     | 30  |      | XA140  | 29        |     |      | 168         | 9    |       |       | TBLE2P        | 01     | TBL03A | 01       | 2    | TT3  | C2               |       | 15A                 |                    |                    |        |
| 09053   |        | XA137     | 31  |      | XA138  | 34        |     |      | 168         | 9    |       |       | TBL03A        | 01     | TBL03A | 00       | 1    | TT3  | C2               |       | 15B                 | INHIBIT SETTING    |                    |        |
| 01882   |        | XA137     | 32  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |      |                  |       | 27A                 |                    |                    |        |
| 08703   |        | XA137     | 33  |      | XA139  | 03        |     |      | 168         | 9    |       |       | TBB1A0        | 03     | TBY1CA | 01       | 1    | TT3  | C3               |       | 16B                 |                    |                    |        |
| 08930   |        | XA137     | 34  |      |        |           |     |      |             |      |       |       | TBLE1P        | 04     | TBL03A | 01       | 3    | TT3  | C2               |       | 16A                 |                    |                    |        |
| 09519   |        | XA137     | 35  |      | XA342  | 19        |     |      | 168         | 9    |       |       | TCBS10        | 01     | TBY1CA | 01       | 2    | TT3  | C3               |       | 17B                 |                    |                    |        |
| 08906   |        | XA137     | 36  |      | XA139  | 50        |     |      | 168         | 9    |       |       | TBLD1A        | 01     | TBLD1A | 00       | 1    | TT3  | C1               |       | 17A                 | BLOCK LENGTH DEC   |                    |        |
| 09511   |        | XA137     | 37  |      | XA140  | 15        |     |      | 168         | 9    |       |       | TCBCA0        | 04     | TBY1CA | 01       | 3    | TT3  | C3               |       | 18B                 |                    |                    |        |
| 09035   |        | XA137     | 38  |      | XA324  | 34        |     |      | 168         | 9    |       |       | TBLZ30        | 03     | TBLD1A | 01       | 1    | TT3  | C1               |       | 18A                 |                    |                    |        |
| 09283   |        | XA137     | 39  |      | XA122  | 75        |     |      | 168         | 9    |       |       | TBY1CA        | 02     | TBY1CA | 00       | 1    | TT3  | C3               |       | 19B                 | BYTE 1 COMPARE B   |                    |        |
| 09028   |        | XA137     | 40  |      | XA324  | 01        |     |      | 168         | 9    |       |       | TBLZ20        | 02     | TBLD1A | 01       | 2    | TT3  | C1               |       | 19A                 |                    |                    |        |
| 09215   |        | XA137     | 41  |      | XA142  | 18        |     |      | 168         | 9    |       |       | TBST20        | 03     | TBZZIA | 01       | 1    | TT3  | D2               |       | 22B                 |                    |                    |        |
| 09043   |        | XA137     | 42  |      | XA324  | 53        |     |      | 168         | 9    |       |       | TBLZ40        | 03     | TBLD1A | 01       | 3    | TT3  | C1               |       | 20A                 |                    |                    |        |
| 09295   |        | XA137     | 43  |      | XA305  | 75        |     |      | 168         | 9    |       |       | TBZZIA        | 04     | TBZZIA | 00       | 1    | TT3  | D2               |       | 23B                 | BOOTSTRAP 1*.2     |                    |        |
| 01883   |        | XA137     | 44  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |      |                  |       | 40A                 |                    |                    |        |
| 08717   |        | XA137     | 45  |      | XA139  | 07        |     |      | 168         | 9    |       |       | TBB3A0        | 01     | TBLX2A | 01       | 1    | TT3  | D3               |       | 24B                 |                    |                    |        |
| 09162   |        | XA137     | 46  |      | XA150  | 48        |     |      | 168         | 9    |       |       | TBST1A        | 04     | TBZZIA | 01       | 2    | TT3  | D2               |       | 21A                 |                    |                    |        |
| 09255   |        | XA137     | 47  |      | XA122  | 41        |     |      | 168         | 9    |       |       | TBS7C0        | 08     | TBLX2A | 01       | 2    | TT3  | D3               |       | 25B                 |                    |                    |        |
| 05149   |        | XA137     | 48  |      | XA136  | 40        |     |      | 168         | 9    |       |       | SPIO11        | 18     | TBZZIA | 01       | 3    | TT3  | D2               |       | 22A                 |                    |                    |        |
| 16145   |        | XA137     | 49  |      | XA122  | 48        |     |      | 168         | 9    |       |       | TS14C0        | 05     | TBLX2A | 01       | 3    | TT3  | D3               |       | 26B                 |                    |                    |        |
| 09288   |        | XA137     | 50  |      | XA122  | 76        |     |      | 168         | 9    |       |       | TBY2CA        | 02     | TBY2CA | 00       | 1    | TT3  | D1               |       | 23A                 | BYTE 2 COMPARE B   |                    |        |
| 09313   |        | XA137     | 51  |      | XA145  | 34        |     |      | 168         | 9    |       |       | TBLX2A        | 01     | TBLX2A | 00       | 1    | TT3  | D3               |       | 27B                 | BTSP 1.2 .TE SHI   |                    |        |
| 09523   |        | XA137     | 52  |      | XA342  | 25        |     |      | 168         | 9    |       |       | TCBS20        | 01     | TBY2CA | 01       | 1    | TT3  | D1               |       | 24A                 |                    |                    |        |
| 09254   |        | XA137     | 53  |      | XA137  | 47        |     |      | 168         | 9    |       |       | TBS7C0        | 07     | TB3X2A | 01       | 1    | TT3  | E2               |       | 28B                 |                    |                    |        |
| 09510   |        | XA137     | 54  |      | XA137  | 37        |     |      | 168         | 9    |       |       | TCBCA0        | 03     | TBY2CA | 01       | 2    | TT3  | D1               |       | 25A                 |                    |                    |        |
| 09349   |        | XA137     | 55  |      | XA145  | 46        |     |      | 168         | 9    |       |       | TB3X2A        | 01     | TB3X2A | 00       | 1    | TT3  | E2               |       | 29B                 | BTSP 1.2 .TE SHI   |                    |        |
| 08713   |        | XA137     | 56  |      | XA139  | 01        |     |      | 168         | 9    |       |       | TBB2A0        | 03     | TBY2CA | 01       | 3    | TT3  | D1               |       | 26A                 |                    |                    |        |
| 14887   |        | XA137     | 57  |      |        |           |     |      |             |      |       |       | TPS11A        | 02     | TPS100 | 01       | 1    | TT3  | E3               |       | 30B                 |                    |                    |        |
| 01884   |        | XA137     | 58  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |      |                  |       | 40B                 |                    |                    |        |
| CONNECTOR (XA137) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |               |        |        |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA137  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 66

| RECORD NUMBER | FROM   |           |                                 | SHEET | TO     |           |     | WIRE        |      |       |       | SPEC. INST. WIRE | SIGNAL | SFC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------------|------|-------|-------|------------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             |       | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |                  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14892         |        | XA137     | 59                              |       |        |           |     |             |      |       |       | TPS13A           | 02     | TPS100 | 01       | 2    | TT3    | E3               |       | 31B                 |                    |                    |        |
| 08726         |        | XA137     | 60                              |       | XA199  | 24        |     | 16B         | 9    |       |       | TBB5A0           | 01     | TB3X2A | 01       | 2    | TT3    | E2               |       | 28A                 |                    |                    |        |
| 14890         |        | XA137     | 61                              |       |        |           |     |             |      |       |       | TPS12A           | 03     | TPS100 | 01       | 3    | TT3    | E3               |       | 32B                 |                    |                    |        |
| 16144         |        | XA137     | 62                              |       | XA137  | 49        |     | 16B         | 9    |       |       | TS14C0           | 04     | TB3X2A | 01       | 3    | TT3    | E2               |       | 29A                 |                    |                    |        |
| 14884         |        | XA137     | 63                              |       | XA141  | 62        |     | 16B         | 9    |       |       | TPS100           | 01     | TPS100 | 00       | 1    | TT3    | E3               |       | 33B                 | BYTE COUNT I SET   |                    |        |
| 09332         |        | XA137     | 64                              |       | XA145  | 54        |     | 16B         | 9    |       |       | TB2X2A           | 01     | TB2X2A | 00       | 1    | TT3    | E1               |       | 30A                 | BTSP 1.2 .TE SHI   |                    |        |
| 10248         |        | XA137     | 65                              |       |        |           |     |             |      |       |       | TC12BP           | 05     | TMDZAA | 01       | 1    | TT3    | F2               |       | 34B                 |                    |                    |        |
| 08722         |        | XA137     | 66                              |       | XA139  | 10        |     | 16B         | 9    |       |       | TBB4A0           | 01     | TB2X2A | 01       | 1    | TT3    | E1               |       | 31A                 |                    |                    |        |
| 01885         |        | XA137     | 67                              |       |        |           |     |             |      |       |       | GND              | 01     |        |          |      | TT3    |                  |       |                     |                    |                    |        |
| 09253         |        | XA137     | 68                              |       | XA137  | 53        |     | 16B         | 9    |       |       | TBS7C0           | 06     | TB2X2A | 01       | 2    | TT3    | E1               |       | 32A                 |                    |                    |        |
| 10277         |        | XA137     | 69                              |       |        |           |     |             |      |       |       | TC13CA           | 06     | TMDAAA | 01       | 1    | TT3    | F3               |       | 35A                 |                    |                    |        |
| 16143         |        | XA137     | 70                              |       | XA137  | 62        |     | 16B         | 9    |       |       | TS14C0           | 03     | TB2X2A | 01       | 3    | TT3    | E1               |       | 33A                 |                    |                    |        |
| 10276         |        | XA137     | 71                              |       | XA137  | 69        |     | 16B         | 9    |       |       | TC13CA           | 05     | TMDZAA | 01       | 2    | TT3    | F2               |       | 36A                 |                    |                    |        |
| 10222         |        | XA137     | 72                              |       | XA137  | 76        |     | 16B         | 9    |       |       | TC11CA           | 01     | TMDZAA | 01       | 3    | TT3    | F2               |       | 34A                 |                    |                    |        |
| 12544         |        | XA137     | 73                              |       |        |           |     |             |      |       |       | TENB40           | 02     | TENB40 | 00       | 1    | TT3    | F1               |       | 36B                 | DATA INPUT-ORED    |                    |        |
| 14108         |        | XA137     | 74                              |       | XA139  | 74        |     | 16B         | 9    |       |       | TMDZAA           | 01     | TMDZAA | 00       | 1    | TT3    | F2               |       | 35B                 | INACTIVE MODE 0    |                    |        |
| 13650         |        | XA137     | 75                              |       | XA149  | 68        |     | 16B         | 9    |       |       | TC1311A          | 06     | TENB40 | 01       | 1    | TT3    | F1               |       | 37B                 |                    |                    |        |
| 10223         |        | XA137     | 76                              |       | XA332  | 49        |     | 16B         | 9    |       |       | TC11CA           | 02     | TMDAAA | 01       | 2    | TT3    | F3               |       | 37A                 |                    |                    |        |
| 12528         |        | XA137     | 77                              |       | XA230  | 24        |     | 16B         | 9    |       |       | TENB8P           | 04     | TENB40 | 01       | 2    | TT3    | F1               |       | 38B                 |                    |                    |        |
| 10256         |        | XA137     | 78                              |       |        |           |     |             |      |       |       | TC12BQ           | 08     | TMDAAA | 01       | 3    | TT3    | F3               |       | 38A                 |                    |                    |        |
| 16010         |        | XA137     | 79                              |       | XA442  | 04        |     | 16B         | 9    |       |       | TS1ABA           | 03     | TENB40 | 01       | 3    | TT3    | F1               |       | 39B                 |                    |                    |        |
| 14062         |        | XA137     | 80                              |       | XA139  | 69        |     | 16B         | 9    |       |       | TMDAAA           | 02     | TMDAAA | 00       | 1    | TT3    | F3               |       | 39A                 | ALARM MODE,D REG   |                    |        |
| 16821         |        | XA138     | 01                              |       | XA139  | 11        |     | 16B         | 9    |       |       | TWBXA0           | 01     | TWBXA0 | 00       | 1    | TQ2    | A2               |       | 02B                 | TE TO TD XFER BI   |                    |        |
| 01886         |        | XA138     | 02                              |       |        |           |     |             |      |       |       | GND              | 01     |        |          |      | TQ2    |                  |       | 01A                 |                    |                    |        |
| 16867         |        | XA138     | 03                              |       | XA138  | 04        |     | 16B         | 9    |       |       | TWD1AA           | 04     | TWDXB0 | 01       | 1    | TQ2    | A3               |       | 02A                 |                    |                    |        |
| 16868         |        | XA138     | 04                              |       | XA138  | 08        |     | 16B         | 9    |       |       | TWD1AA           | 05     | TWBXA0 | 01       | 1    | TQ2    | A2               |       | 04A                 |                    |                    |        |
| 16426         |        | XA138     | 05                              |       | XA138  | 07        |     | 16B         | 9    |       |       | TS261A           | 02     | TWBXA0 | 01       | 2    | TQ2    | A2               |       | 03B                 |                    |                    |        |
| 16846         |        | XA138     | 06                              |       |        |           |     |             |      |       |       | TWDXA0           | 11     | TWDXA0 | 00       | 1    | TQ2    | A1               |       | 05A                 | WORD XFER CONTROL  |                    |        |
| 16427         |        | XA138     | 07                              |       | XA138  | 11        |     | 16B         | 9    |       |       | TS261A           | 03     | TWDXB0 | 01       | 2    | TQ2    | A3               |       | 03A                 |                    |                    |        |
| 16869         |        | XA138     | 08                              |       |        |           |     |             |      |       |       | TWD1AA           | 06     | TWDXA0 | 01       | 1    | TQ2    | A1               |       | 06A                 |                    |                    |        |
| 16856         |        | XA138     | 09                              |       |        |           |     |             |      |       |       | TWDXB0           | 10     | TWDXB0 | 00       | 1    | TQ2    | A3               |       | 04B                 | TD XFER CONTROL-   |                    |        |
| 16425         |        | XA138     | 10                              |       | XA138  | 05        |     | 16B         | 9    |       |       | TS261A           | 01     | TWDXA0 | 01       | 2    | TQ2    | A1               |       | 07A                 |                    |                    |        |
| 16428         |        | XA138     | 11                              |       | XA236  | 71        |     | 16B         | 9    |       |       | TS261A           | 04     | TWDXC0 | 01       | 1    | TQ2    | A4               |       | 05B                 |                    |                    |        |
| 00346         |        | XA138     | 12                              |       |        |           |     |             |      |       |       | +5V              | 01     |        |          |      | TQ2    |                  |       |                     |                    |                    |        |
| 16866         |        | XA138     | 13                              |       | XA138  | 03        |     | 16B         | 9    |       |       | TWD1AA           | 03     | TWDXC0 | 01       | 2    | TQ2    | A4               |       | 06B                 |                    |                    |        |
| 08955         |        | XA138     | 14                              |       | XA139  | 21        |     | 16B         | 9    |       |       | TBLM2A           | 01     | TBLM2A | 00       | 1    | TQ2    | B2               |       | 09A                 | GRP 2 BL DECREME   |                    |        |
| 16863         |        | XA138     | 15                              |       |        |           |     |             |      |       |       | TWDXC0           | 07     | TWDXC0 | 00       | 1    | TQ2    | A4               |       | 07B                 | TD XFER CONTROL-   |                    |        |
| 01887         |        | XA138     | 16                              |       |        |           |     |             |      |       |       | GND              | 01     |        |          |      | TQ2    |                  |       | 01B                 |                    |                    |        |
| 08899         |        | XA138     | 17                              |       | XA138  | 18        |     | 16B         | 9    |       |       | TBLDA0           | 01     | TBLM3A | 01       | 1    | TQ2    | B3               |       | 08B                 |                    |                    |        |
| 08900         |        | XA138     | 18                              |       | XA138  | 24        |     | 16B         | 9    |       |       | TBLDA0           | 02     | TBLM2A | 01       | 1    | TQ2    | B2               |       | 10A                 |                    |                    |        |
| 09041         |        | XA138     | 19                              |       | XA138  | 40        |     | 16B         | 9    |       |       | TBL240           | 01     | TBLM3A | 01       | 2    | TQ2    | B3               |       | 09B                 |                    |                    |        |
| 08914         |        | XA138     | 20                              |       | XA139  | 49        |     | 16B         | 9    |       |       | TBLD20           | 01     | TBLM2A | 01       | 2    | TQ2    | B2               |       | 11A                 |                    |                    |        |
| 08961         |        | XA138     | 21                              |       | XA139  | 27        |     | 16B         | 9    |       |       | TBLM3A           | 01     | TBLM3A | 00       | 1    | TQ2    | B3               |       | 10B                 | GRP 3 BL DECREMEN  |                    |        |
| 08950         |        | XA138     | 22                              |       | XA139  | 17        |     | 16B         | 9    |       |       | TBLM1A           | 01     | TBLM1A | 00       | 1    | TQ2    | B1               |       | 12A                 | GRP 1 BL DECREMEN  |                    |        |
| 14811         |        | XA138     | 23                              |       | XA135  | 63        |     | 16B         | 9    |       |       | TPQRS            | 02     | TBMAA0 | 01       | 1    | TQ2    | B4               |       | 11B                 |                    |                    |        |
| 08901         |        | XA138     | 24                              |       | XA139  | 46        |     | 16B         | 9    |       |       | TBLDA0           | 03     | TBLM1A | 01       | 1    | TQ2    | B1               |       | 13A                 |                    |                    |        |
| 13880         |        | XA138     | 25                              |       | XA134  | 69        |     | 16B         | 9    |       |       | TKTS0A           | 02     | TBMAA0 | 01       | 2    | TQ2    | B4               |       | 12B                 |                    |                    |        |
| 08909         |        | XA138     | 26                              |       | XA139  | 48        |     | 16B         | 9    |       |       | TBLD10           | 01     | TBLM1A | 01       | 2    | TQ2    | B1               |       | 14A                 |                    |                    |        |
| CONNECTOR     |        | XA138     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |             |      |       |       |                  |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA138  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 67

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE  |             |      | SPEC. INST. MISC. | SIGNAL | SEQ NO     | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------------------|--------|------------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | EN 74 | MULTI GROUP | CODE |                   |        |            |          |        |        |                  |       |                     |                    |                    |        |
| 09073   |        | XA138     | 27  |        | XA141     | 48  |       |             | 168  | 9                 |        | TBMAA0 +5V | 01       | TBMAA0 | 00     | 1                | TQ2   | B4                  | 13B                | SET BASE MEM ACC   |        |
| 00347   |        | XA138     | 28  |        |           |     |       |             |      |                   |        |            |          |        |        |                  |       |                     |                    |                    |        |
| 08931   |        | XA138     | 29  |        | XA148     | 19  |       |             | 168  | 9                 |        | TBLE1Q     | 01       | TBL12A | 01     | 1                | TQ2   | C3                  | 14B                |                    |        |
| 09051   |        | XA138     | 30  |        | XA139     | 36  |       |             | 168  | 9                 |        | TBL01A     | 01       | TBL01A | 00     | 1                | TQ2   | C2                  | 15A                | TBLE0 SET REMAIN   |        |
| 09062   |        | XA138     | 31  |        |           |     |       |             |      |                   |        | TBL13A     | 02       | TBL12A | 01     | 2                | TQ2   | C3                  | 15B                |                    |        |
| 01888   |        | XA138     | 32  |        |           |     |       |             |      |                   |        | GND        | 01       |        |        |                  | TQ2   |                     | 20B                |                    |        |
| 09059   |        | XA138     | 33  |        | XA140     | 34  |       |             | 168  | 9                 |        | TBL12A     | 01       | TBL12A | 00     | 1                | TQ2   | C3                  | 16B                | BLE1 SET LEAVE S   |        |
| 09054   |        | XA138     | 34  |        |           |     |       |             |      |                   |        | TBL03A     | 02       | TBL01A | 01     | 1                | TQ2   | C2                  | 16A                |                    |        |
| 09276   |        | XA138     | 35  |        | XA439     | 65  |       |             | 168  | 9                 |        | TDI2A0     | 00       | TED2AA | 01     | 1                | TQ2   | C4                  | 17B                |                    | G01    |
| 08924   |        | XA138     | 36  |        | XA144     | 05  |       |             | 168  | 9                 |        | TBLE0Q     | 01       | TBL01A | 01     | 2                | TQ2   | C2                  | 17A                |                    |        |
| 05151   |        | XA138     | 37  |        |           |     |       |             |      |                   |        | TI10C0     | 11       | TED2AA | 01     | 2                | TQ2   | C4                  | 18B                |                    | G01    |
| 08913   |        | XA138     | 38  |        |           |     |       |             |      |                   |        | TBL02A     | 03       | TBL02A | 00     | 1                | TQ2   | C1                  | 18A                | BLOCK LENGTH DEC   |        |
| 09281   |        | XA138     | 39  |        | XA246     | 26  |       |             | 168  | 9                 |        | TED2AA     | 01       | TED2AA | 00     | 1                | TQ2   | C4                  | 19B                | S14.M3.MEM PE*-G01 | G01    |
| 09042   |        | XA138     | 40  |        | XA137     | 42  |       |             | 168  | 9                 |        | TBLZ40     | 02       | TBL02A | 01     | 1                | TQ2   | C1                  | 19A                |                    |        |
| 14527   |        | XA138     | 41  |        | XA138     | 48  |       |             | 168  | 9                 |        | TM03D0     | 01       | TPEM3A | 01     | 1                | TQ2   | D3                  | 22B                |                    |        |
| 09034   |        | XA138     | 42  |        | XA137     | 38  |       |             | 168  | 9                 |        | TBLZ30     | 02       | TBL02A | 01     | 2                | TQ2   | C1                  | 20A                |                    |        |
| 14671   |        | XA138     | 43  |        | XA138     | 50  |       |             | 168  | 9                 |        | TPEM10     | 03       | TPEM3A | 01     | 2                | TQ2   | D3                  | 23B                |                    |        |
| 01889   |        | XA138     | 44  |        |           |     |       |             |      |                   |        | GND        | 01       |        |        |                  | TQ2   |                     | 21B                |                    |        |
| 14685   |        | XA138     | 45  |        | XA213     | 17  |       |             | 168  | 9                 |        | TPEM3A     | 03       | TPEM3A | 00     | 1                | TQ2   | D3                  | 24B                | PE UNLOAD          |        |
| 14682   |        | XA138     | 46  |        |           |     |       |             |      |                   |        | TPEM2A     | 07       | TPEM2A | 00     | 1                | TQ2   | D2                  | 21A                | PARITY ERROR       |        |
| 05150   |        | XA138     | 47  |        |           |     |       |             |      |                   |        | TS21BP     | 09       | TI1260 | 01     | 1                | TQ2   | D4                  | 25B                |                    | C05    |
| 14528   |        | XA138     | 48  |        | XA138     | 54  |       |             | 168  | 9                 |        | TM03D0     | 02       | TPEM2A | 01     | 1                | TQ2   | D2                  | 22A                |                    |        |
| 05116   |        | XA138     | 49  |        | XA339     | 36  |       |             | 168  | 9                 |        | TMRUAA4    | 205      | TI1260 | 01     | 2                | TQ2   | D4                  | 26B                |                    | C05    |
| 14672   |        | XA138     | 50  |        | XA138     | 56  |       |             | 168  | 9                 |        | TPEM10     | 04       | TPEM2A | 01     | 2                | TQ2   | D2                  | 23A                |                    |        |
| 07850   |        | XA138     | 51  |        |           |     |       |             |      |                   |        | TI1260     | 02       | TI1260 | 00     | 1                | TQ2   | D4                  | 27B                |                    | C05    |
| 14663   |        | XA138     | 52  |        | XA140     | 47  |       |             | 168  | 9                 |        | TPEM1A     | 02       | TPEM1A | 00     | 1                | TQ2   | D1                  | 24A                | PARITY ERROR       |        |
| 13345   |        | XA138     | 53  |        |           |     |       |             |      |                   |        | TINDBR     | 02       | TINDBS | 01     | 1                | TQ2   | E3                  | 28B                |                    |        |
| 14529   |        | XA138     | 54  |        | XA139     | 78  |       |             | 168  | 9                 |        | TM03D0     | 03       | TPEM1A | 01     | 1                | TQ2   | D1                  | 25A                |                    |        |
| 13308   |        | XA138     | 55  |        | XA142     | 57  |       |             | 168  | 9                 |        | TINDAA     | 01       | TINDBS | 01     | 2                | TQ2   | E3                  | 29B                |                    |        |
| 14673   |        | XA138     | 56  |        | XA349     | 07  |       |             | 168  | 9                 |        | TPEM10     | 05       | TPEM1A | 01     | 2                | TQ2   | D1                  | 26A                |                    |        |
| 13347   |        | XA138     | 57  |        | XA140     | 65  |       |             | 168  | 9                 |        | TINDBS     | 02       | TINDBS | 00     | 1                | TQ2   | E3                  | 30B                | CMD CLOCK-0-CLK4   |        |
| 01890   |        | XA138     | 58  |        |           |     |       |             |      |                   |        | GND        | 01       |        |        |                  | TQ2   |                     | 27A                |                    |        |
| 16914   |        | XA138     | 59  |        |           |     |       |             |      |                   |        | TWTMOA     | 05       | TWTDD0 | 01     | 1                | TQ2   | E4                  | 31B                |                    |        |
| 09266   |        | XA138     | 60  |        | XA127     | 04  |       |             | 168  | 9                 |        | TBT120     | 01       | TBT120 | 00     | 1                | TQ2   | E2                  | 28A                | LITE DIAGNOSTIC P  |        |
| 16919   |        | XA138     | 61  |        |           |     |       |             |      |                   |        | TWTOFA     | 05       | TWTDD0 | 01     | 2                | TQ2   | E4                  | 32B                |                    |        |
| 09264   |        | XA138     | 62  |        | XA112     | 03  |       |             | 168  | 9                 |        | TBT12A     | 03       | TBT120 | 01     | 1                | TQ2   | E2                  | 29A                |                    |        |
| 16907   |        | XA138     | 63  |        |           |     |       |             |      |                   |        | TWTDD0     | 09       | TWTDD0 | 00     | 1                | TQ2   | E4                  | 33B                | TD TO TE WORD XF   |        |
| 05145   |        | XA138     | 64  |        | XA136     | 55  |       |             | 168  | 9                 |        | SPI011     | 14       | TBT120 | 01     | 2                | TQ2   | E2                  | 30A                |                    |        |
| 16918   |        | XA138     | 65  |        | XA138     | 61  |       |             | 168  | 9                 |        | TWTOFA     | 04       | TWTOFA | 01     | 1                | TQ2   | F3                  | 34B                |                    |        |
| 14317   |        | XA138     | 66  |        | XA420     | 50  |       |             | 168  | 9                 |        | TMRUMO     | 01       | TMRUMO | 00     | 1                | TQ2   | E1                  | 31A                |                    |        |
| 01891   |        | XA138     | 67  |        |           |     |       |             |      |                   |        | GND        | 01       |        |        |                  | TQ2   |                     | 40A                |                    |        |
| 09263   |        | XA138     | 68  |        | XA138     | 62  |       |             | 168  | 9                 |        | TBT12A     | 02       | TMRUMO | 01     | 1                | TQ2   | E1                  | 32A                |                    |        |
| 16880   |        | XA138     | 69  |        |           |     |       |             |      |                   |        | TWTOFA     | 09       | TWTOFA | 00     | 1                | TQ2   | F3                  | 35A                | WORD XFER TO-TE    |        |
| 14272   |        | XA138     | 70  |        |           |     |       |             |      |                   |        | TMRUCA4    | 11       | TMRUMO | 01     | 2                | TQ2   | E1                  | 33A                |                    |        |
| 16917   |        | XA138     | 71  |        | XA138     | 65  |       |             | 168  | 9                 |        | TWTOFA     | 03       | TWTDB0 | 01     | 1                | TQ2   | F2                  | 36A                |                    |        |
| 16889   |        | XA138     | 72  |        |           |     |       |             |      |                   |        | TWTDB0     | 09       | TWTDB0 | 00     | 1                | TQ2   | F2                  | 34A                | TD TO TE WORD XF   |        |
| 16912   |        | XA138     | 73  |        | XA138     | 74  |       |             | 168  | 9                 |        | TWTMOA     | 03       | TWTDB0 | 01     | 2                | TQ2   | F2                  | 36B                |                    |        |
| 16913   |        | XA138     | 74  |        | XA138     | 59  |       |             | 168  | 9                 |        | TWTMOA     | 04       | TWTOFA | 01     | 2                | TQ2   | F3                  | 35B                |                    |        |
| 16890   |        | XA138     | 75  |        | XA224     | 31  |       |             | 168  | 9                 |        | TWTDC0     | 01       | TWTDC0 | 00     | 1                | TQ2   | F1                  | 37B                | TD TO TE WORD XF   |        |
| 13673   |        | XA138     | 76  |        | XA246     | 64  |       |             | 168  | 9                 |        | TKAAAB     | 05       | TWTCAA | 01     | 1                | TQ2   | F4                  | 37A                |                    |        |
| CONNECTOR XA138 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |                   |        |            |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA138  
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| RECORD NUMBER                                     | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FAC | CKT OR CHIP TYPE | GRUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|--------|--------|----------|------|-----|------------------|------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | ENF | PREFIX | CONNECTOR | PIN | ENF | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |     |                  |      |                     |                    |                    |        |
| 16916   |        | XA138     | 77  |     | XA138  | 71        |     |     | 16B         | 9    |       |       | TWTOFA | 02     | TWTDC0   | 01   | 1   | TQ2              | F1   |                     | 38B                |                    |        |
| 16909   |        | XA138     | 78  |     |        |           |     |     |             |      |       |       | TWTG10 | 02     | TWTCAA   | 01   | 2   | TQ2              | F4   |                     | 38A                |                    |        |
| 16911   |        | XA138     | 79  |     | XA138  | 73        |     |     | 16B         | 9    |       |       | TWTMOA | 02     | TWTDC0   | 01   | 2   | TQ2              | F1   |                     | 39B                |                    |        |
| 16871   |        | XA138     | 80  |     |        |           |     |     |             |      |       |       | TWTCAA | 02     | TWTCAA   | 00   | 1   | TQ2              | F4   |                     | 39A                | WORD XFER CLK(S2)  |        |
| 08714   |        | XA139     | 01  |     |        |           |     |     |             |      |       |       | TBB2A0 | 04     | TBB2A0   | 00   | 1   | THI              | A4   |                     | 02B                | BYTE 2             |        |
| 01892   |        | XA139     | 02  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |     | THI              |      |                     | 01A                |                    |        |
| 08704   |        | XA139     | 03  |     |        |           |     |     |             |      |       |       | TBB1A0 | 04     | TBB1A0   | 00   | 1   | THI              | A3   |                     | 03A                | BYTE 1             |        |
| 08700   |        | XA139     | 04  |     |        |           |     |     |             |      |       |       | TBB1AA | 03     | TBB1A0   | 01   | 1   | THI              | A3   |                     | 02A                |                    |        |
| 08710   |        | XA139     | 05  |     |        |           |     |     |             |      |       |       | TBB2AA | 03     | TBB2A0   | 01   | 1   | THI              | A4   |                     | 03B                |                    |        |
| 04760   |        | XA139     | 06  |     | XA406  | 39        |     |     | 16B         | 9    |       |       | RTCN7Q | 01     | TKRC2A   | 01   | 1   | THI              | A2   |                     | 05A                |                    |        |
| 08718   |        | XA139     | 07  |     | XA145  | 05        |     |     | 16B         | 9    |       |       | TBB3A0 | 02     | TBB3A0   | 00   | 1   | THI              | A5   |                     | 04B                | BYTE 3             |        |
| 13863   |        | XA139     | 08  |     |        |           |     |     |             |      |       |       | TKRC2A | 05     | TKRC2A   | 00   | 1   | THI              | A2   |                     | 04A                | MEM TIME OUT COU   |        |
| 08716   |        | XA139     | 09  |     |        |           |     |     |             |      |       |       | TBB3AA | 02     | TBB3A0   | 01   | 1   | THI              | A5   |                     | 05B                |                    |        |
| 08723   |        | XA139     | 10  |     |        |           |     |     |             |      |       |       | TBB4A0 | 02     | TBB4A0   | 00   | 1   | THI              | A6   |                     | 06B                | BYTE 4             |        |
| 16822   |        | XA139     | 11  |     | XA240  | 53        |     |     | 16B         | 9    |       |       | TWBXA0 | 02     | TWBXAA   | 01   | 1   | THI              | A1   |                     | 07A                |                    |        |
| 00348   |        | XA139     | 12  |     |        |           |     |     |             |      |       |       | +5V    | 01     |          |      |     | THI              |      |                     |                    |                    |        |
| 16818   |        | XA139     | 13  |     | XA140  | 78        |     |     | 16B         | 9    |       |       | TWBXAA | 01     | TWBXAA   | 00   | 1   | THI              | A1   |                     | 06A                | TD XFER CONTROL    |        |
| 08954   |        | XA139     | 14  |     |        |           |     |     |             |      |       |       | TBLM10 | 03     | TBLM10   | 00   | 1   | THI              | B4   |                     | 08B                | GRP 1 BL DECREME   |        |
| 08721   |        | XA139     | 15  |     |        |           |     |     |             |      |       |       | TBB4AA | 02     | TBB4A0   | 01   | 1   | THI              | A6   |                     | 07B                |                    |        |
| 01893   |        | XA139     | 16  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |     | THI              |      |                     | 20B                |                    |        |
| 08951   |        | XA139     | 17  |     |        |           |     |     |             |      |       |       | TBLM1A | 02     | TBLM10   | 01   | 1   | THI              | B4   |                     | 09B                |                    |        |
| 08736   |        | XA139     | 18  |     | XA149  | 10        |     |     | 16B         | 9    |       |       | TBB7A0 | 03     | TBB7A0   | 00   | 1   | THI              | B3   |                     | 09A                | BYTE 7 COUNT-0     |        |
| 08960   |        | XA139     | 19  |     |        |           |     |     |             |      |       |       | TBLM20 | 04     | TBLM20   | 00   | 1   | THI              | B5   |                     | 10B                | GRP 2 BL DECREME   |        |
| 08733   |        | XA139     | 20  |     |        |           |     |     |             |      |       |       | TBB7AA | 02     | TBB7A0   | 01   | 1   | THI              | B3   |                     | 10A                |                    |        |
| 08956   |        | XA139     | 21  |     |        |           |     |     |             |      |       |       | TBLM2A | 02     | TBLM20   | 01   | 1   | THI              | B5   |                     | 11B                |                    |        |
| 08725   |        | XA139     | 22  |     |        |           |     |     |             |      |       |       | TBB5AA | 02     | TBB5A0   | 01   | 1   | THI              | B1   |                     | 14A                |                    |        |
| 08729   |        | XA139     | 23  |     |        |           |     |     |             |      |       |       | TBB6AA | 02     | TBB6A0   | 01   | 1   | THI              | B2   |                     | 12A                |                    |        |
| 08727   |        | XA139     | 24  |     |        |           |     |     |             |      |       |       | TBB5A0 | 02     | TBB5A0   | 00   | 1   | THI              | B1   |                     | 13A                | BYTE 5             |        |
| 08731   |        | XA139     | 25  |     |        |           |     |     |             |      |       |       | TBB6A0 | 02     | TBB6A0   | 00   | 1   | THI              | B2   |                     | 11A                | BYTE 6             |        |
| 08966   |        | XA139     | 26  |     |        |           |     |     |             |      |       |       | TBLM30 | 04     | TBLM30   | 00   | 1   | THI              | B6   |                     | 12B                | GRP 3 BL DECREME   |        |
| 08962   |        | XA139     | 27  |     |        |           |     |     |             |      |       |       | TBLM3A | 02     | TBLM30   | 01   | 1   | THI              | B6   |                     | 13B                |                    |        |
| 00349   |        | XA139     | 28  |     |        |           |     |     |             |      |       |       | +5V    | 01     |          |      |     | THI              |      |                     |                    |                    |        |
| 08947   |        | XA139     | 29  |     | XA141  | 35        |     |     | 16B         | 9    |       |       | TBLE3Q | 01     | TBL3A0   | 01   | 1   | THI              | C4   |                     | 15B                |                    |        |
| 09069   |        | XA139     | 30  |     | XA148  | 34        |     |     | 16B         | 9    |       |       | TBL3A0 | 01     | TBL3A0   | 00   | 1   | THI              | C4   |                     | 14B                | SET TBLE3          |        |
| 09010   |        | XA139     | 31  |     | XA146  | 43        |     |     | 16B         | 9    |       |       | TBLZA0 | 03     | TBLZA0   | 00   | 1   | THI              | C5   |                     | 16B                | BLOCK LENGTH ZER   |        |
| 01894   |        | XA139     | 32  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |     | THI              |      |                     | 21B                |                    |        |
| 09007   |        | XA139     | 33  |     |        |           |     |     |             |      |       |       | TBLZAA | 05     | TBLZA0   | 01   | 1   | THI              | C5   |                     | 17B                |                    |        |
| 09049   |        | XA139     | 34  |     | XA148  | 24        |     |     | 16B         | 9    |       |       | TBL0A0 | 01     | TBL0A0   | 00   | 1   | THI              | C3   |                     | 15A                | SET TBLE0          |        |
| 11284   |        | XA139     | 35  |     |        |           |     |     |             |      |       |       | TD0PAA | 02     | TD0PAA   | 01   | 1   | THI              | C2   |                     | 18A                |                    |        |
| 09052   |        | XA139     | 36  |     |        |           |     |     |             |      |       |       | TBL01A | 02     | TBL0A0   | 01   | 1   | THI              | C3   |                     | 16A                |                    |        |
| 11276   |        | XA139     | 37  |     | XA208  | 05        |     |     | 16B         | 9    |       |       | TD0PAA | 01     | TD0PAA   | 00   | 1   | THI              | C2   |                     | 17A                |                    |        |
| 08918   |        | XA139     | 38  |     | XA122  | 08        |     |     | 16B         | 9    |       |       | TBLEZA | 03     | TBLEZO   | 01   | 1   | THI              | C1   |                     | 20A                |                    |        |
| 09127   |        | XA139     | 39  |     |        |           |     |     |             |      |       |       | TBRSTP | 08     | TBRSU0   | 01   | 1   | THI              | C6   |                     | 19B                |                    |        |
| 08920   |        | XA139     | 40  |     | XA343  | 71        |     |     | 16B         | 9    |       |       | TBLEZO | 01     | TBLEZO   | 00   | 1   | THI              | C1   |                     | 19A                | EXT BL = 0         |        |
| 08898   |        | XA139     | 41  |     |        |           |     |     |             |      |       |       | TBLDAA | 02     | TBLDA0   | 01   | 1   | THI              | D4   |                     | 23B                |                    |        |
| 09148   |        | XA139     | 42  |     | XA142  | 59        |     |     | 16B         | 9    |       |       | TBRSU0 | 05     | TBRSU0   | 00   | 1   | THI              | C6   |                     | 18B                | BURST MODE -0 UN   |        |
| 08894   |        | XA139     | 43  |     |        |           |     |     |             |      |       |       | TBK20A | 04     | TBK20A   | 00   | 1   | THI              | D5   |                     | 24B                | BC-2 CLOCK-A       |        |
| 01895   |        | XA139     | 44  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |     | THI              |      |                     | 27A                |                    |        |
| CONNECTOR (XA139) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |             |      |       |       |        |        |          |      |     |                  |      |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA139  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 69

| RECORD NUMBER | FROM   |           |                                 | Z | TO     |           |     | MULTI GROUP | WIRE  |      |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|---|--------|-----------|-----|-------------|-------|------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             |   | PREFIX | CONNECTOR | PIN |             | SH FE | CODE | COLOR |               |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 08896         |        | XA139     | 45                              |   |        |           |     |             |       |      |       | TBK200        | 02     | TBK20A | 01       | 1    | THI    | 05               |       | 25B                 |                    |                    |        |
| 08902         |        | XA139     | 46                              |   | XA230  | 78        |     |             | 16B   | 9    |       | TBLDA0        | 04     | TBLDA0 | 00       | 1    | THI    | 04               |       | 22B                 | MODE=0*.XFER CON   |                    |        |
| 08912         |        | XA139     | 47                              |   | XA138  | 38        |     |             | 16B   | 9    |       | TBLD2A        | 02     | TBLD20 | 01       | 1    | THI    | 02               |       | 24A                 |                    |                    |        |
| 08910         |        | XA139     | 48                              |   |        |           |     |             |       |      |       | TBLD10        | 02     | TBLD10 | 00       | 1    | THI    | 03               |       | 21A                 | GRP 1 PRE GRP 2.   |                    |        |
| 08915         |        | XA139     | 49                              |   |        |           |     |             |       |      |       | TBLD20        | 02     | TBLD20 | 00       | 1    | THI    | 02               |       | 23A                 | GRP 2 PRE GRP 3.   |                    |        |
| 08907         |        | XA139     | 50                              |   | XA350  | 49        |     |             | 16B   | 9    |       | TBLD1A        | 02     | TBLD10 | 01       | 1    | THI    | 03               |       | 22A                 |                    |                    |        |
| 08882         |        | XA139     | 51                              |   |        |           |     |             |       |      |       | TBK100        | 02     | TBK10A | 01       | 1    | THI    | 06               |       | 27B                 |                    |                    |        |
| 08977         |        | XA139     | 52                              |   | XA140  | 41        |     |             | 16B   | 9    |       | TBLTAA        | 01     | TBLX40 | 01       | 1    | THI    | 01               |       | 26A                 |                    |                    |        |
| 08879         |        | XA139     | 53                              |   | XA151  | 60        |     |             | 16B   | 9    |       | TBK10A        | 01     | TBK10A | 00       | 1    | THI    | 06               |       | 28B                 | CLOCK INPUT-A      |                    |        |
| 09002         |        | XA139     | 54                              |   |        |           |     |             |       |      |       | TBLX40        | 04     | TBLX40 | 00       | 1    | THI    | 01               |       | 25A                 | GRP 4 XFER CONT-   |                    |        |
| 14622         |        | XA139     | 55                              |   | XA150  | 63        |     |             | 16B   | 9    |       | TNIABA        | 01     | TNIAB0 | 01       | 1    | THI    | E4               |       | 29B                 |                    |                    |        |
| 14625         |        | XA139     | 56                              |   |        |           |     |             |       |      |       | TNIAB0        | 02     | TNIAB0 | 00       | 1    | THI    | E4               |       | 28B                 | NOT IND. NOT ACC   |                    |        |
| 14565         |        | XA139     | 57                              |   | XA151  | 48        |     |             | 16B   | 9    |       | TM0510        | 01     | TM0510 | 00       | 1    | THI    | E5               |       | 30B                 | M3.S04. NO MEM P   |                    |        |
| 01896         |        | XA139     | 58                              |   |        |           |     |             |       |      |       | GND           | 01     |        |          |      | THI    |                  |       | 40A                 |                    |                    |        |
| 14564         |        | XA139     | 59                              |   |        |           |     |             |       |      |       | TM051A        | 02     | TM0510 | 01       | 1    | THI    | E5               |       | 31B                 |                    |                    |        |
| 08762         |        | XA139     | 60                              |   | XA147  | 18        |     |             | 16B   | 9    |       | TBC1C0        | 03     | TBC1C0 | 00       | 1    | THI    | E3               |       | 28A                 | BYTE 1 OVERLOAD    |                    |        |
| 08771         |        | XA139     | 61                              |   |        |           |     |             |       |      |       | TBC2B0        | 07     | TBC2C0 | 01       | 1    | THI    | E2               |       | 31A                 |                    |                    |        |
| 08750         |        | XA139     | 62                              |   | XA147  | 64        |     |             | 16B   | 9    |       | TBC1B0        | 04     | TBC1C0 | 01       | 1    | THI    | E3               |       | 29A                 |                    |                    |        |
| 08782         |        | XA139     | 63                              |   | XA413  | 71        |     |             | 16B   | 9    |       | TBC2C0        | 04     | TBC2C0 | 00       | 1    | THI    | E2               |       | 30A                 | BYTE COUNTER 2 U   |                    |        |
| 08805         |        | XA139     | 64                              |   | XA128  | 60        |     |             | 16B   | 9    |       | TBC4B0        | 06     | TBC4C0 | 01       | 1    | THI    | E1               |       | 33A                 |                    |                    |        |
| 14537         |        | XA139     | 65                              |   | XA149  | 21        |     |             | 16B   | 9    |       | TM032A        | 01     | TM0310 | 01       | 1    | THI    | E6               |       | 33B                 |                    |                    |        |
| 08815         |        | XA139     | 66                              |   | XA413  | 76        |     |             | 16B   | 9    |       | TBC4C0        | 04     | TBC4C0 | 00       | 1    | THI    | E1               |       | 32A                 | BYTE COUNTER 4 U   |                    |        |
| 01897         |        | XA139     | 67                              |   |        |           |     |             |       |      |       | GND           | 01     |        |          |      | THI    |                  |       |                     |                    |                    |        |
| 14536         |        | XA139     | 68                              |   |        |           |     |             |       |      |       | TM0310        | 02     | TM0310 | 00       | 1    | THI    | E6               |       | 32B                 | M03 ON, LEAVE ON   |                    |        |
| 14063         |        | XA139     | 69                              |   |        |           |     |             |       |      |       | TM0AAA        | 03     | TM0AAA | 01       | 1    | THI    | F3               |       | 35B                 |                    |                    |        |
| 14064         |        | XA139     | 70                              |   | XA345  | 78        |     |             | 16B   | 9    |       | TM0AA0        | 01     | TM0AA0 | 00       | 1    | THI    | F3               |       | 34B                 | ALARM MODE,0 REG   |                    |        |
| 13350         |        | XA139     | 71                              |   | XA236  | 79        |     |             | 16B   | 9    |       | TINDCA        | 02     | TINDCA | 00       | 1    | THI    | F2               |       | 36B                 | INDICATOR F/F UN   |                    |        |
| 14114         |        | XA139     | 72                              |   | XA215  | 64        |     |             | 16B   | 9    |       | TM0ZA0        | 03     | TM0ZA0 | 00       | 1    | THI    | F4               |       | 34A                 | MODE ZERO DECODE   |                    |        |
| 13340         |        | XA139     | 73                              |   | XA133  | 78        |     |             | 16B   | 9    |       | TINDBQ        | 04     | TINDCA | 01       | 1    | THI    | F2               |       | 37B                 |                    |                    |        |
| 14109         |        | XA139     | 74                              |   | XA146  | 34        |     |             | 16B   | 9    |       | TM0ZAA        | 02     | TM0ZA0 | 01       | 1    | THI    | F4               |       | 35A                 |                    |                    |        |
| 12540         |        | XA139     | 75                              |   |        |           |     |             |       |      |       | TENB10        | 02     | TENB1A | 01       | 1    | THI    | F6               |       | 39A                 |                    |                    |        |
| 14505         |        | XA139     | 76                              |   | XA245  | 36        |     |             | 16B   | 9    |       | TM03B0        | 01     | TM03D0 | 01       | 1    | THI    | F5               |       | 37A                 |                    |                    |        |
| 12536         |        | XA139     | 77                              |   | XA238  | 64        |     |             | 16B   | 9    |       | TENB1A        | 01     | TENB1A | 00       | 1    | THI    | F6               |       | 38A                 | CLOCK IN ENABLE    |                    |        |
| 14530         |        | XA139     | 78                              |   | XA340  | 71        |     |             | 16B   | 9    |       | TM03D0        | 04     | TM03D0 | 00       | 1    | THI    | F5               |       | 36A                 | STATE M3 UNLOAD-   |                    |        |
| 13494         |        | XA139     | 79                              |   |        |           |     |             |       |      |       | TIZCKA        | 02     | TIZCK0 | 01       | 1    | THI    | F1               |       | 39B                 |                    |                    |        |
| 13496         |        | XA139     | 80                              |   |        |           |     |             |       |      |       | TIZCK0        | 02     | TIZCK0 | 00       | 1    | THI    | F1               |       | 38B                 | CMD CLOCK -A       |                    |        |
| 16935         |        | XA140     | 01                              |   | XA141  | 10        |     |             | 16B   | 9    |       | TXCAZ0        | 01     | TXCAZ0 | 00       | 1    | TQ2    | A2               |       | 02B                 | COUNT = ZERO       |                    |        |
| 01898         |        | XA140     | 02                              |   |        |           |     |             |       |      |       | GND           | 01     |        |          |      | TQ2    |                  |       | 01A                 |                    |                    |        |
| 09883         |        | XA140     | 03                              |   | XA112  | 13        |     |             | 16B   | 9    |       | TCSCC0        | 03     | TS1A1B | 01       | 1    | TQ2    | A3               |       | 02A                 |                    |                    |        |
| 16934         |        | XA140     | 04                              |   |        |           |     |             |       |      |       | TXCAZA        | 03     | TXCAZ0 | 01       | 1    | TQ2    | A2               |       | 04A                 |                    |                    |        |
| 05156         |        | XA140     | 05                              |   | XA140  | 11        |     |             | 16B   | 9    |       | SPI011        | 25     | TXCAZ0 | 01       | 2    | TQ2    | A2               |       | 03B                 |                    |                    |        |
| 14039         |        | XA140     | 06                              |   |        |           |     |             |       |      |       | TMC110        | 02     | TMC110 | 00       | 1    | TQ2    | A1               |       | 05A                 | TMCL*(M4+ TMNS0)   |                    |        |
| 10593         |        | XA140     | 07                              |   | XA446  | 07        |     |             | 16B   | 9    |       | TD1B0         | 01     | TS1A1B | 01       | 2    | TQ2    | A3               |       | 03A                 |                    |                    |        |
| 05159         |        | XA140     | 08                              |   | XA141  | 03        |     |             | 16B   | 9    |       | SPI011        | 28     | TMC110 | 01       | 1    | TQ2    | A1               |       | 06A                 |                    |                    |        |
| 15601         |        | XA140     | 09                              |   |        |           |     |             |       |      |       | TS1A1B        | 04     | TS1A1B | 00       | 1    | TQ2    | A3               |       | 04B                 | SPECIAL ADD.01-A   |                    |        |
| 14036         |        | XA140     | 10                              |   | XA142  | 06        |     |             | 16B   | 9    |       | TMC11A        | 01     | TMC110 | 01       | 2    | TQ2    | A1               |       | 07A                 |                    |                    |        |
| 05157         |        | XA140     | 11                              |   | XA141  | 11        |     |             | 16B   | 9    |       | SPI011        | 26     | TCBCA0 | 01       | 1    | TQ2    | A4               |       | 05B                 |                    |                    |        |
| 00350         |        | XA140     | 12                              |   |        |           |     |             |       |      |       | +5V           | 01     |        |          |      | TQ2    |                  |       |                     |                    |                    |        |
| CONNECTOR     |        | XA140     | CONTINUED ON THE NEXT PAGE **** |   |        |           |     |             |       |      |       |               |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA140  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 70

| UNIT NO   | PREFIX | FROM      |     |      | TO     |           |     | MULTI GROUP | CODE | UNIT | IDENT | SIGNAL | SPQ NO | EQUATION | TERM | GROUP | CAT OP CHIP TYPE | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION  | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|-------------|------|------|-------|--------|--------|----------|------|-------|------------------|---------------------|--------------------|---------------------|--------|
|   |        | CONNECTOR | PIN | SMFG | PREFIX | CONNECTOR | PIN |             |      |      |       |        |        |          |      |       |                  |                     |                    |                     |        |
| 09506   |        | XA140     | 13  |      | XA146  | 72        |     | 168         | 9    |      |       | TCBCAA | 01     | TCBCA0   | 01   | 2     | TQ2              | A4                  | 06B                |                     |        |
| 17015   |        | XA140     | 14  |      | XA143  | 24        |     | 168         | 9    |      |       | TXC300 | 01     | TXC300   | 00   | 1     | TQ2              | B2                  | 09A                | ORED DATA IN (I1    |        |
| 09512   |        | XA140     | 15  |      | XA340  | 17        |     | 168         | 9    |      |       | TCBCA0 | 05     | TCBCA0   | 00   | 1     | TQ2              | A4                  | 07B                | BOOTSTRAP.SHIFT     |        |
| 01899   |        | XA140     | 16  |      |        |           |     |             |      |      |       | GND    | 01     |          |      |       | TQ2              |                     | 01B                |                     |        |
| 05162   |        | XA140     | 17  |      | XA140  | 26        |     | 168         | 9    |      |       | SP1011 | 31     | TBY2C0   | 01   | 1     | TQ2              | B3                  | 08B                |                     |        |
| 05161   |        | XA140     | 18  |      | XA342  | 27        |     | 168         | 9    |      |       | TXC12A | 02     | TXC300   | 01   | 1     | TQ2              | B2                  | 10A                |                     | C01    |
| 08287   |        | XA140     | 19  |      | XA137  | 50        |     | 168         | 9    |      |       | TBY2CA | 01     | TBY2C0   | 01   | 2     | TQ2              | B3                  | 09B                |                     |        |
| 17014   |        | XA140     | 20  |      |        |           |     |             |      |      |       | TXC30A | 02     | TXC300   | 01   | 2     | TQ2              | B2                  | 11A                |                     |        |
| 09290   |        | XA140     | 21  |      | XA127  | 42        |     | 168         | 9    |      |       | TBY2C0 | 01     | TBY2C0   | 00   | 1     | TQ2              | B3                  | 10B                | BYTE 2 COMPARE B    |        |
| 16598   |        | XA140     | 22  |      | XA142  | 13        |     | 168         | 9    |      |       | TXC20A | 01     | TXC20A   | 00   | 1     | TQ2              | B1                  | 12A                | COUNT ONE.(I1+I2    |        |
| 14627   |        | XA140     | 23  |      |        |           |     |             |      |      |       | TN010A | 02     | TS01L0   | 01   | 1     | TQ2              | B4                  | 11B                |                     |        |
| 18956   |        | XA140     | 24  |      | XA143  | 13        |     | 168         | 9    |      |       | TXC1BQ | 05     | TXC20A   | 01   | 1     | TQ2              | B1                  | 13A                |                     |        |
| 09081   |        | XA140     | 25  |      |        |           |     |             |      |      |       | TBRCAA | 02     | TS01L0   | 01   | 2     | TQ2              | B4                  | 12B                |                     |        |
| 05163   |        | XA140     | 26  |      | XA141  | 26        |     | 168         | 9    |      |       | SP1011 | 32     | TXC20A   | 01   | 2     | TQ2              | B1                  | 14A                |                     |        |
| 15797   |        | XA140     | 27  |      | XA305  | 71        |     | 168         | 9    |      |       | TS01L0 | 01     | TS01L0   | 00   | 1     | TQ2              | B4                  | 13B                | SOI:LATCH,BURST C   |        |
| 00351   |        | XA140     | 28  |      |        |           |     |             |      |      |       | +5V    | 01     |          |      |       | TQ2              |                     |                    |                     |        |
| 08934   |        | XA140     | 29  |      | XA144  | 01        |     | 168         | 9    |      |       | TBLE2P | 02     | TBL13A   | 01   | 1     | TQ2              | C3                  | 14B                |                     |        |
| 09056   |        | XA140     | 30  |      |        |           |     |             |      |      |       | TBL1A0 | 02     | TBL1A0   | 00   | 1     | TQ2              | C2                  | 15A                | SET TBLE1           |        |
| 08945   |        | XA140     | 31  |      | XA137  | 29        |     | 168         | 9    |      |       | TBLE3P | 05     | TBL13A   | 01   | 2     | TQ2              | C3                  | 15B                |                     |        |
| 01900   |        | XA140     | 32  |      |        |           |     |             |      |      |       | GND    | 01     |          |      |       | TQ2              |                     | 20B                |                     |        |
| 09061   |        | XA140     | 33  |      | XA138  | 31        |     | 168         | 9    |      |       | TBL13A | 01     | TBL13A   | 00   | 1     | TQ2              | C3                  | 16B                | INHIBIT BLE1 FRQ    |        |
| 09060   |        | XA140     | 34  |      |        |           |     |             |      |      |       | TBL12A | 02     | TBL1A0   | 01   | 1     | TQ2              | C2                  | 16A                |                     |        |
| 10590   |        | XA140     | 35  |      |        |           |     |             |      |      |       | T0A0B0 | 03     | TSA0BA   | 01   | 1     | TQ2              | C4                  | 17B                |                     |        |
| 09057   |        | XA140     | 36  |      | XA144  | 09        |     | 168         | 9    |      |       | TBL11A | 01     | TBL1A0   | 01   | 2     | TQ2              | C2                  | 17A                |                     |        |
| 09882   |        | XA140     | 37  |      | XA140  | 03        |     | 168         | 9    |      |       | TCSCC0 | 02     | TSA0BA   | 01   | 2     | TQ2              | C4                  | 18B                |                     |        |
| 09275   |        | XA140     | 38  |      | XA245  | 62        |     | 168         | 9    |      |       | TBYCAA | 01     | TBYCAA   | 00   | 1     | TQ2              | C1                  | 18A                | S14.M3.MEM PE*-AG01 |        |
| 15595   |        | XA140     | 39  |      |        |           |     |             |      |      |       | TSA0BA | 04     | TSA0BA   | 00   | 1     | TQ2              | C4                  | 19B                | SPECIAL ADD.00-A    |        |
| 16135   |        | XA140     | 40  |      | XA345  | 10        |     | 168         | 9    |      |       | TS14BQ | 01     | TBYCAA   | 01   | 1     | TQ2              | C1                  | 19A                |                     |        |
| 08978   |        | XA140     | 41  |      | XA140  | 48        |     | 168         | 9    |      |       | TBLTAA | 02     | TBLX30   | 01   | 1     | TQ2              | D3                  | 22B                |                     |        |
| 09681   |        | XA140     | 42  |      | XA149  | 42        |     | 168         | 9    |      |       | TCD160 | 03     | TBYCAA   | 01   | 2     | TQ2              | C1                  | 20A                |                     |        |
| 08986   |        | XA140     | 43  |      | XA350  | 63        |     | 168         | 9    |      |       | TBLT3A | 01     | TBLX30   | 01   | 2     | TQ2              | D3                  | 23B                |                     |        |
| 01901   |        | XA140     | 44  |      |        |           |     |             |      |      |       | GND    | 01     |          |      |       | TQ2              |                     | 21B                |                     |        |
| 08998   |        | XA140     | 45  |      |        |           |     |             |      |      |       | TBLX30 | 04     | TBLX30   | 00   | 1     | TQ2              | D3                  | 24B                | XFER CONT GRP 3     |        |
| 08994   |        | XA140     | 46  |      |        |           |     |             |      |      |       | TBLX20 | 04     | TBLX20   | 00   | 1     | TQ2              | D2                  | 21A                | XFER CONT GRP 2     |        |
| 14664   |        | XA140     | 47  |      | XA147  | 55        |     | 168         | 9    |      |       | TPEM1A | 03     | TPETK0   | 01   | 1     | TQ2              | D4                  | 25B                |                     |        |
| 08979   |        | XA140     | 48  |      | XA140  | 56        |     | 168         | 9    |      |       | TBLTAA | 03     | TBLX20   | 01   | 1     | TQ2              | D2                  | 22A                |                     |        |
| 14630   |        | XA140     | 49  |      | XA317  | 76        |     | 168         | 9    |      |       | TPEBMP | 01     | TPETK0   | 01   | 2     | TQ2              | D4                  | 26B                |                     |        |
| 08985   |        | XA140     | 50  |      |        |           |     |             |      |      |       | TBLT2A | 02     | TBLX20   | 01   | 2     | TQ2              | D2                  | 23A                |                     |        |
| 14696   |        | XA140     | 51  |      | XA332  | 05        |     | 168         | 9    |      |       | TPETK0 | 01     | TPETK0   | 00   | 1     | TQ2              | D4                  | 27B                | BASE MEM PE         |        |
| 08990   |        | XA140     | 52  |      |        |           |     |             |      |      |       | TBLX10 | 03     | TBLX10   | 00   | 1     | TQ2              | D1                  | 24A                | XFER CONT GRP 1     |        |
| 15604   |        | XA140     | 53  |      | XA141  | 51        |     | 168         | 9    |      |       | TSA1B0 | 03     | TOFR1A   | 01   | 1     | TQ2              | E3                  | 28B                |                     |        |
| 08982   |        | XA140     | 54  |      | XA350  | 51        |     | 168         | 9    |      |       | TBLT1A | 01     | TBLX10   | 01   | 1     | TQ2              | D1                  | 25A                |                     |        |
| 17037   |        | XA140     | 55  |      | XA140  | 59        |     | 168         | 9    |      |       | TOFRB0 | 01     | TOFR1A   | 01   | 2     | TQ2              | E3                  | 29B                |                     |        |
| 08980   |        | XA140     | 56  |      | XA350  | 45        |     | 168         | 9    |      |       | TBLTAA | 04     | TBLX10   | 01   | 2     | TQ2              | D1                  | 26A                |                     |        |
| 17055   |        | XA140     | 57  |      |        |           |     |             |      |      |       | TOFR1A | 02     | TOFR1A   | 00   | 1     | TQ2              | E3                  | 30B                | OFR ADD 01-S28      |        |
| 01902   |        | XA140     | 58  |      |        |           |     |             |      |      |       | GND    | 01     |          |      |       | TQ2              |                     | 27A                |                     |        |
| 17038   |        | XA140     | 59  |      | XA140  | 62        |     | 168         | 9    |      |       | TOFRB0 | 02     | TOFR2A   | 01   | 1     | TQ2              | E4                  | 31B                |                     |        |
| 17050   |        | XA140     | 60  |      | XA144  | 62        |     | 168         | 9    |      |       | TOFR0A | 02     | TOFR0A   | 00   | 1     | TQ2              | E2                  | 28A                | OFR TO ADDRESS Z    |        |
| 15811   |        | XA140     | 61  |      | XA319  | 69        |     | 168         | 9    |      |       | TSA2B0 | 02     | TOFR2A   | 01   | 2     | TQ2              | E4                  | 32B                |                     |        |
| 17039   |        | XA140     | 62  |      | XA140  | 79        |     | 168         | 9    |      |       | TOFRB0 | 03     | TOFR0A   | 01   | 1     | TQ2              | E2                  | 29A                |                     |        |
| CONNECTOR (XA140) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |             |      |      |       |        |        |          |      |       |                  |                     |                    |                     |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA140  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 71

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | PKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION                  | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|-------------------------------------|--------|
|   | PREFIX | CONNECTOR | PIN | TYPE | PREFIX | CONNECTOR | PIN | TYPE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                                     |        |
| 17056   |        | XA140     | 63  |      |        | XA144     | 55  |      |             | 16B  | 9     |       | TOFR2A | 01     | TOFR2A   | 00   | 1      | TQ2              | E4    |                     | 33B                | OFR ADD 02-S28                      |        |
| 15596   |        | XA140     | 64  |      |        | XA142     | 30  |      |             | 16B  | 9     |       | TSA080 | 01     | TOFROA   | 01   | 2      | TQ2              | E2    |                     | 33A                |                                     |        |
| 13348   |        | XA140     | 65  |      |        |           |     |      |             |      |       |       | TINDBS | 03     | TINDBR   | 00   | 1      | TQ2              | F3    |                     | 34B                | SEL M1, DATA IN                     |        |
| 14484   |        | XA140     | 66  |      |        | XA151     | 18  |      |             | 16B  | 9     |       | TM0130 | 01     | TM0130   | 01   | 1      | TQ2              | E1    |                     | 31A                |                                     |        |
| 01903   |        | XA140     | 67  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                                     |        |
| 14453   |        | XA140     | 68  |      |        |           |     |      |             |      |       |       | TM01BA | 02     | TM0130   | 01   | 1      | TQ2              | E1    |                     | 32A                |                                     |        |
| 13344   |        | XA140     | 69  |      |        | XA138     | 53  |      |             | 16B  | 9     |       | TINDBR | 01     | TINDBR   | 00   | 1      | TQ2              | F3    |                     | 35A                | CLOCK . ORED DAT                    |        |
| 14449   |        | XA140     | 70  |      |        |           |     |      |             |      |       |       | TM01AA | 02     | TM0130   | 01   | 2      | TQ2              | E1    |                     | 33A                |                                     |        |
| 05144   |        | XA140     | 71  |      |        | XA138     | 64  |      |             | 16B  | 9     |       | SPI011 | 13     | TCDENA   | 01   | 1      | TQ2              | F2    |                     | 36A                | COMMAND + ENABLE                    |        |
| 09641   |        | XA140     | 72  |      |        |           |     |      |             |      |       |       | TCDENA | 02     | TCDENA   | 00   | 1      | TQ2              | F2    |                     | 34A                |                                     |        |
| 09643   |        | XA140     | 73  |      |        | XA141     | 75  |      |             | 16B  | 9     |       | TCDENO | 02     | TCDENA   | 01   | 2      | TQ2              | F2    |                     | 36B                |                                     |        |
| 16229   |        | XA140     | 74  |      |        | XA342     | 77  |      |             | 16B  | 9     |       | TS176A | 01     | TINDBR   | 01   | 2      | TQ2              | F3    |                     | 35B                |                                     |        |
| 17027   |        | XA140     | 75  |      |        | XA122     | 38  |      |             | 16B  | 9     |       | TOFRAA | 02     | TOFRAA   | 00   | 1      | TQ2              | F1    |                     | 37B                | OFR CMD                             |        |
| 15954   |        | XA140     | 76  |      |        | XA342     | 65  |      |             | 16B  | 9     |       | TS072A | 01     | TWTG10   | 01   | 1      | TQ2              | F4    |                     | 37A                |                                     |        |
| 05143   |        | XA140     | 77  |      |        | XA140     | 71  |      |             | 16B  | 9     |       | SPI011 | 12     | TOFRAA   | 01   | 1      | TQ2              | F1    |                     | 38B                |                                     |        |
| 16819   |        | XA140     | 78  |      |        | XA247     | 24  |      |             | 16B  | 9     |       | TWBXAA | 02     | TWTG10   | 01   | 2      | TQ2              | F4    |                     | 38A                |                                     |        |
| 17040   |        | XA140     | 79  |      |        | XA340     | 03  |      |             | 16B  | 9     |       | TOFR80 | 04     | TOFRAA   | 01   | 2      | TQ2              | F1    |                     | 39B                |                                     |        |
| 16908   |        | XA140     | 80  |      |        | XA138     | 78  |      |             | 16B  | 9     |       | TWTG10 | 01     | TWTG10   | 00   | 1      | TQ2              | F4    |                     | 39A                | S24.OFR + WORD M                    |        |
| 14051   |        | XA141     | 01  |      |        |           |     |      |             |      |       |       | TMC210 | 02     | TMC210   | 00   | 1      | TQ2              | A2    |                     | 02B                | TMC1 + TMC1*.2                      |        |
| 01904   |        | XA141     | 02  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                                     |        |
| 05160   |        | XA141     | 03  |      |        | XA140     | 17  |      |             | 16B  | 9     |       | SPI011 | 29     | TXC30A   | 01   | 1      | TQ2              | A3    |                     | 02A                | B02                                 |        |
| 14028   |        | XA141     | 04  |      |        | XA142     | 03  |      |             | 16B  | 9     |       | TMC1BP | 01     | TMC210   | 01   | 1      | TQ2              | A2    |                     | 04A                |                                     |        |
| 14052   |        | XA141     | 05  |      |        | XA142     | 09  |      |             | 16B  | 9     |       | TMC22A | 01     | TMC210   | 01   | 2      | TQ2              | A2    |                     | 03B                | I2.COUNTER = 0                      | B02    |
| 16966   |        | XA141     | 06  |      |        | XA140     | 18  |      |             | 16B  | 9     |       | TXC12A | 01     | TXC12A   | 00   | 1      | TQ2              | A1    |                     | 05A                |                                     |        |
| 16995   |        | XA141     | 07  |      |        | XA145     | 70  |      |             | 16B  | 9     |       | TXC2C0 | 01     | TXC30A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                                     |        |
| 13579   |        | XA141     | 08  |      |        | XA146     | 20  |      |             | 16B  | 9     |       | T120BQ | 06     | TXC12A   | 01   | 1      | TQ2              | A1    |                     | 06A                |                                     |        |
| 17013   |        | XA141     | 09  |      |        | XA140     | 20  |      |             | 16B  | 9     |       | TXC30A | 01     | TXC30A   | 00   | 1      | TQ2              | A3    |                     | 04B                | COUNT 2 (I1+I2+I                    |        |
| 16936   |        | XA141     | 10  |      |        | XA143     | 48  |      |             | 16B  | 9     |       | TXCAZ0 | 02     | TXC12A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                                     |        |
| 05158   |        | XA141     | 11  |      |        | XA140     | 08  |      |             | 16B  | 9     |       | SPI011 | 27     | TXC7B0   | 01   | 1      | TQ2              | A4    |                     | 05B                |                                     |        |
| 00352   |        | XA141     | 12  |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                                     |        |
| 17018   |        | XA141     | 13  |      |        |           |     |      |             |      |       |       | TXC7BA | 02     | TXC7B0   | 01   | 2      | TQ2              | A4    |                     | 06B                | BTS 1* . BTS 2                      |        |
| 09298   |        | XA141     | 14  |      |        |           |     |      |             |      |       |       | TBZZI0 | 02     | TBZZI0   | 00   | 1      | TQ2              | B2    |                     | 09A                |                                     |        |
| 17022   |        | XA141     | 15  |      |        | XA146     | 19  |      |             | 16B  | 9     |       | TXC7B0 | 04     | TXC7B0   | 00   | 1      | TQ2              | A4    |                     | 07B                | COUNT = 7 -0                        |        |
| 01905   |        | XA141     | 16  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                                     |        |
| 05186   |        | XA141     | 17  |      |        | XA141     | 23  |      |             | 16B  | 9     |       | SPI012 | 21     | TMFTA0   | 01   | 1      | TQ2              | B3    |                     | 08B                | C05                                 |        |
| 09293   |        | XA141     | 18  |      |        | XA142     | 55  |      |             | 16B  | 9     |       | TBZZIA | 02     | TBZZI0   | 01   | 1      | TQ2              | B2    |                     | 10A                |                                     |        |
| 14116   |        | XA141     | 19  |      |        | XA142     | 22  |      |             | 16B  | 9     |       | TMFTA0 | 01     | TMFTA0   | 01   | 2      | TQ2              | B3    |                     | 09B                | C01                                 |        |
| 05165   |        | XA141     | 20  |      |        | XA147     | 52  |      |             | 16B  | 9     |       | SPI011 | 34     | TBZZI0   | 01   | 2      | TQ2              | B2    |                     | 11A                |                                     |        |
| 14122   |        | XA141     | 21  |      |        |           |     |      |             |      |       |       | TMFTA0 | 05     | TMFTA0   | 00   | 1      | TQ2              | B3    |                     | 10B                | MODE FIELD TRANS<br>BYTE 2 TRANSFER |        |
| 09319   |        | XA141     | 22  |      |        |           |     |      |             |      |       |       | TB2XAA | 02     | TB2XAA   | 00   | 1      | TQ2              | B1    |                     | 12A                |                                     |        |
| 05188   |        | XA141     | 23  |      |        | XA142     | 23  |      |             | 16B  | 9     |       | SPI012 | 23     | TDECAA   | 01   | 1      | TQ2              | B4    |                     | 11B                |                                     |        |
| 09329   |        | XA141     | 24  |      |        |           |     |      |             |      |       |       | TB2XAA | 10     | TB2XAA   | 01   | 1      | TQ2              | B1    |                     | 13A                |                                     |        |
| 10700   |        | XA141     | 25  |      |        | XA206     | 59  |      |             | 16B  | 9     |       | TDECAA | 02     | TDECAA   | 01   | 2      | TQ2              | B4    |                     | 12B                |                                     |        |
| 05164   |        | XA141     | 26  |      |        | XA141     | 20  |      |             | 16B  | 9     |       | SPI011 | 33     | TB2XAA   | 01   | 2      | TQ2              | B1    |                     | 14A                |                                     |        |
| 10696   |        | XA141     | 27  |      |        | XA142     | 42  |      |             | 16B  | 9     |       | TDECAA | 02     | TDECAA   | 00   | 1      | TQ2              | B4    |                     | 13B                | DEC COMMAND FROM                    |        |
| 00353   |        | XA141     | 28  |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                                     |        |
| 05187   |        | XA141     | 29  |      |        | XA205     | 29  |      |             | 16B  | 9     |       | TS2100 | 005    | TER5AA   | 01   | 1      | TQ2              | C3    |                     | 14B                | C05                                 |        |
| 11283   |        | XA141     | 30  |      |        | XA139     | 35  |      |             | 16B  | 9     |       | TD0PA0 | 01     | TD0PA0   | 00   | 1      | TQ2              | C2    |                     | 15A                |                                     |        |
| CONNECTOR (XA141) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                                     |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA141  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 72

| RECORD NUMBER | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNALS - WIRE | SIGNAL | SEQ NO  | LOCATION | TERM | PAIRS | CRT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|----------------|--------|---------|----------|------|-------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |                |        |         |          |      |       |                  |       |                     |                    |                    |        |
| 05099         |        | XA141     | 31  |        |           |     |             |      |       |       | TS00BP         | 09     | TER5AA  | 01       | 2    | TQ2   | C3               |       | 15B                 |                    | C05                |        |
| 01906         |        | XA141     | 32  |        |           |     |             |      |       |       | GND            | 01     |         |          |      | TQ2   |                  |       | 20B                 |                    |                    |        |
| 07851         |        | XA141     | 33  |        | XA250     | 77  |             | 16B  | 9     |       | TER5AA         | 01     | TER5AA  | 00       | 1    | TQ2   | C3               |       | 16B                 |                    | C05                |        |
| 16933         |        | XA141     | 34  |        | XA140     | 04  |             | 16B  | 9     |       | TXCAZA         | 02     | TDOPA0  | 01       | 1    | TQ2   | C2               |       | 16A                 |                    |                    |        |
| 08948         |        | XA141     | 35  |        | XA148     | 31  |             | 16B  | 9     |       | TBLE30         | 02     | TBL21A  | 01       | 1    | TQ2   | C4               |       | 17A                 |                    |                    |        |
| 09640         |        | XA141     | 36  |        | XA140     | 72  |             | 16B  | 9     |       | TCDENA         | 01     | TDOPA0  | 01       | 2    | TQ2   | C2               |       | 17A                 |                    |                    |        |
| 08939         |        | XA141     | 37  |        | XA148     | 37  |             | 16B  | 9     |       | TBLE20         | 01     | TBL21A  | 01       | 2    | TQ2   | C4               |       | 18B                 |                    |                    |        |
| 14369         |        | XA141     | 38  |        | XA251     | 15  |             | 16B  | 9     |       | TMTENA         | 01     | TMTENA  | 00       | 1    | TQ2   | C1               |       | 18A                 | S08+S10+S12+S14+S  |                    |        |
| 09065         |        | XA141     | 39  |        | XA146     | 31  |             | 16B  | 9     |       | TBL21A         | 01     | TBL21A  | 00       | 1    | TQ2   | C4               |       | 19B                 | BLE2 SET,REMAIN    |                    |        |
| 14466         |        | XA141     | 40  |        | XA115     | 18  |             | 16B  | 9     |       | TM01BQ         | 08     | TMTENA  | 01       | 1    | TQ2   | C1               |       | 19A                 |                    |                    |        |
| 05199         |        | XA141     | 41  |        | XA120     | 62  |             | 16B  | 9     |       | SPI012         | 34     | TOFRA0  | 01       | 1    | TQ2   | D3               |       | 22B                 |                    |                    |        |
| 13671         |        | XA141     | 42  |        | XA136     | 56  |             | 16B  | 9     |       | TKAAAB         | 03     | TMTENA  | 01       | 2    | TQ2   | C1               |       | 20A                 |                    |                    |        |
| 03811         |        | XA141     | 43  |        | XA203     | 25  |             | 16B  | 9     |       | JOFRAD4        | 03     | TOFRA0  | 01       | 2    | TQ2   | D3               |       | 23B                 | OFR COMMAND        |                    |        |
| 01907         |        | XA141     | 44  |        |           |     |             |      |       |       | GND            | 01     |         |          |      | TQ2   |                  |       | 21B                 |                    |                    |        |
| 17034         |        | XA141     | 45  |        | XA112     | 36  |             | 16B  | 9     |       | TOFRA0         | 06     | TOFRA0  | 00       | 1    | TQ2   | D3               |       | 24B                 | OFR CMD            |                    |        |
| 09072         |        | XA141     | 46  |        |           |     |             |      |       |       | TBMAAA         | 02     | TBMAAA  | 00       | 1    | TQ2   | D2               |       | 21A                 | 1ST M3 FF NOT M3   |                    |        |
| 15600         |        | XA141     | 47  |        | XA140     | 09  |             | 16B  | 9     |       | TSA18A         | 03     | TSA180  | 01       | 1    | TQ2   | D4               |       | 25B                 | OFR COMMAND        |                    |        |
| 09074         |        | XA141     | 48  |        |           |     |             |      |       |       | TBMAAA         | 02     | TBMAAA  | 01       | 1    | TQ2   | D2               |       | 22A                 |                    |                    |        |
| 05198         |        | XA141     | 49  |        | XA141     | 41  |             | 16B  | 9     |       | SPI012         | 33     | TSA180  | 01       | 2    | TQ2   | D4               |       | 26B                 |                    |                    |        |
| 09202         |        | XA141     | 50  |        | XA346     | 19  |             | 16B  | 9     |       | TBST2P         | 04     | TBMAAA  | 01       | 2    | TQ2   | D2               |       | 23A                 |                    |                    |        |
| 15605         |        | XA141     | 51  |        |           |     |             |      |       |       | TSA180         | 04     | TSA180  | 00       | 1    | TQ2   | D4               |       | 27B                 | SPECIAL ADD.01-0   |                    |        |
| 15606         |        | XA141     | 52  |        | XA149     | 25  |             | 16B  | 9     |       | TSA2BA         | 01     | TSA2BA  | 00       | 1    | TQ2   | D1               |       | 24A                 | SPECIAL ADD.02-A   |                    |        |
| 14900         |        | XA141     | 53  |        |           |     |             |      |       |       | TPS21A         | 02     | TPS200  | 01       | 1    | TQ2   | E3               |       | 28B                 |                    |                    |        |
| 09881         |        | XA141     | 54  |        | XA140     | 37  |             | 16B  | 9     |       | TCSCCO         | 01     | TSA2BA  | 01       | 1    | TQ2   | D1               |       | 25A                 |                    |                    |        |
| 13597         |        | XA141     | 55  |        | XA206     | 31  |             | 16B  | 9     |       | Y1212A         | 01     | TPS200  | 01       | 2    | TQ2   | E3               |       | 29B                 |                    |                    |        |
| 10598         |        | XA141     | 56  |        | XA446     | 24  |             | 16B  | 9     |       | TDA2B0         | 01     | TSA2BA  | 01       | 2    | TQ2   | D1               |       | 26A                 |                    |                    |        |
| 14897         |        | XA141     | 57  |        | XA142     | 49  |             | 16B  | 9     |       | TPS200         | 01     | TPS200  | 00       | 1    | TQ2   | E3               |       | 30B                 | BYTE COUNT 2 SET   |                    |        |
| 01908         |        | XA141     | 58  |        |           |     |             |      |       |       | GND            | 01     |         |          |      | TQ2   |                  |       | 27A                 |                    |                    |        |
| 12542         |        | XA141     | 59  |        |           |     |             |      |       |       | TENB2A         | 02     | TENB10  | 01       | 1    | TQ2   | E4               |       | 31B                 |                    |                    |        |
| 14883         |        | XA141     | 60  |        |           |     |             |      |       |       | TPS10A         | 03     | TPS10A  | 00       | 1    | TQ2   | E2               |       | 28A                 | BYTE COUNT 1 SET   |                    |        |
| 14204         |        | XA141     | 61  |        | XA141     | 65  |             | 16B  | 9     |       | TMRJAA4        | 19     | TENB10  | 01       | 2    | TQ2   | E4               |       | 32B                 |                    |                    |        |
| 14885         |        | XA141     | 62  |        |           |     |             |      |       |       | TPS100         | 02     | TPS10A  | 01       | 1    | TQ2   | E2               |       | 29A                 |                    |                    |        |
| 12539         |        | XA141     | 63  |        | XA139     | 75  |             | 16B  | 9     |       | TENB10         | 01     | TENB10  | 00       | 1    | TQ2   | E4               |       | 33B                 | CLOCK IN ENABLE-   |                    |        |
| 05174         |        | XA141     | 64  |        | XA143     | 63  |             | 16B  | 9     |       | SPI012         | 09     | TPS10A  | 01       | 2    | TQ2   | E2               |       | 30A                 |                    |                    |        |
| 14205         |        | XA141     | 65  |        | XA138     | 49  |             | 16B  | 9     |       | TMRJAA4        | 20     | TMC3A0  | 01       | 1    | TQ2   | F3               |       | 34B                 |                    | C05                |        |
| 17045         |        | XA141     | 66  |        |           |     |             |      |       |       | TOFRDA         | 02     | TOFRDA  | 00       | 1    | TQ2   | E1               |       | 31A                 | SPEC OFR + DEV C   |                    |        |
| 01909         |        | XA141     | 67  |        |           |     |             |      |       |       | GND            | 01     |         |          |      | TQ2   |                  |       | 40A                 |                    |                    |        |
| 17046         |        | XA141     | 68  |        | XA144     | 57  |             | 16B  | 9     |       | TOFRD0         | 01     | TOFRDA  | 01       | 1    | TQ2   | E1               |       | 32A                 |                    |                    |        |
| 14057         |        | XA141     | 69  |        | XA149     | 48  |             | 16B  | 9     |       | TMC3A0         | 02     | TMC3A0  | 00       | 1    | TQ2   | F3               |       | 35A                 | COUNT 1-2-OSC-0    |                    |        |
| 05173         |        | XA141     | 70  |        | XA141     | 64  |             | 16B  | 9     |       | SPI012         | 08     | TOFRDA  | 01       | 2    | TQ2   | E1               |       | 33A                 |                    |                    |        |
| 09132         |        | XA141     | 71  |        | XA116     | 65  |             | 16B  | 9     |       | TBRSTQ         | 05     | TBR SUA | 01       | 1    | TQ2   | F2               |       | 36A                 |                    |                    |        |
| 09140         |        | XA141     | 72  |        | XA142     | 37  |             | 16B  | 9     |       | TBR SUA        | 06     | TBR SUA | 00       | 1    | TQ2   | F2               |       | 34A                 | BURST MODE-A UNL   |                    |        |
| 05169         |        | XA141     | 73  |        | XA141     | 78  |             | 16B  | 9     |       | SPI012         | 04     | TBR SUA | 01       | 2    | TQ2   | F2               |       | 36B                 |                    |                    |        |
| 14055         |        | XA141     | 74  |        |           |     |             |      |       |       | TMC3AA         | 02     | TMC3A0  | 01       | 2    | TQ2   | F3               |       | 35B                 |                    |                    |        |
| 09644         |        | XA141     | 75  |        | XA443     | 04  |             | 16B  | 9     |       | TCDENO         | 03     | TCDENO  | 00       | 1    | TQ2   | F1               |       | 37B                 | COMMAND + ENABLE   |                    |        |
| 13746         |        | XA141     | 76  |        |           |     |             |      |       |       | TKADA0         | 02     | TKADAA  | 01       | 1    | TQ2   | F4               |       | 37A                 |                    |                    |        |
| 09740         |        | XA141     | 77  |        | XA147     | 19  |             | 16B  | 9     |       | TCM0BP         | 03     | TCDENO  | 01       | 1    | TQ2   | F1               |       | 38B                 |                    |                    |        |
| 05170         |        | XA141     | 78  |        | XA142     | 77  |             | 16B  | 9     |       | SPI012         | 05     | TKADAA  | 01       | 2    | TQ2   | F4               |       | 38A                 |                    |                    |        |
| 12527         |        | XA141     | 79  |        | XA137     | 77  |             | 16B  | 9     |       | TENBBP         | 03     | TCDENO  | 01       | 2    | TQ2   | F1               |       | 39B                 |                    |                    |        |
| 13744         |        | XA141     | 80  |        |           |     |             |      |       |       | TKADAA         | 02     | TKADAA  | 00       | 1    | TQ2   | F4               |       | 39A                 | CLK .ADD ACK       |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA142  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 73

| NUMBER    | PREFIX | CONNECTOR                       | PIN | NO. | PREFIX | CONNECTOR | PIN | NO. | MULTI GROUP | CODE | COLOR | IDENT | NO. | SIGNAL  | NO. | W      | H  | U | K   | CHIP TYPE | GROUP | POWER PLANE | ANCHOR | DESCRIPTION      |                  |
|-----------|--------|---------------------------------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|-----|---------|-----|--------|----|---|-----|-----------|-------|-------------|--------|------------------|------------------|
| 16976     |        | XA142                           | 01  |     |        | XA147     | 54  |     |             | 16B  | 9     |       |     | TXC15A  | 01  | TXC15A | 00 | 1 | TQ2 | A2        |       | 02B         |        | C1*(COMMAND + EN |                  |
| 01910     |        | XA142                           | 02  |     |        |           |     |     |             |      |       |       |     | GND     | 01  |        |    |   | TQ2 |           |       |             | 01A    |                  |                  |
| 14029     |        | XA142                           | 03  |     |        | XA142     | 10  |     |             | 16B  | 9     |       |     | TMC1BP  | 02  | TMC22A | 01 | 1 | TQ2 | A3        |       |             | 02A    |                  |                  |
| 09642     |        | XA142                           | 04  |     |        | XA140     | 73  |     |             | 16B  | 9     |       |     | TCDEN0  | 01  | TXC15A | 01 | 1 | TQ2 | A2        |       |             | 04A    |                  |                  |
| 16980     |        | XA142                           | 05  |     |        | XA143     | 09  |     |             | 16B  | 9     |       |     | TXC2BP  | 01  | TXC15A | 01 | 2 | TQ2 | A2        |       |             | 03B    |                  |                  |
| 14037     |        | XA142                           | 06  |     |        |           |     |     |             |      |       |       |     | TMC11A  | 02  | TMC11A | 00 | 1 | TQ2 | A1        |       |             | 05A    |                  | TMC1* (M4 + TMNS |
| 14047     |        | XA142                           | 07  |     |        | XA143     | 37  |     |             | 16B  | 9     |       |     | TMC2BQ  | 01  | TMC22A | 01 | 2 | TQ2 | A3        |       |             | 03A    |                  |                  |
| 14609     |        | XA142                           | 08  |     |        | XA143     | 20  |     |             | 16B  | 9     |       |     | TM4SNO  | 01  | TMC11A | 01 | 1 | TQ2 | A1        |       |             | 06A    |                  |                  |
| 14053     |        | XA142                           | 09  |     |        |           |     |     |             |      |       |       |     | TMC22A  | 02  | TMC22A | 00 | 1 | TQ2 | A3        |       |             | 04B    |                  | TMC2 REMAIN SET  |
| 14030     |        | XA142                           | 10  |     |        | XA143     | 21  |     |             | 16B  | 9     |       |     | TMC1BP  | 03  | TMC11A | 01 | 2 | TQ2 | A1        |       |             | 07A    |                  |                  |
| 05184     |        | XA142                           | 11  |     |        | XA142     | 17  |     |             | 16B  | 9     |       |     | SPIO12  | 19  | TXC200 | 01 | 1 | TQ2 | A4        |       |             | 05B    |                  |                  |
| 00354     |        | XA142                           | 12  |     |        |           |     |     |             |      |       |       |     | +5V     | 01  |        |    |   | TQ2 |           |       |             |        |                  |                  |
| 16999     |        | XA142                           | 13  |     |        |           |     |     |             |      |       |       |     | TXC2JA  | 02  | TXC200 | 01 | 2 | TQ2 | A4        |       |             | 06B    |                  |                  |
| 13302     |        | XA142                           | 14  |     |        |           |     |     |             |      |       |       |     | TILPEA  | 02  | TILPEA | 00 | 1 | TQ2 | B2        |       |             | 09A    |                  | CONTROLLED CLOCK |
| 17001     |        | XA142                           | 15  |     |        |           |     |     |             |      |       |       |     | TXC200  | 02  | TXC200 | 00 | 1 | TQ2 | A4        |       |             | 07B    |                  | ORED DATA INPUT- |
| 01911     |        | XA142                           | 16  |     |        |           |     |     |             |      |       |       |     | GND     | 01  |        |    |   | TQ2 |           |       |             | 01B    |                  |                  |
| 05185     |        | XA142                           | 17  |     |        | XA141     | 17  |     |             | 16B  | 9     |       |     | SPIO12  | 20  | TDECA0 | 01 | 1 | TQ2 | B3        |       |             | 08B    |                  |                  |
| 09216     |        | XA142                           | 18  |     |        | XA341     | 41  |     |             | 16B  | 9     |       |     | TBST20  | 04  | TILPEA | 01 | 1 | TQ2 | B2        |       |             | 10A    |                  |                  |
| 03730     |        | XA142                           | 19  |     |        | XA337     | 55  |     |             | 16B  | 9     |       |     | JDECAD4 | 02  | TDECA0 | 01 | 2 | TQ2 | B3        |       |             | 09B    |                  | DEC COMMAND      |
| 13414     |        | XA142                           | 20  |     |        | XA113     | 37  |     |             | 16B  | 9     |       |     | TIPBQ   | 01  | TILPEA | 01 | 2 | TQ2 | B2        |       |             | 11A    |                  |                  |
| 10699     |        | XA142                           | 21  |     |        | XA141     | 25  |     |             | 16B  | 9     |       |     | TDECA0  | 01  | TDECA0 | 00 | 1 | TQ2 | B3        |       |             | 10B    |                  | DEC COMMAND      |
| 14117     |        | XA142                           | 22  |     |        |           |     |     |             |      |       |       |     | TMFTAA  | 02  | TMFTAA | 00 | 1 | TQ2 | B1        |       |             | 12A    |                  | MODE FIELD TRANS |
| 05189     |        | XA142                           | 23  |     |        | XA143     | 27  |     |             | 16B  | 9     |       |     | SPIO12  | 24  | TBY1C0 | 01 | 1 | TQ2 | B4        |       |             | 11B    |                  |                  |
| 08975     |        | XA142                           | 24  |     |        | XA350     | 60  |     |             | 16B  | 9     |       |     | TBLRCA  | 01  | TMFTAA | 01 | 1 | TQ2 | B1        |       |             | 13A    |                  |                  |
| 09282     |        | XA142                           | 25  |     |        | XA137     | 39  |     |             | 16B  | 9     |       |     | TBY1CA  | 01  | TBY1C0 | 01 | 2 | TQ2 | B4        |       |             | 12B    |                  |                  |
| 13895     |        | XA142                           | 26  |     |        | XA122     | 15  |     |             | 16B  | 9     |       |     | TKWXAO  | 02  | TMFTAA | 01 | 2 | TQ2 | B1        |       |             | 14A    |                  |                  |
| 09285     |        | XA142                           | 27  |     |        | XA127     | 29  |     |             | 16B  | 9     |       |     | TBY1C0  | 01  | TBY1C0 | 00 | 1 | TQ2 | B4        |       |             | 13B    |                  | BYTE 1 COMPARE-B |
| 00355     |        | XA142                           | 28  |     |        |           |     |     |             |      |       |       |     | +5V     | 01  |        |    |   | TQ2 |           |       |             |        |                  |                  |
| 16955     |        | XA142                           | 29  |     |        | XA140     | 24  |     |             | 16B  | 9     |       |     | TXC1BQ  | 04  | TXC16A | 01 | 1 | TQ2 | C3        |       |             | 14B    |                  |                  |
| 15597     |        | XA142                           | 30  |     |        |           |     |     |             |      |       |       |     | TSA0B0  | 02  | TSA0B0 | 00 | 1 | TQ2 | C2        |       |             | 15A    |                  | SPECIAL ADD.00-0 |
| 17003     |        | XA142                           | 31  |     |        | XA143     | 23  |     |             | 16B  | 9     |       |     | TXC3BP  | 02  | TXC16A | 01 | 2 | TQ2 | C3        |       |             | 15B    |                  |                  |
| 01912     |        | XA142                           | 32  |     |        |           |     |     |             |      |       |       |     | GND     | 01  |        |    |   | TQ2 |           |       |             | 20B    |                  |                  |
| 16979     |        | XA142                           | 33  |     |        |           |     |     |             |      |       |       |     | TXC16A  | 02  | TXC16A | 00 | 1 | TQ2 | C3        |       |             | 16B    |                  | RTC OSC.SET LOGI |
| 15594     |        | XA142                           | 34  |     |        | XA140     | 39  |     |             | 16B  | 9     |       |     | TSA0BA  | 03  | TSA0B0 | 01 | 1 | TQ2 | C2        |       |             | 16A    |                  |                  |
| 16938     |        | XA142                           | 35  |     |        | XA143     | 45  |     |             | 16B  | 9     |       |     | TXC0BP  | 01  | TNO10A | 01 | 1 | TQ2 | C4        |       |             | 17B    |                  |                  |
| 05191     |        | XA142                           | 36  |     |        | XA143     | 39  |     |             | 16B  | 9     |       |     | SPIO12  | 26  | TSA0B0 | 01 | 2 | TQ2 | C2        |       |             | 17A    |                  |                  |
| 09141     |        | XA142                           | 37  |     |        | XA149     | 49  |     |             | 16B  | 9     |       |     | TBR SUA | 07  | TNO10A | 01 | 2 | TQ2 | C4        |       |             | 18B    |                  |                  |
| 10693     |        | XA142                           | 38  |     |        | XA350     | 35  |     |             | 16B  | 9     |       |     | TDEBS0  | 02  | TDEBS0 | 00 | 1 | TQ2 | C1        |       |             | 18A    |                  | DEC + BOOTSTRAP  |
| 14626     |        | XA142                           | 39  |     |        | XA140     | 23  |     |             | 16B  | 9     |       |     | TNO10A  | 01  | TNO10A | 00 | 1 | TQ2 | C4        |       |             | 19B    |                  | NORMAL. NOT I O  |
| 09192     |        | XA142                           | 40  |     |        | XA116     | 08  |     |             | 16B  | 9     |       |     | TBST2A  | 05  | TDEBS0 | 01 | 1 | TQ2 | C1        |       |             | 19A    |                  |                  |
| 15939     |        | XA142                           | 41  |     |        | XA341     | 11  |     |             | 16B  | 9     |       |     | TS07BQ  | 03  | TPS11A | 01 | 1 | TQ2 | D3        |       |             | 22B    |                  |                  |
| 10697     |        | XA142                           | 42  |     |        | XA144     | 64  |     |             | 16B  | 9     |       |     | TDECAA  | 03  | TDEBS0 | 01 | 2 | TQ2 | C1        |       |             | 20A    |                  |                  |
| 16971     |        | XA142                           | 43  |     |        |           |     |     |             |      |       |       |     | TXC120  | 03  | TPS11A | 01 | 2 | TQ2 | D3        |       |             | 23B    |                  |                  |
| 01913     |        | XA142                           | 44  |     |        |           |     |     |             |      |       |       |     | GND     | 01  |        |    |   | TQ2 |           |       |             | 21B    |                  |                  |
| 14886     |        | XA142                           | 45  |     |        | XA137     | 57  |     |             | 16B  | 9     |       |     | TPS11A  | 01  | TPS11A | 00 | 1 | TQ2 | D3        |       |             | 24B    |                  | STATE 7.12       |
| 17025     |        | XA142                           | 46  |     |        |           |     |     |             |      |       |       |     | TXX30A  | 02  | TXX30A | 00 | 1 | TQ2 | D2        |       |             | 21A    |                  | COUNTER 3 CLK II |
| 05197     |        | XA142                           | 47  |     |        | XA141     | 49  |     |             | 16B  | 9     |       |     | SPIO12  | 32  | TPS20A | 01 | 1 | TQ2 | D4        |       |             | 25B    |                  |                  |
| 05196     |        | XA142                           | 48  |     |        | XA142     | 47  |     |             | 16B  | 9     |       |     | SPIO12  | 31  | TXX30A | 01 | 1 | TQ2 | D2        |       |             | 22A    |                  |                  |
| 14898     |        | XA142                           | 49  |     |        |           |     |     |             |      |       |       |     | TPS200  | 02  | TPS20A | 01 | 2 | TQ2 | D4        |       |             | 26B    |                  |                  |
| 10046     |        | XA142                           | 50  |     |        | XA136     | 46  |     |             | 16B  | 9     |       |     | TCOSAB  | 04  | TXX30A | 01 | 2 | TQ2 | D2        |       |             | 23A    |                  |                  |
| CONNECTOR | XA142  | CONTINUED ON THE NEXT PAGE **** |     |     |        |           |     |     |             |      |       |       |     |         |     |        |    |   |     |           |       |             |        |                  |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA142  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 74

| RECORD NUMBER                                     | FROM   |           |     |         | TO     |           |     |         | WIRE        |      |       |         | SIGNAL | SFG NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION                   | ECO NO |
|---|--------|-----------|-----|---------|--------|-----------|-----|---------|-------------|------|-------|---------|--------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE NO | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR | IDENT   |        |        |          |      |      |                  |       |                     |                    |                                      |        |
| 14896   |        | XA142     | 51  |         |        |           |     |         |             |      |       |         | TPS20A | 04     | TPS20A   | 00   | 1    | TQ2              | D4    |                     | 27B                | BYTE COUNT 2 SET<br>1ST M3 NO SECOND |        |
| 14341   |        | XA142     | 52  |         |        |           |     |         |             |      |       | TMS300  | 02     | TMS300 | 00       | 1    | TQ2  | D1               |       |                     | 24A                |                                      |        |
| 13316   |        | XA142     | 53  |         | XA338  | 11        |     |         | 168         | 9    |       | TINDA0  | 02     | TINDAA | 01       | 1    | TQ2  | E3               |       |                     |                    | 28B                                  |        |
| 05195   |        | XA142     | 54  |         | XA142  | 48        |     |         | 168         | 9    |       | SPI012  | 30     | TMS300 | 01       | 1    | TQ2  | D1               |       |                     |                    | 29A                                  |        |
| 09294   |        | XA142     | 55  |         | XA137  | 43        |     |         | 168         | 9    |       | TBZZIA  | 03     | TINDAA | 01       | 2    | TQ2  | E3               |       |                     |                    | 29B                                  |        |
| 14343   |        | XA142     | 56  |         |        |           |     |         |             |      |       | TMS31A  | 02     | TMS300 | 01       | 2    | TQ2  | D1               |       |                     |                    | 26A                                  |        |
| 13309   |        | XA142     | 57  |         |        |           |     |         |             |      |       | TINDAA  | 02     | TINDAA | 00       | 1    | TQ2  | E3               |       |                     |                    | 30B                                  |        |
| 01914   |        | XA142     | 58  |         |        |           |     |         |             |      |       | GND     | 01     |        |          |      | TQ2  |                  |       |                     |                    | 27A                                  |        |
| 09149   |        | XA142     | 59  |         | XA146  | 50        |     |         | 168         | 9    |       | TBR5U0  | 06     | TBRCAA | 01       | 1    | TQ2  | E4               |       |                     |                    | 31B                                  |        |
| 09094   |        | XA142     | 60  |         | XA146  | 24        |     |         | 168         | 9    |       | TBRRE0  | 01     | TBRRE0 | 00       | 1    | TQ2  | E2               |       |                     |                    | 28A                                  |        |
| 10033   |        | XA142     | 61  |         |        |           |     |         |             |      |       | TCOMPA  | 03     | TBRCAA | 01       | 2    | TQ2  | E4               |       |                     |                    | 32B                                  |        |
| 09101   |        | XA142     | 62  |         | XA144  | 21        |     |         | 168         | 9    |       | TBRRSA  | 01     | TBRRE0 | 01       | 1    | TQ2  | E2               |       |                     |                    | 29A                                  |        |
| 09080   |        | XA142     | 63  |         | XA140  | 25        |     |         | 168         | 9    |       | TBRCAA  | 01     | TBRCAA | 00       | 1    | TQ2  | E4               |       |                     |                    | 33B                                  |        |
| 12602   |        | XA142     | 64  |         | XA113  | 21        |     |         | 168         | 9    |       | TE08BP  | 01     | TBRRE0 | 01       | 2    | TQ2  | E2               |       |                     |                    | 30A                                  |        |
| 09770   |        | XA142     | 65  |         | XA135  | 68        |     |         | 168         | 9    |       | TCMW20  | 01     | TDLI3A | 01       | 1    | TQ2  | F3               |       |                     |                    | 34B                                  |        |
| 14891   |        | XA142     | 66  |         | XA137  | 59        |     |         | 168         | 9    |       | TPS13A  | 01     | TPS13A | 00       | 1    | TQ2  | E1               |       |                     |                    | 31A                                  |        |
| 01915   |        | XA142     | 67  |         |        |           |     |         |             |      |       | GND     | 01     |        |          |      | TQ2  |                  |       |                     |                    | 40A                                  |        |
| 13617   |        | XA142     | 68  |         | XA304  | 60        |     |         | 168         | 9    |       | TI23X0  | 01     | TPS13A | 01       | 1    | TQ2  | E1               |       |                     |                    | 32A                                  |        |
| 10969   |        | XA142     | 69  |         | XA349  | 10        |     |         | 168         | 9    |       | TDLI3A  | 01     | TDLI3A | 00       | 1    | TQ2  | F3               |       |                     |                    | 35A                                  |        |
| 13635   |        | XA142     | 70  |         | XA144  | 56        |     |         | 168         | 9    |       | TI308Q  | 01     | TPS13A | 01       | 2    | TQ2  | E1               |       |                     |                    | 33A                                  |        |
| 16963   |        | XA142     | 71  |         |        |           |     |         |             |      |       | TXC100  | 03     | TXC10A | 01       | 1    | TQ2  | F2               |       |                     |                    | 36A                                  |        |
| 16959   |        | XA142     | 72  |         | XA143  | 50        |     |         | 168         | 9    |       | TXC10A  | 01     | TXC10A | 00       | 1    | TQ2  | F2               |       |                     |                    | 34A                                  |        |
| 05172   |        | XA142     | 73  |         | XA141  | 70        |     |         | 168         | 9    |       | SPI012  | 07     | TXC10A | 01       | 2    | TQ2  | F2               |       |                     |                    | 36B                                  |        |
| 09758   |        | XA142     | 74  |         |        |           |     |         |             |      |       | TCMP2A  | 03     | TDLI3A | 01       | 2    | TQ2  | F3               |       |                     |                    | 35B                                  |        |
| 10041   |        | XA142     | 75  |         | XA113  | 70        |     |         | 168         | 9    |       | TCOSAA  | 05     | TCOSAA | 00       | 1    | TQ2  | F1               |       |                     |                    | 37B                                  |        |
| 09775   |        | XA142     | 76  |         | XA135  | 70        |     |         | 168         | 9    |       | TCMW40  | 01     | TDLI4A | 01       | 1    | TQ2  | F4               |       |                     |                    | 37A                                  |        |
| 05171   |        | XA142     | 77  |         | XA142  | 73        |     |         | 168         | 9    |       | SPI012  | 06     | TCOSAA | 01       | 1    | TQ2  | F1               |       |                     |                    | 38B                                  |        |
| 09761   |        | XA142     | 78  |         | XA136  | 69        |     |         | 168         | 9    |       | TCMP4A  | 01     | TDLI4A | 01       | 2    | TQ2  | F4               |       |                     |                    | 38A                                  |        |
| 20405   |        | XA142     | 79  |         | XA336  | 41        |     |         | 168         | 9    |       | TCK08J  | 01     | TCOSAA | 01       | 2    | TQ2  | F1               |       |                     |                    | 39B                                  |        |
| 10972   |        | XA142     | 80  |         |        |           |     |         |             |      |       | TDLI4A  | 02     | TDLI4A | 00       | 1    | TQ2  | F4               |       |                     |                    | 39A                                  |        |
| 10037   |        | XA143     | 01  |         | XA143  | 10        |     |         | 168         | 9    |       | TCOSAA  | 01     | TXC28N | 01       | 1    | TDD  | BN               |       |                     |                    | 02B                                  |        |
| 01916   |        | XA143     | 02  |         |        |           |     |         |             |      |       | GND     | 01     |        |          |      | TDD  |                  |       |                     |                    | 01B                                  |        |
| 05102   |        | XA143     | 03  |         | XA147  | 04        |     |         | 168         | 9    |       | SPI010  | 05     | TXC28Q | 01       | 1    | TDD  | BQ               |       |                     |                    | 02A                                  |        |
| 14224   |        | XA143     | 04  |         | XA143  | 06        |     |         | 168         | 9    |       | TMRUBA4 | 02     | TXC28P | 01       | 1    | TDD  | BP               |       |                     |                    | 04A                                  |        |
| 17000   |        | XA143     | 05  |         | XA142  | 15        |     |         | 168         | 9    |       | TXC200  | 01     | TXC28I | 01       | 1    | TDD  | BI               |       |                     |                    | 03B                                  |        |
| 14225   |        | XA143     | 06  |         | XA143  | 22        |     |         | 168         | 9    |       | TMRUBA4 | 03     | TXC18P | 01       | 1    | TDD  | AP               |       |                     |                    | 05A                                  |        |
| 16991   |        | XA143     | 07  |         | XA114  | 07        |     |         | 168         | 9    |       | TXC28Q  | 02     | TXC28Q | 00       | 1    | TDD  | BQ               |       |                     |                    | 03A                                  |        |
| 16961   |        | XA143     | 08  |         | XA147  | 47        |     |         | 168         | 9    |       | TXC100  | 01     | TXC18I | 01       | 1    | TDD  | AI               |       |                     |                    | 06A                                  |        |
| 16981   |        | XA143     | 09  |         | XA144  | 49        |     |         | 168         | 9    |       | TXC28P  | 02     | TXC28P | 00       | 1    | TDD  | BP               |       |                     |                    | 04B                                  |        |
| 10038   |        | XA143     | 10  |         | XA143  | 14        |     |         | 168         | 9    |       | TCOSAA  | 02     | TXC18N | 01       | 1    | TDD  | AN               |       |                     |                    | 07A                                  |        |
| 16945   |        | XA143     | 11  |         | XA144  | 54        |     |         | 168         | 9    |       | TXC18P  | 01     | TXC18P | 00       | 1    | TDD  | AP               |       |                     |                    | 05B                                  |        |
| 00356   |        | XA143     | 12  |         |        |           |     |         |             |      |       | +5V     | 01     |        |          |      | TDD  |                  |       |                     |                    |                                      |        |
| 16957   |        | XA143     | 13  |         | XA147  | 14        |     |         | 168         | 9    |       | TXC18Q  | 06     | TXC18Q | 00       | 1    | TDD  | AQ               |       |                     |                    | 06B                                  |        |
| 10039   |        | XA143     | 14  |         | XA143  | 42        |     |         | 168         | 9    |       | TCOSAA  | 03     | TMC18M | 01       | 1    | TDD  | DN               |       |                     |                    | 09A                                  |        |
| 05183   |        | XA143     | 15  |         | XA142  | 11        |     |         | 168         | 9    |       | SPI012  | 18     | TXC18Q | 01       | 1    | TDD  | AQ               |       |                     |                    | 07B                                  |        |
| 01917   |        | XA143     | 16  |         |        |           |     |         |             |      |       | GND     | 01     |        |          |      | TDD  |                  |       |                     |                    | 20B                                  |        |
| 05101   |        | XA143     | 17  |         | XA143  | 03        |     |         | 168         | 9    |       | SPI010  | 04     | TMC18Q | 01       | 1    | TDD  | DQ               |       |                     |                    | 08B                                  |        |
| 14038   |        | XA143     | 18  |         | XA140  | 06        |     |         | 168         | 9    |       | TMC110  | 01     | TMC18I | 01       | 1    | TDD  | DI               |       |                     |                    | 10A                                  |        |
| CONNECTOR (XA143) CONTINUED ON THE NEXT PAGE **** |        |           |     |         |        |           |     |         |             |      |       |         |        |        |          |      |      |                  |       |                     |                    |                                      |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA143  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 75

| RECORD NUMBER                                   | FROM   |           |     |         | TO     |           |     |         | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|---------|--------|-----------|-----|---------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE NO | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI-GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 14035   |        | XA143     | 19  |         |        |           |     |         |             |      |       |       | TMC1BQ  | 04     | TMC1BQ   | 00   | 1      | TDD              | DQ    |                     | 09B                |                    |        |
| 1461C   |        | XA143     | 20  |         | XA143  | 38        |     |         | 168         | 9    |       |       | TM4SNO  | 02     | TMCL8P   | 01   | 1      | TDD              | DP    |                     | 11A                |                    |        |
| 14031   |        | XA143     | 21  |         |        |           |     |         |             |      |       |       | TMC1BP  | 04     | TMC1BP   | 00   | 1      | TDD              | DP    |                     | 10B                | RESET, ADD ACK. CL |        |
| 14226   |        | XA143     | 22  |         | XA145  | 21        |     |         | 168         | 9    |       |       | TMRUBA4 | 04     | TXC3BP   | 01   | 1      | TDD              | CP    |                     | 12A                |                    |        |
| 17004   |        | XA143     | 23  |         |        |           |     |         |             |      |       |       | TXC3BP  | 03     | TXC3BP   | 00   | 1      | TDD              | CP    |                     | 11B                | I/O COUNTER 3-RE   |        |
| 17016   |        | XA143     | 24  |         |        |           |     |         |             |      |       |       | TXC300  | 02     | TXC3BI   | 01   | 1      | TDD              | CI    |                     | 13A                |                    |        |
| 17007   |        | XA143     | 25  |         | XA136  | 43        |     |         | 168         | 9    |       |       | TXC3BQ  | 03     | TXC3BQ   | 00   | 1      | TDD              | CQ    |                     | 12B                | I/O COUNTER 3-SE   |        |
| 17024   |        | XA143     | 26  |         | XA142  | 46        |     |         | 168         | 9    |       |       | TXK30A  | 01     | TXC3BN   | 01   | 1      | TDD              | CN    |                     | 14A                |                    |        |
| 05190   |        | XA143     | 27  |         | XA142  | 36        |     |         | 168         | 9    |       |       | SPI012  | 25     | TXC3BQ   | 01   | 1      | TDD              | CQ    |                     | 13B                |                    |        |
| 00357   |        | XA143     | 28  |         |        |           |     |         |             |      |       |       | +5V     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 05100   |        | XA143     | 29  |         | XA143  | 17        |     |         | 168         | 9    |       |       | SPI010  | 03     | TMSNOQ   | 01   | 1      | TDD              | FQ    |                     | 14B                |                    |        |
| 14493   |        | XA143     | 30  |         | XA114  | 38        |     |         | 168         | 9    |       |       | TM02BQ  | 06     | TMSNOQ   | 01   | 1      | TDD              | FN    |                     | 15A                |                    |        |
| 20510   |        | XA143     | 31  |         |        |           |     |         |             |      |       |       | TMSNOQ  | 01     | TMSNOQ   | 00   | 1      | TDD              | FQ    |                     | 15B                |                    |        |
| 01918   |        | XA143     | 32  |         |        |           |     |         |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 21B                |                    |        |
| 14323   |        | XA143     | 33  |         | XA149  | 41        |     |         | 168         | 9    |       |       | TMSNOP  | 01     | TMSNOP   | 00   | 1      | TDD              | FP    |                     | 16B                | RESET, ADD. ACK    |        |
| 14434   |        | XA143     | 34  |         | XA245  | 15        |     |         | 168         | 9    |       |       | TM00BP  | 04     | TMSNOI   | 01   | 1      | TDD              | FI    |                     | 16A                |                    |        |
| 14046   |        | XA143     | 35  |         |        |           |     |         |             |      |       |       | TMC2BP  | 03     | TMC2BP   | 00   | 1      | TDD              | EP    |                     | 17B                | RESET ADD ACK. CL  |        |
| 13743   |        | XA143     | 36  |         | XA141  | 80        |     |         | 168         | 9    |       |       | TKADA   | 01     | TMSNOP   | 01   | 1      | TDD              | FP    |                     | 17A                |                    |        |
| 14048   |        | XA143     | 37  |         | XA145  | 76        |     |         | 168         | 9    |       |       | TMC2BQ  | 02     | TMC2BQ   | 00   | 1      | TDD              | EQ    |                     | 18B                | PRESET INPUT       |        |
| 14611   |        | XA143     | 38  |         | XA145  | 60        |     |         | 168         | 9    |       |       | TM4SNO  | 03     | TMC2BP   | 01   | 1      | TDD              | EP    |                     | 18A                |                    |        |
| 05192   |        | XA143     | 39  |         | XA144  | 43        |     |         | 168         | 9    |       |       | SPI012  | 27     | TMC2BQ   | 01   | 1      | TDD              | EQ    |                     | 19B                |                    |        |
| 14050   |        | XA143     | 40  |         | XA141  | 01        |     |         | 168         | 9    |       |       | TMC210  | 01     | TMC2BI   | 01   | 1      | TDD              | EI    |                     | 19A                |                    |        |
| 04958   |        | XA143     | 41  |         | XA145  | 42        |     |         | 168         | 9    |       |       | SPI003  | 27     | TXC0BQ   | 01   | 1      | TDD              | HQ    |                     | 22B                |                    |        |
| 10040   |        | XA143     | 42  |         | XA142  | 75        |     |         | 168         | 9    |       |       | TCOSAA  | 04     | TMC2BN   | 01   | 1      | TDD              | EN    |                     | 20A                |                    |        |
| 16943   |        | XA143     | 43  |         | XA247  | 71        |     |         | 168         | 9    |       |       | TXC0BQ  | 04     | TXC0BQ   | 00   | 1      | TDD              | HQ    |                     | 23B                | CLOCKED COUNT#ZER  |        |
| 01919   |        | XA143     | 44  |         |        |           |     |         |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 27A                |                    |        |
| 16939   |        | XA143     | 45  |         |        |           |     |         |             |      |       |       | TXC0BP  | 02     | TXC0BP   | 00   | 1      | TDD              | HP    |                     | 24B                | CLOCKED COUNT#ZER  |        |
| 13820   |        | XA143     | 46  |         | XA148  | 56        |     |         | 168         | 9    |       |       | TKBACB  | 18     | TXC0BN   | 01   | 1      | TDD              | HN    |                     | 21A                |                    |        |
| 14325   |        | XA143     | 47  |         | XA150  | 09        |     |         | 168         | 9    |       |       | TMS3BP  | 01     | TMS3BP   | 00   | 1      | TDD              | GP    |                     | 25B                | PRERESET           |        |
| 16937   |        | XA143     | 48  |         |        |           |     |         |             |      |       |       | TXCAZO  | 03     | TXC0BI   | 01   | 1      | TDD              | HI    |                     | 22A                |                    |        |
| 14334   |        | XA143     | 49  |         | XA114  | 31        |     |         | 168         | 9    |       |       | TMS3BQ  | 03     | TMS3BQ   | 00   | 1      | TDD              | GQ    |                     | 26B                | PRESET             |        |
| 16960   |        | XA143     | 50  |         |        |           |     |         |             |      |       |       | TXC10A  | 02     | TXC0BP   | 01   | 1      | TDD              | HP    |                     | 23A                |                    |        |
| 05115   |        | XA143     | 51  |         | XA128  | 73        |     |         | 168         | 9    |       |       | SPI010  | 18     | TMS3BQ   | 01   | 1      | TDD              | GQ    |                     | 27B                | C05                |        |
| 05194   |        | XA143     | 52  |         | XA142  | 54        |     |         | 168         | 9    |       |       | SPI012  | 29     | TMS3BP   | 01   | 1      | TDD              | GP    |                     | 24A                |                    |        |
| 05114   |        | XA143     | 53  |         | XA143  | 51        |     |         | 168         | 9    |       |       | SPI010  | 17     | TITMRQ   | 01   | 1      | TDD              | KQ    |                     | 28B                |                    |        |
| 14340   |        | XA143     | 54  |         | XA142  | 52        |     |         | 168         | 9    |       |       | TMS3D0  | 01     | TMS3BI   | 01   | 1      | TDD              | GI    |                     | 25A                |                    |        |
| 13458   |        | XA143     | 55  |         | XA349  | 70        |     |         | 168         | 9    |       |       | TITMRQ  | 03     | TITMRQ   | 00   | 1      | TDD              | KQ    |                     | 29B                | I/O TIME OUT F.F   |        |
| 13819   |        | XA143     | 56  |         | XA143  | 46        |     |         | 168         | 9    |       |       | TKBACB  | 17     | TMS3BN   | 01   | 1      | TDD              | GN    |                     | 26A                |                    |        |
| 13451   |        | XA143     | 57  |         | XA122  | 17        |     |         | 168         | 9    |       |       | TITMRP  | 02     | TITMRP   | 00   | 1      | TDD              | KP    |                     | 30B                | I/O TIME OUT RES   |        |
| 01920   |        | XA143     | 58  |         |        |           |     |         |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 40A                |                    |        |
| 14569   |        | XA143     | 59  |         | XA122  | 68        |     |         | 168         | 9    |       |       | TM06BP  | 03     | TM06BP   | 00   | 1      | TDD              | JP    |                     | 31B                | MASTER RESET M6    |        |
| 13818   |        | XA143     | 60  |         | XA143  | 56        |     |         | 168         | 9    |       |       | TKBACB  | 16     | TITMRN   | 01   | 1      | TDD              | KN    |                     | 28A                |                    |        |
| 14575   |        | XA143     | 61  |         |        |           |     |         |             |      |       |       | TM06BQ  | 05     | TM06BQ   | 00   | 1      | TDD              | JQ    |                     | 32B                |                    |        |
| 13486   |        | XA143     | 62  |         | XA115  | 80        |     |         | 168         | 9    |       |       | TIT00   | 01     | TITMRI   | 01   | 1      | TDD              | KI    |                     | 29A                |                    |        |
| 05175   |        | XA143     | 63  |         | XA144  | 66        |     |         | 168         | 9    |       |       | SPI012  | 10     | TM06BQ   | 01   | 1      | TDD              | JQ    |                     | 33B                |                    |        |
| 15743   |        | XA143     | 64  |         | XA141  | 31        |     |         | 168         | 9    |       |       | TS00BP  | 08     | TITMRP   | 01   | 1      | TDD              | KP    |                     | 30A                | C05                |        |
| 12625   |        | XA143     | 65  |         |        |           |     |         |             |      |       |       | TE004A  | 02     | TE00BQ   | 01   | 1      | TDD              | MQ    |                     | 34B                |                    |        |
| 14203   |        | XA143     | 66  |         | XA141  | 61        |     |         | 168         | 9    |       |       | TMRUAA4 | 18     | TM06BP   | 01   | 1      | TDD              | JP    |                     | 31A                |                    |        |
| 01921   |        | XA143     | 67  |         |        |           |     |         |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 40B                |                    |        |
| 14578   |        | XA143     | 68  |         |        |           |     |         |             |      |       |       | TM0610  | 02     | TM06BI   | 01   | 1      | TDD              | JI    |                     | 32A                |                    |        |
| CONNECTOR XA143 CONTINUED ON THE NEXT PAGE **** |        |           |     |         |        |           |     |         |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA143  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 76

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE   |             |      |       | SIGNAL | SEG NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | TCO NO |       |
|---|--------|-----------|-----|--------|-----------|-----|--------|-------------|------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|-------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH.FG. | MULTI GROUP | CODE | COLOR |        |        |          |        |        |                  |       |                     |                    |                    |        | IDENT |
| 12615   |        | XA143     | 69  |        | XA246     | 05  |        |             | 168  | 9     |        | TE0JBP | 01       | TE0JBP | 00     | 1                | TDD   | MP                  | 35A                | BIT 00 I/O REG R   |        |       |
| 13817   |        | XA143     | 70  |        | XA143     | 60  |        |             | 168  | 9     | TKBACB | 15     | TM068N   | 01     | 1      | TDD              | JN    | 33A                 |                    |                    |        |       |
| 12622   |        | XA143     | 71  |        | XA243     | 11  |        |             | 168  | 9     | TE0010 | 01     | TE00BI   | 01     | 1      | TDD              | MI    | 36A                 |                    |                    |        |       |
| 12462   |        | XA143     | 72  |        | XA244     | 01  |        |             | 168  | 9     | TECK1A | 01     | TE00BN   | 01     | 1      | TDD              | MN    | 34A                 |                    |                    |        |       |
| 12545   |        | XA143     | 73  |        | XA244     | 04  |        |             | 168  | 9     | TERSAA | 01     | TE00BP   | 01     | 1      | TDD              | MP    | 36B                 |                    |                    |        |       |
| 12621   |        | XA143     | 74  |        |           |     |        |             |      |       | TE00BQ | 05     | TE00BQ   | 00     | 1      | TDD              | MQ    | 35B                 | BIT 00 I/O REG S   |                    |        |       |
| 13442   |        | XA143     | 75  |        | XA144     | 71  |        |             | 168  | 9     | TI11M0 | 03     | TI11M0   | 01     | 1      | TDD              | LP    | 37B                 |                    |                    |        |       |
| 13436   |        | XA143     | 76  |        | XA144     | 74  |        |             | 168  | 9     | TI11M0 | 01     | TI11M0   | 03     | 1      | TDD              | LP    | 37A                 | I/O TIMER LSB, P   |                    |        |       |
| 13430   |        | XA143     | 77  |        |           |     |        |             |      |       | TI11M0 | 02     | TI11M0   | 01     | 1      | TDD              | LI    | 38B                 |                    |                    |        |       |
| 13439   |        | XA143     | 78  |        |           |     |        |             |      |       | TI11M0 | 02     | TI11M0   | 03     | 1      | TDD              | LQ    | 38A                 | I/C TIMER LSB, PR  |                    |        |       |
| 04791   |        | XA143     | 79  |        | XA148     | 79  |        |             | 168  | 9     | RTCQ9A | 04     | TI11M0   | 01     | 1      | TDD              | LN    | 39B                 |                    |                    |        |       |
| 05168   |        | XA143     | 80  |        | XA141     | 73  |        |             | 168  | 9     | SPI012 | 03     | TI11M0   | 01     | 1      | TDD              | LQ    | 39A                 |                    |                    |        |       |
| 08935   |        | XA144     | 01  |        | XA144     | 10  |        |             | 168  | 9     | TBLE2P | 03     | TBL11A   | 01     | 1      | T04              | A2    | 02B                 |                    |                    |        |       |
| 01922   |        | XA144     | 02  |        |           |     |        |             |      |       | GND    | 01     |          |        |        | T04              |       | 01A                 |                    |                    |        |       |
| 00848   |        | XA144     | 03  |        |           |     |        |             |      |       | DNW    | 01     |          |        |        | T04              |       |                     |                    |                    |        |       |
| 08941   |        | XA144     | 04  |        | XA144     | 08  |        |             | 168  | 9     | TBLE3P | 01     | TBL11A   | 01     | 2      | T04              | A2    | 04A                 |                    |                    |        |       |
| 08925   |        | XA144     | 05  |        | XA148     | 25  |        |             | 168  | 9     | TBLE0Q | 02     | TBL11A   | 01     | 3      | T04              | A2    | 03B                 |                    |                    |        |       |
| 08923   |        | XA144     | 06  |        |           |     |        |             |      |       | TBLE0P | 02     | TBLEZA   | 01     | 1      | T04              | A1    | 05A                 |                    |                    |        |       |
| 08928   |        | XA144     | 07  |        | XA144     | 13  |        |             | 168  | 9     | TBLE1P | 02     | TBL11A   | 01     | 4      | T04              | A2    | 03A                 |                    |                    |        |       |
| 08942   |        | XA144     | 08  |        | XA145     | 17  |        |             | 168  | 9     | TBLE3P | 02     | TBLEZA   | 01     | 2      | T04              | A1    | 06A                 |                    |                    |        |       |
| 09058   |        | XA144     | 09  |        |           |     |        |             |      |       | TBL11A | 02     | TBL11A   | 00     | 1      | T04              | A2    | 04B                 | BL EXT COUNT 4     |                    |        |       |
| 08936   |        | XA144     | 10  |        | XA145     | 18  |        |             | 168  | 9     | TBLE2P | 04     | TBLEZA   | 01     | 3      | T04              | A1    | 07A                 |                    |                    |        |       |
| 08917   |        | XA144     | 11  |        | XA139     | 38  |        |             | 168  | 9     | TBLEZA | 02     | TBLEZA   | 00     | 1      | T04              | A1    | 05B                 | EXT BL = 0         |                    |        |       |
| 00358   |        | XA144     | 12  |        |           |     |        |             |      |       | +5V    | 01     |          |        |        | T04              |       |                     |                    |                    |        |       |
| 08929   |        | XA144     | 13  |        | XA137     | 34  |        |             | 168  | 9     | TBLE1P | 03     | TBLEZA   | 01     | 4      | T04              | A1    | 06B                 |                    |                    |        |       |
| 16037   |        | XA144     | 14  |        | XA344     | 47  |        |             | 168  | 9     | TS1070 | 02     | TBRRSA   | 01     | 1      | T04              | B2    | 09A                 |                    |                    |        |       |
| 00849   |        | XA144     | 15  |        |           |     |        |             |      |       | DNW    | 01     |          |        |        | T04              |       |                     |                    |                    |        |       |
| 01923   |        | XA144     | 16  |        |           |     |        |             |      |       | GND    | 01     |          |        |        | T04              |       | 20B                 |                    |                    |        |       |
| 00850   |        | XA144     | 17  |        |           |     |        |             |      |       | DNW    | 01     |          |        |        | T04              |       |                     |                    |                    |        |       |
| 13670   |        | XA144     | 18  |        | XA141     | 42  |        |             | 168  | 9     | TKAAAB | 02     | TBRRSA   | 01     | 2      | T04              | B2    | 10A                 |                    |                    |        |       |
| 14545   |        | XA144     | 19  |        | XA151     | 49  |        |             | 168  | 9     | TM04BQ | 01     | TBRRSA   | 01     | 3      | T04              | B2    | 09B                 |                    |                    |        |       |
| 15624   |        | XA144     | 20  |        | XA113     | 61  |        |             | 168  | 9     | TSN1BQ | 01     | TBRRSA   | 01     | 4      | T04              | B2    | 11A                 |                    |                    |        |       |
| 09102   |        | XA144     | 21  |        |           |     |        |             |      |       | TBRRSA | 02     | TBRRSA   | 00     | 1      | T04              | B2    | 10B                 | BURST RESET CONT   |                    |        |       |
| 09047   |        | XA144     | 22  |        | XA324     | 60  |        |             | 168  | 9     | TBLZ50 | 01     | TBLZAA   | 01     | 1      | T04              | B1    | 12A                 |                    |                    |        |       |
| 09006   |        | XA144     | 23  |        | XA139     | 33  |        |             | 168  | 9     | TBLZAA | 04     | TBLZAA   | 03     | 1      | T04              | B1    | 11B                 | BLOCK LENGTH ZER   |                    |        |       |
| 09022   |        | XA144     | 24  |        | XA324     | 13  |        |             | 168  | 9     | TBLZ10 | 01     | TBLZAA   | 01     | 2      | T04              | B1    | 13A                 |                    |                    |        |       |
| 09033   |        | XA144     | 25  |        | XA138     | 42  |        |             | 168  | 9     | TBLZ30 | 01     | TBLZAA   | 01     | 3      | T04              | B1    | 12B                 |                    |                    |        |       |
| 09027   |        | XA144     | 26  |        | XA137     | 40  |        |             | 168  | 9     | TBLZ20 | 01     | TBLZAA   | 01     | 4      | T04              | B1    | 14A                 |                    |                    |        |       |
| 00851   |        | XA144     | 27  |        |           |     |        |             |      |       | DNW    | 01     |          |        |        | T04              |       |                     |                    |                    |        |       |
| 00359   |        | XA144     | 28  |        |           |     |        |             |      |       | +5V    | 01     |          |        |        | T04              |       |                     |                    |                    |        |       |
| 00852   |        | XA144     | 29  |        |           |     |        |             |      |       | DNW    | 01     |          |        |        | T04              |       |                     |                    |                    |        |       |
| 09667   |        | XA144     | 30  |        | XA250     | 26  |        |             | 168  | 9     | TC014A | 01     | TB4XA0   | 01     | 1      | T04              | C2    | 15A                 |                    |                    |        |       |
| 09364   |        | XA144     | 31  |        |           |     |        |             |      |       | TB4X1A | 02     | TB4XA0   | 01     | 2      | T04              | C2    | 15B                 |                    |                    |        |       |
| 01924   |        | XA144     | 32  |        |           |     |        |             |      |       | GND    | 01     |          |        |        | T04              |       | 21B                 |                    |                    |        |       |
| 09353   |        | XA144     | 33  |        | XA146     | 79  |        |             | 168  | 9     | TB4XA0 | 01     | TB4XA0   | 00     | 1      | T04              | C2    | 16B                 | BYTE 4 TE00-07     |                    |        |       |
| 08818   |        | XA144     | 34  |        | XA145     | 30  |        |             | 168  | 9     | TB0IGA | 01     | TB4XA0   | 01     | 3      | T04              | C2    | 16A                 |                    |                    |        |       |
| 09262   |        | XA144     | 35  |        | XA138     | 68  |        |             | 168  | 9     | TBT12A | 01     | TBT12A   | 00     | 1      | T04              | C1    | 17B                 | SET BOOTSTRAP1     |                    |        |       |
| 09366   |        | XA144     | 36  |        |           |     |        |             |      |       | TB4X2A | 02     | TB4XA0   | 01     | 4      | T04              | C2    | 17A                 |                    |                    |        |       |
| CONNECTOR (XA144) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |        |             |      |       |        |        |          |        |        |                  |       |                     |                    |                    |        |       |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA144  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 77

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |        |                  |       |                     |                    |                    |        |
| 15750   |        | XA144     | 37  |        | XA116     | 74  |             |      | 168   | 9     |        | TS00BQ | 07       | TBT12A | 01     | 1                | TD4   | C1                  | 18B                |                    |        |
| 13272   |        | XA144     | 38  |        | XA149     | 13  |             |      | 168   | 9     |        | TIAZAO | 03       | TBT12A | 01     | 2                | TD4   | C1                  | 18A                |                    |        |
| 00853   |        | XA144     | 39  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 09157   |        | XA144     | 40  |        | XA433     | 13  |             |      | 168   | 9     |        | TBSTOQ | 01       | TBT12A | 01     | 3                | TD4   | C1                  | 19A                |                    |        |
| 00854   |        | XA144     | 41  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 09191   |        | XA144     | 42  |        | XA142     | 40  |             |      | 168   | 9     |        | TBST2A | 04       | TBT12A | 01     | 4                | TD4   | C1                  | 20A                |                    |        |
| 05193   |        | XA144     | 43  |        | XA143     | 52  |             |      | 168   | 9     |        | SPI012 | 28       | TXC14A | 01     | 1                | TD4   | D2                  | 23B                |                    |        |
| 01925   |        | XA144     | 44  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TD4   |                     | 27A                |                    |        |
| 16974   |        | XA144     | 45  |        | XA147     | 56  |             |      | 168   | 9     |        | TXC14A | 01       | TXC14A | 00     | 1                | TD4   | D2                  | 24B                | INFORMATION.I1.C   |        |
| 16983   |        | XA144     | 46  |        | XA145     | 47  |             |      | 168   | 9     |        | TXC2BP | 04       | TXC14A | 01     | 2                | TD4   | D2                  | 21A                |                    |        |
| 16964   |        | XA144     | 47  |        | XA147     | 46  |             |      | 168   | 9     |        | TXC11A | 01       | TXC11A | 00     | 1                | TD4   | D1                  | 25B                | I3.C1*C2*.C3       |        |
| 13533   |        | XA144     | 48  |        |           |     |             |      |       |       |        | T110BQ | 09       | TXC14A | 01     | 3                | TD4   | D2                  | 22A                |                    |        |
| 16982   |        | XA144     | 49  |        | XA144     | 46  |             |      | 168   | 9     |        | TXC2BP | 03       | TXC11A | 01     | 1                | TD4   | D1                  | 26B                |                    |        |
| 13367   |        | XA144     | 50  |        | XA346     | 35  |             |      | 168   | 9     |        | TINF10 | 01       | TXC14A | 01     | 4                | TD4   | D2                  | 23A                |                    |        |
| 00855   |        | XA144     | 51  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 17006   |        | XA144     | 52  |        | XA143     | 25  |             |      | 168   | 9     |        | TXC3BQ | 02       | TXC11A | 01     | 2                | TD4   | D1                  | 24A                |                    |        |
| 00856   |        | XA144     | 53  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 16946   |        | XA144     | 54  |        | XA145     | 45  |             |      | 168   | 9     |        | TXC18P | 02       | TXC11A | 01     | 3                | TD4   | D1                  | 25A                |                    |        |
| 17057   |        | XA144     | 55  |        |           |     |             |      |       |       |        | TOFR2A | 02       | TOFRD0 | 01     | 1                | TD4   | E2                  | 29B                |                    |        |
| 13636   |        | XA144     | 56  |        | XA147     | 20  |             |      | 168   | 9     |        | T130BQ | 02       | TXC11A | 01     | 4                | TD4   | D1                  | 26A                |                    |        |
| 17047   |        | XA144     | 57  |        | XA350     | 73  |             |      | 168   | 9     |        | TOFRD0 | 02       | TOFRD0 | 00     | 1                | TD4   | E2                  | 30B                | SPECIAL OFR + A    |        |
| 01926   |        | XA144     | 58  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TD4   |                     | 40A                |                    |        |
| 07852   |        | XA144     | 59  |        |           |     |             |      |       |       |        | SPO    | 01       |        | 00     | 1                | TD4   | E1                  | 31B                |                    |        |
| 17054   |        | XA144     | 60  |        | XA140     | 57  |             |      | 168   | 9     |        | TOFR1A | 01       | TOFRD0 | 01     | 2                | TD4   | E2                  | 28A                |                    |        |
| 04971   |        | XA144     | 61  |        | XA242     | 03  |             |      | 168   | 9     |        | SPI004 | 06       |        | 01     | 1                | TD4   | E1                  | 32B                |                    |        |
| 17051   |        | XA144     | 62  |        |           |     |             |      |       |       |        | TOFR0A | 03       | TOFRD0 | 01     | 3                | TD4   | E2                  | 29A                |                    |        |
| 00857   |        | XA144     | 63  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 10698   |        | XA144     | 64  |        |           |     |             |      |       |       |        | TDECAA | 04       | TOFRD0 | 01     | 4                | TD4   | E2                  | 30A                |                    |        |
| 00858   |        | XA144     | 65  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 05176   |        | XA144     | 66  |        | XA146     | 68  |             |      | 168   | 9     |        | SPI012 | 11       |        | 01     | 2                | TD4   | E1                  | 31A                |                    |        |
| 01927   |        | XA144     | 67  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TD4   |                     | 40B                |                    |        |
| 04965   |        | XA144     | 68  |        |           |     |             |      |       |       |        | SPI003 | 34       |        | 01     | 3                | TD4   | E1                  | 32A                |                    |        |
| 13485   |        | XA144     | 69  |        |           |     |             |      |       |       |        | TITTOA | 02       | TITTOA | 00     | 1                | TD4   | F2                  | 35A                | I/O TIME OUT 6 M   |        |
| 05112   |        | XA144     | 70  |        | XA144     | 75  |             |      | 168   | 9     |        | SPI010 | 15       |        | 01     | 4                | TD4   | E1                  | 33A                |                    |        |
| 13443   |        | XA144     | 71  |        | XA244     | 13  |             |      | 168   | 9     |        | TITIMQ | 04       | TITTOA | 01     | 1                | TD4   | F2                  | 36A                |                    |        |
| 13435   |        | XA144     | 72  |        |           |     |             |      |       |       |        | TITC1P | 02       | TITTOA | 01     | 2                | TD4   | F2                  | 34A                |                    | 005    |
| 13431   |        | XA144     | 73  |        | XA151     | 61  |             |      | 168   | 9     |        | TITCOQ | 01       | TITTOA | 01     | 3                | TD4   | F2                  | 36B                |                    |        |
| 13437   |        | XA144     | 74  |        |           |     |             |      |       |       |        | TITC2P | 02       | TITTOA | 01     | 4                | TD4   | F2                  | 35B                |                    |        |
| 05113   |        | XA144     | 75  |        | XA143     | 53  |             |      | 168   | 9     |        | SPI010 | 16       | TDIGBS | 01     | 1                | TD4   | F1                  | 37B                |                    |        |
| 10720   |        | XA144     | 76  |        | XA127     | 19  |             |      | 168   | 9     |        | TDIGBS | 02       | TDIGBS | 00     | 1                | TD4   | F1                  | 37A                |                    |        |
| 05167   |        | XA144     | 77  |        | XA143     | 80  |             |      | 168   | 9     |        | SPI012 | 02       | TDIGBS | 01     | 2                | TD4   | F1                  | 38B                |                    |        |
| 10718   |        | XA144     | 78  |        |           |     |             |      |       |       |        | TDIGBR | 03       | TDIGBS | 01     | 3                | TD4   | F1                  | 38A                |                    |        |
| 08846   |        | XA144     | 79  |        |           |     |             |      |       |       |        | TBD24A | 03       | TDIGBS | 01     | 4                | TD4   | F1                  | 39B                |                    |        |
| 00859   |        | XA144     | 80  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 09248   |        | XA145     | 01  |        | XA145     | 08  |             |      | 168   | 9     |        | TBS7C0 | 01       | TBD35A | 01     | 1                | TT3   | A2                  | 02B                |                    |        |
| 01928   |        | XA145     | 02  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TT3   |                     | 01B                |                    |        |
| 08773   |        | XA145     | 03  |        | XA145     | 10  |             |      | 168   | 9     |        | TBC2BQ | 02       | TBD35A | 01     | 2                | TT3   | A2                  | 02A                |                    |        |
| 08859   |        | XA145     | 04  |        | XA137     | 03  |             |      | 168   | 9     |        | TBD32A | 01       | TBD32A | 00     | 1                | TT3   | A1                  | 04A                | BOOTSTRAP 1.2 .8   |        |
| CONNECTOR (XA145) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA145  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 78

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       | SIGNAL  | SFQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH TO | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 08719   |        | XA145     | 05  |       |        |           |     |       |             |      |       | Y883A0  | 03     | T8D35A   | 01   | 3      | TT3              | A2    |                     | 03B                |                    |        |
| 08790   |        | XA145     | 06  |       |        |           |     |       |             |      |       | T8C38P  | 06     | T8D32A   | 01   | 1      | TT3              | A1    |                     | 05A                |                    |        |
| 08867   |        | XA145     | 07  |       |        |           |     |       |             |      |       | Y8D35A  | 03     | T8D35A   | 00   | 1      | TT3              | A2    |                     | 03A                | BOOTSTRAP 1.2.8V   |        |
| 09249   |        | XA145     | 08  |       | XA149  | 76        |     |       | 168         | 9    |       | T8S7C0  | 02     | T8D32A   | 01   | 2      | TT3              | A1    |                     | 06A                |                    |        |
| 08853   |        | XA145     | 09  |       | XA149  | 06        |     |       | 168         | 9    |       | Y8D27A  | 03     | Y8D43A   | 01   | 1      | TT3              | A3    |                     | 04B                |                    |        |
| 08774   |        | XA145     | 10  |       | XA146  | 08        |     |       | 168         | 9    |       | T8C28Q  | 03     | T8D32A   | 01   | 3      | TT3              | A1    |                     | 07A                |                    |        |
| 08807   |        | XA145     | 11  |       | XA146  | 11        |     |       | 168         | 9    |       | T8C48Q  | 01     | Y8D43A   | 01   | 2      | TT3              | A3    |                     | 05B                |                    |        |
| 00360   |        | XA145     | 12  |       |        |           |     |       |             |      |       | +5V     | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 08875   |        | XA145     | 13  |       |        |           |     |       |             |      |       | Y8D44A  | 02     | Y8D43A   | 01   | 3      | TT3              | A3    |                     | 06B                |                    |        |
| 05182   |        | XA145     | 14  |       | XA143  | 15        |     |       | 168         | 9    |       | SPI012  | 17     | TBL22A   | 01   | 1      | TT3              | B2    |                     | 09A                |                    |        |
| 08872   |        | XA145     | 15  |       | XA137  | 23        |     |       | 168         | 9    |       | Y8D43A  | 01     | Y8D43A   | 00   | 1      | TT3              | A3    |                     | 07B                | LATCH/RESET CONT   |        |
| 01929   |        | XA145     | 16  |       |        |           |     |       |             |      |       | GND     | 01     |          |      |        | TT3              |       |                     | 21B                |                    |        |
| 08943   |        | XA145     | 17  |       | XA148  | 33        |     |       | 168         | 9    |       | TBLE3P  | 03     | TBL22A   | 01   | 2      | TT3              | B2    |                     | 08B                |                    |        |
| 08937   |        | XA145     | 18  |       | XA148  | 35        |     |       | 168         | 9    |       | TBLE2P  | 05     | TBL22A   | 01   | 3      | TT3              | B2    |                     | 10A                |                    |        |
| 09067   |        | XA145     | 19  |       | XA146  | 29        |     |       | 168         | 9    |       | TBL22A  | 01     | TBL22A   | 00   | 1      | TT3              | B2    |                     | 09B                | BL EXT COUNT 4+8+  |        |
| 14577   |        | XA145     | 20  |       | XA143  | 68        |     |       | 168         | 9    |       | TM0610  | 01     | TM0610   | 00   | 1      | TT3              | B1    |                     | 11A                | CONDITIONS TO SE   |        |
| 14227   |        | XA145     | 21  |       | XA147  | 36        |     |       | 168         | 9    |       | TMURBA4 | 05     | TBR20    | 01   | 1      | TT3              | B3    |                     | 10B                |                    |        |
| 14618   |        | XA145     | 22  |       | XA122  | 51        |     |       | 168         | 9    |       | TM6PEA  | 01     | TM0610   | 01   | 1      | TT3              | B1    |                     | 12A                |                    |        |
| 15936   |        | XA145     | 23  |       |        |           |     |       |             |      |       | TS07BP  | 06     | TBR20    | 01   | 2      | TT3              | B3    |                     | 11B                |                    |        |
| 14621   |        | XA145     | 24  |       |        |           |     |       |             |      |       | TM6SCA  | 02     | TM0610   | 01   | 2      | TT3              | B1    |                     | 13A                |                    |        |
| 09152   |        | XA145     | 25  |       |        |           |     |       |             |      |       | TBR5U0  | 09     | TBR20    | 01   | 3      | TT3              | B3    |                     | 12B                |                    |        |
| 14555   |        | XA145     | 26  |       | XA149  | 47        |     |       | 168         | 9    |       | TM058P  | 03     | TM0610   | 01   | 3      | TT3              | B1    |                     | 14A                |                    |        |
| 09110   |        | XA145     | 27  |       | XA146  | 70        |     |       | 168         | 9    |       | TBR20   | 01     | TBR20    | 00   | 1      | TT3              | B3    |                     | 13B                | S07 + BURST* + M   |        |
| 00361   |        | XA145     | 28  |       |        |           |     |       |             |      |       | +5V     | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 09312   |        | XA145     | 29  |       |        |           |     |       |             |      |       | TB1X1A  | 02     | TB1XA0   | 01   | 1      | TT3              | C2    |                     | 14B                |                    |        |
| 08819   |        | XA145     | 30  |       | XA145  | 48        |     |       | 168         | 9    |       | TB01GA  | 02     | TB1XA0   | 01   | 2      | TT3              | C2    |                     | 15A                |                    |        |
| 09301   |        | XA145     | 31  |       | XA146  | 53        |     |       | 168         | 9    |       | TB1XA0  | 01     | TB1XA0   | 00   | 1      | TT3              | C2    |                     | 15B                | BYTE 1 TRANSFER    |        |
| 01930   |        | XA145     | 32  |       |        |           |     |       |             |      |       | GND     | 01     |          |      |        | TT3              |       |                     | 27A                |                    |        |
| 09130   |        | XA145     | 33  |       | XA148  | 61        |     |       | 168         | 9    |       | TBRSTQ  | 03     | TB135A   | 01   | 1      | TT3              | C3    |                     | 16B                |                    |        |
| 09314   |        | XA145     | 34  |       |        |           |     |       |             |      |       | TB1X2A  | 02     | TB1XA0   | 01   | 3      | TT3              | C2    |                     | 16A                |                    |        |
| 16090   |        | XA145     | 35  |       | XA115  | 24        |     |       | 168         | 9    |       | TS138P  | 06     | TB135A   | 01   | 2      | TT3              | C3    |                     | 17B                |                    |        |
| 07853   |        | XA145     | 36  |       |        |           |     |       |             |      |       | SP0     | 01     |          | 00   | 1      | TT3              | C1    |                     | 17A                |                    |        |
| 15891   |        | XA145     | 37  |       | XA114  | 34        |     |       | 168         | 9    |       | TS058P  | 04     | TB135A   | 01   | 3      | TT3              | C3    |                     | 18B                |                    |        |
| 05107   |        | XA145     | 38  |       | XA147  | 49        |     |       | 168         | 9    |       | SPI010  | 10     |          | 01   | 1      | TT3              | C1    |                     | 18A                |                    |        |
| 09317   |        | XA145     | 39  |       |        |           |     |       |             |      |       | TB135A  | 03     | TB135A   | 00   | 1      | TT3              | C3    |                     | 19B                | BURST. S13*.S05*   |        |
| 05180   |        | XA145     | 40  |       | XA146  | 26        |     |       | 168         | 9    |       | SPI012  | 15     |          | 01   | 2      | TT3              | C1    |                     | 19A                |                    |        |
| 09348   |        | XA145     | 41  |       |        |           |     |       |             |      |       | TB3X1A  | 02     | TB3XA0   | 01   | 1      | TT3              | D2    |                     | 22B                |                    |        |
| 04959   |        | XA145     | 42  |       | XA147  | 34        |     |       | 168         | 9    |       | SPI003  | 28     |          | 01   | 3      | TT3              | C1    |                     | 20A                |                    |        |
| 09346   |        | XA145     | 43  |       |        |           |     |       |             |      |       | TB3XA0  | 10     | TB3XA0   | 00   | 1      | TT3              | D2    |                     | 23B                | BYTE 3 TE00-07     |        |
| 01931   |        | XA145     | 44  |       |        |           |     |       |             |      |       | GND     | 01     |          |      |        | TT3              |       |                     | 40A                |                    |        |
| 16947   |        | XA145     | 45  |       | XA136  | 48        |     |       | 168         | 9    |       | TXC18P  | 03     | TXCAZA   | 01   | 1      | TT3              | D3    |                     | 24B                |                    |        |
| 09350   |        | XA145     | 46  |       |        |           |     |       |             |      |       | TB3X2A  | 02     | TB3XA0   | 01   | 2      | TT3              | D2    |                     | 21A                |                    |        |
| 16984   |        | XA145     | 47  |       | XA146  | 65        |     |       | 168         | 9    |       | TXC28P  | 05     | TXCAZA   | 01   | 2      | TT3              | D3    |                     | 25B                |                    |        |
| 08620   |        | XA145     | 48  |       | XA145  | 56        |     |       | 168         | 9    |       | TB01GA  | 03     | TB3XA0   | 01   | 3      | TT3              | D2    |                     | 22A                |                    |        |
| 17002   |        | XA145     | 49  |       | XA142  | 31        |     |       | 168         | 9    |       | TXC38P  | 01     | TXCAZA   | 01   | 3      | TT3              | D3    |                     | 26B                |                    |        |
| 09328   |        | XA145     | 50  |       | XA141  | 24        |     |       | 168         | 9    |       | TB2XA0  | 09     | TB2XA0   | 00   | 1      | TT3              | D1    |                     | 23A                | BYTE 2 TE00-07     |        |
| 16932   |        | XA145     | 51  |       | XA141  | 34        |     |       | 168         | 9    |       | TXCAZA  | 01     | TXCAZA   | 00   | 1      | TT3              | D3    |                     | 27B                | C1*.C2*.C3* (COU   |        |
| 09331   |        | XA145     | 52  |       |        |           |     |       |             |      |       | TB2X1A  | 02     | TB2XA0   | 01   | 1      | TT3              | D1    |                     | 24A                |                    |        |
| 14045   |        | XA145     | 53  |       | XA143  | 35        |     |       | 168         | 9    |       | TM028P  | 02     | TM012A   | 01   | 1      | TT3              | E2    |                     | 28B                |                    |        |
| 09333   |        | XA145     | 54  |       |        |           |     |       |             |      |       | TB2X2A  | 02     | TB2XA0   | 01   | 2      | TT3              | D1    |                     | 25A                |                    |        |
| CONNECTOR (XA145) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA145  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 79

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO                           |                |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|---------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|----------------------------------|----------------|
|   | PREFIX | CONNECTOR | PIN | TYPE | PREFIX | CONNECTOR | PIN | TYPE | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |        |        |                  |       |                     |                    |                    |                                  | SPEC INST MISC |
| 14041   |        | XA145     | 55  |      |        |           |     |      |             |      |       |       |        | TMC12A  | 02       | TMC12A | 00     | 1                | TT3   | E2                  |                    | 29B                | MEM COUNT 1. M02                 |                |
| 08821   |        | XA145     | 56  |      | XA150  | 73        |     |      | 168         | 9    |       |       |        | TBDIGA  | 04       | TB2XA0 | 01     | 3                | TT3   | D1                  |                    | 26A                |                                  |                |
| 14044   |        | XA145     | 57  |      | XA145  | 53        |     |      | 168         | 9    |       |       |        | TMC2BP  | 01       | TMC13A | 01     | 1                | TT3   | E3                  |                    | 30B                |                                  |                |
| 01932   |        | XA145     | 58  |      |        |           |     |      |             |      |       |       |        | GND     | 01       |        |        |                  | TT3   |                     |                    | 40B                |                                  |                |
| 14548   |        | XA145     | 59  |      | XA338  | 73        |     |      | 168         | 9    |       |       |        | TM048Q  | 04       | TMC13A | 01     | 2                | TT3   | E3                  |                    | 31B                | D05                              |                |
| 14612   |        | XA145     | 60  |      | XA149  | 45        |     |      | 168         | 9    |       |       |        | TM4SNO  | 04       | TMC12A | 01     | 2                | TT3   | E2                  |                    | 28A                |                                  |                |
| 14034   |        | XA145     | 61  |      | XA143  | 19        |     |      | 168         | 9    |       |       |        | TMC1BQ  | 03       | TMC13A | 01     | 3                | TT3   | E3                  |                    | 32B                |                                  |                |
| 14033   |        | XA145     | 62  |      | XA145  | 61        |     |      | 168         | 9    |       |       |        | TMC1BQ  | 02       | TMC12A | 01     | 3                | TT3   | E2                  |                    | 29A                |                                  |                |
| 14042   |        | XA145     | 63  |      | XA2G6  | 52        |     |      | 168         | 9    |       |       |        | TMC13A  | 01       | TMC13A | 00     | 1                | TT3   | E3                  |                    | 33B                | MEM COUNT 1. M04<br>COUNT = 7- A |                |
| 17017   |        | XA145     | 64  |      | XA141  | 13        |     |      | 168         | 9    |       |       |        | TXC78A  | 01       | TXC78A | 00     | 1                | TT3   | E1                  |                    | 30A                |                                  |                |
| 13508   |        | XA145     | 65  |      |        |           |     |      |             |      |       |       |        | TIOIHA  | 12       | TILOBR | 01     | 1                | TT3   | F2                  |                    | 34B                |                                  |                |
| 17005   |        | XA145     | 66  |      | XA144  | 52        |     |      | 168         | 9    |       |       |        | TXC3BQ  | 01       | TXC78A | 01     | 1                | TT3   | E1                  |                    | 31A                |                                  |                |
| 01933   |        | XA145     | 67  |      |        |           |     |      |             |      |       |       |        | GND     | 01       |        |        |                  | TT3   |                     |                    |                    |                                  |                |
| 16954   |        | XA145     | 68  |      | XA142  | 29        |     |      | 168         | 9    |       |       |        | TXC1BQ  | 03       | TXC78A | 01     | 2                | TT3   | E1                  |                    | 32A                |                                  |                |
| 14032   |        | XA145     | 69  |      | XA145  | 62        |     |      | 168         | 9    |       |       |        | TMC1BQ  | 01       | TMC3AA | 01     | 1                | TT3   | F3                  |                    | 35A                |                                  |                |
| 16996   |        | XA145     | 70  |      | XA146  | 69        |     |      | 168         | 9    |       |       |        | TXC2C0  | 02       | TXC78A | 01     | 3                | TT3   | E1                  |                    | 33A                |                                  |                |
| 16523   |        | XA145     | 71  |      | XA344  | 18        |     |      | 168         | 9    |       |       |        | TS77AA  | 01       | TILOBR | 01     | 2                | TT3   | F2                  |                    | 36A                |                                  |                |
| 13307   |        | XA145     | 72  |      |        |           |     |      |             |      |       |       |        | TILOBS  | 02       | TILOBR | 01     | 3                | TT3   | F2                  |                    | 34A                |                                  |                |
| 10717   |        | XA145     | 73  |      | XA144  | 78        |     |      | 168         | 9    |       |       |        | TDIGBR  | 02       | TDIGBR | 00     | 1                | TT3   | F1                  |                    | 36B                | I/O STATE INHIBI                 |                |
| 13303   |        | XA145     | 74  |      | XA345  | 37        |     |      | 168         | 9    |       |       |        | TILOBR  | 01       | TILOBR | 00     | 1                | TT3   | F2                  |                    | 35B                |                                  |                |
| 10719   |        | XA145     | 75  |      | XA144  | 76        |     |      | 168         | 9    |       |       |        | TDIGBS  | 01       | TDIGBR | 01     | 1                | TT3   | F1                  |                    | 37B                |                                  |                |
| 14049   |        | XA145     | 76  |      |        |           |     |      |             |      |       |       |        | TMC2BQ  | 03       | TMC3AA | 01     | 2                | TT3   | F3                  |                    | 37A                |                                  |                |
| 14541   |        | XA145     | 77  |      | XA122  | 66        |     |      | 168         | 9    |       |       |        | TM400A  | 02       | TDIGBR | 01     | 2                | TT3   | F1                  |                    | 38B                | D05                              |                |
| 10045   |        | XA145     | 78  |      | XA142  | 50        |     |      | 168         | 9    |       |       |        | TCOSAB  | 03       | TMC3AA | 01     | 3                | TT3   | F3                  |                    | 38A                |                                  |                |
| 14229   |        | XA145     | 79  |      | XA248  | 07        |     |      | 168         | 9    |       |       |        | TMRUBA4 | 07       | TDIGBR | 01     | 3                | TT3   | F1                  |                    | 39B                | COUNT 3 OSC.*                    |                |
| 14054   |        | XA145     | 80  |      | XA141  | 74        |     |      | 168         | 9    |       |       |        | TMC3AA  | 01       | TMC3AA | 00     | 1                | TT3   | F3                  |                    | 39A                |                                  |                |
| 08863   |        | XA146     | 01  |      | XA136  | 24        |     |      | 168         | 9    |       |       |        | TB034A  | 01       | TB034A | 00     | 1                | TQ2   | A2                  |                    | 02B                | I2.BYTE 4*                       |                |
| 01934   |        | XA146     | 02  |      |        |           |     |      |             |      |       |       |        | GND     | 01       |        |        |                  | TQ2   |                     |                    | 01A                |                                  |                |
| 13516   |        | XA146     | 03  |      | XA146  | 10        |     |      | 168         | 9    |       |       |        | TI1C10  | 01       | TB041A | 01     | 1                | TQ2   | A3                  |                    | 02A                |                                  |                |
| 08800   |        | XA146     | 04  |      | XA150  | 18        |     |      | 168         | 9    |       |       |        | TBC4BP  | 01       | TB034A | 01     | 1                | TQ2   | A2                  |                    | 04A                |                                  |                |
| 13587   |        | XA146     | 05  |      | XA146  | 13        |     |      | 168         | 9    |       |       |        | TI20C0  | 01       | TB034A | 01     | 2                | TQ2   | A2                  |                    | 03B                | I1.C1*.BYTE 2                    |                |
| 08858   |        | XA146     | 06  |      |        |           |     |      |             |      |       |       |        | TB031A  | 02       | TB031A | 00     | 1                | TQ2   | A1                  |                    | 05A                |                                  |                |
| 08793   |        | XA146     | 07  |      | XA150  | 14        |     |      | 168         | 9    |       |       |        | TBC3BQ  | 03       | TB041A | 01     | 2                | TQ2   | A3                  |                    | 03A                |                                  |                |
| 08775   |        | XA146     | 08  |      | XA150  | 52        |     |      | 168         | 9    |       |       |        | TBC2BQ  | 04       | TB031A | 01     | 1                | TQ2   | A1                  |                    | 06A                |                                  |                |
| 08871   |        | XA146     | 09  |      |        |           |     |      |             |      |       |       |        | TB041A  | 02       | TB041A | 00     | 1                | TQ2   | A3                  |                    | 04B                | I0.C1*.BYTE 3                    |                |
| 13517   |        | XA146     | 10  |      | XA149  | 79        |     |      | 168         | 9    |       |       |        | TI1C10  | 02       | TB031A | 01     | 2                | TQ2   | A1                  |                    | 07A                |                                  |                |
| 08808   |        | XA146     | 11  |      | XA150  | 56        |     |      | 168         | 9    |       |       |        | TBC4BQ  | 02       | TB044A | 01     | 1                | TQ2   | A4                  |                    | 05B                |                                  |                |
| 00362   |        | XA146     | 12  |      |        |           |     |      |             |      |       |       |        | +5V     | 01       |        |        |                  | TQ2   |                     |                    |                    |                                  |                |
| 13588   |        | XA146     | 13  |      | XA149  | 61        |     |      | 168         | 9    |       |       |        | TI20C0  | 02       | TB044A | 01     | 2                | TQ2   | A4                  |                    | 06B                | I2.SHIFT PULSE                   |                |
| 08885   |        | XA146     | 14  |      |        |           |     |      |             |      |       |       |        | TBK12A  | 03       | TBK12A | 00     | 1                | TQ2   | B2                  |                    | 09A                |                                  |                |
| 08874   |        | XA146     | 15  |      | XA145  | 13        |     |      | 168         | 9    |       |       |        | TB044A  | 01       | TB044A | 00     | 1                | TQ2   | A4                  |                    | 07B                | I2.BYTE 4                        |                |
| 01935   |        | XA146     | 16  |      |        |           |     |      |             |      |       |       |        | GND     | 01       |        |        |                  | TQ2   |                     |                    | 01B                |                                  |                |
| 13546   |        | XA146     | 17  |      | XA138  | 37        |     |      | 168         | 9    |       |       |        | TI10C0  | 10       | TBK13A | 01     | 1                | TQ2   | B3                  |                    | 08B                | G01                              |                |
| 16623   |        | XA146     | 18  |      | XA135  | 46        |     |      | 168         | 9    |       |       |        | TTESPO  | 01       | TBK12A | 01     | 1                | TQ2   | B2                  |                    | 10A                |                                  |                |
| 17023   |        | XA146     | 19  |      |        |           |     |      |             |      |       |       |        | TXC7B0  | 05       | TBK13A | 01     | 2                | TQ2   | B3                  |                    | 09B                |                                  |                |
| 13580   |        | XA146     | 20  |      |        |           |     |      |             |      |       |       |        | TI20BQ  | 07       | TBK12A | 01     | 2                | TQ2   | B2                  |                    | 11A                |                                  |                |
| 08888   |        | XA146     | 21  |      |        |           |     |      |             |      |       |       |        | TBK13A  | 03       | TBK13A | 00     | 1                | TQ2   | B3                  |                    | 10B                | I1. ORED INFORMA<br>RESET BURST  |                |
| 09093   |        | XA146     | 22  |      |        |           |     |      |             |      |       |       |        | TBRREA  | 02       | TBRREA | 00     | 1                | TQ2   | B1                  |                    | 12A                |                                  |                |
| CONNECTOR (XA146) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |         |          |        |        |                  |       |                     |                    |                    |                                  |                |

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| RECORD NUMBER                                  | FROM   |           |     |        | TO     |           |     |        | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTS | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|--|--------|-----------|-----|--------|--------|-----------|-----|--------|-------------|------|-------|-------|---------|--------|----------|------|-------|------------------|-------|---------------------|--------------------|--------------------|--------|
|  | PREFIX | CONNECTOR | PIN | PLT NO | PREFIX | CONNECTOR | PIN | PLT NO | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |       |                  |       |                     |                    |                    |        |
| 09209  |        | XA146     | 23  |        | XA149  | 07        |     |        | 16B         | 9    |       |       | TBST2Q  | 04     | TBK14A   | 01   | 1     | TQ2              | B4    |                     | 11E                |                    |        |
| 09095  |        | XA146     | 24  |        |        |           |     |        |             |      |       |       | TBRREO  | 02     | TBRREA   | 01   | 1     | TQ2              | B1    |                     | 13A                |                    |        |
| 15724  |        | XA146     | 25  |        | XA136  | 62        |     |        | 16B         | 9    |       |       | YS0040  | 01     | TBK14A   | 01   | 2     | TQ2              | B4    |                     | 12B                |                    |        |
| 05181  |        | XA146     | 26  |        | XA145  | 14        |     |        | 16B         | 9    |       |       | SPI012  | 16     | TBRREA   | 01   | 2     | TQ2              | B1    |                     | 14A                |                    |        |
| 08889  |        | XA146     | 27  |        | XA136  | 20        |     |        | 16B         | 9    |       |       | TBK14A  | 01     | TBK14A   | 00   | 1     | TQ2              | B4    |                     | 13B                | STATE S13 . BOOT   |        |
| 00363  |        | XA146     | 28  |        |        |           |     |        |             |      |       |       | +5V     | 01     |          |      |       | TQ2              |       |                     |                    |                    |        |
| 09068  |        | XA146     | 29  |        |        |           |     |        |             |      |       |       | TBL22A  | 02     | TBL2A0   | 01   | 1     | TQ2              | C3    |                     | 14B                |                    |        |
| 08897  |        | XA146     | 30  |        | XA139  | 41        |     |        | 16B         | 9    |       |       | TBLDAA  | 01     | TBLDAA   | 00   | 1     | TQ2              | C2    |                     | 15A                | MODE = ZERO*.XFE   |        |
| 09066  |        | XA146     | 31  |        |        |           |     |        |             |      |       |       | TBL21A  | 02     | TBL2A0   | 01   | 2     | TQ2              | C3    |                     | 15B                |                    |        |
| 01936  |        | XA146     | 32  |        |        |           |     |        |             |      |       |       | GND     | 01     |          |      |       | TQ2              |       |                     | 20B                |                    |        |
| 09063  |        | XA146     | 33  |        | XA148  | 40        |     |        | 16B         | 9    |       |       | TBL2A0  | 01     | TBL2A0   | 00   | 1     | TQ2              | C3    |                     | 16B                | SET TBLE2          |        |
| 14110  |        | XA146     | 34  |        | XA349  | 71        |     |        | 16B         | 9    |       |       | TMDZAA  | 03     | TBLDAA   | 01   | 1     | TQ2              | C2    |                     | 16A                |                    |        |
| 09087  |        | XA146     | 35  |        |        |           |     |        |             |      |       |       | TBR10A  | 02     | TBRCP0   | 01   | 1     | TQ2              | C4    |                     | 17B                |                    |        |
| 13894  |        | XA146     | 36  |        | XA142  | 26        |     |        | 16B         | 9    |       |       | TKWXA0  | 01     | TBLDAA   | 01   | 2     | TQ2              | C2    |                     | 17A                |                    |        |
| 12560  |        | XA146     | 37  |        |        |           |     |        |             |      |       |       | YER1AA  | 03     | TBRCP0   | 01   | 2     | TQ2              | C4    |                     | 18B                |                    |        |
| 14600  |        | XA146     | 38  |        | XA345  | 01        |     |        | 16B         | 9    |       |       | TM3TOA  | 01     | TM3TOA   | 00   | 1     | TQ2              | C1    |                     | 18A                | M3 OR MEM T.O.     |        |
| 09083  |        | XA146     | 39  |        |        |           |     |        |             |      |       |       | TBRCP0  | 02     | TBRCP0   | 00   | 1     | TQ2              | C4    |                     | 19B                | BRST*.IO+ COMPARE  |        |
| 14568  |        | XA146     | 40  |        | XA143  | 59        |     |        | 16B         | 9    |       |       | TM06BP  | 02     | TM3TOA   | 01   | 1     | TQ2              | C1    |                     | 19A                |                    |        |
| 14421  |        | XA146     | 41  |        | XA345  | 31        |     |        | 16B         | 9    |       |       | TM0BSA  | 02     | TM0BLO   | 01   | 1     | TQ2              | D3    |                     | 22B                |                    |        |
| 14592  |        | XA146     | 42  |        |        |           |     |        |             |      |       |       | TM3M60  | 03     | TM3TOA   | 01   | 2     | TQ2              | C1    |                     | 20A                |                    |        |
| 09011  |        | XA146     | 43  |        | XA345  | 36        |     |        | 16B         | 9    |       |       | TBLZAO  | 04     | TM0BLO   | 01   | 2     | TQ2              | D3    |                     | 23B                |                    |        |
| 01937  |        | XA146     | 44  |        |        |           |     |        |             |      |       |       | GND     | 01     |          |      |       | TQ2              |       |                     | 21B                |                    |        |
| 14418  |        | XA146     | 45  |        | XA341  | 13        |     |        | 16B         | 9    |       |       | TM0BLO  | 01     | TM0BLO   | 00   | 1     | TQ2              | D3    |                     | 24B                | MO.BOOTSTRAP + B   |        |
| 09091  |        | XA146     | 46  |        |        |           |     |        |             |      |       |       | TBRRA0  | 04     | TBRRA0   | 00   | 1     | TQ2              | D2    |                     | 21A                | BURST REQ.I0 + B   |        |
| 09151  |        | XA146     | 47  |        | XA145  | 25        |     |        | 16B         | 9    |       |       | TBRSU0  | 08     | TBRRIA   | 01   | 1     | TQ2              | D4    |                     | 25B                |                    |        |
| 09104  |        | XA146     | 48  |        | XA149  | 15        |     |        | 16B         | 9    |       |       | TBRROA  | 02     | TBRRA0   | 01   | 1     | TQ2              | D2    |                     | 22A                |                    |        |
| 09117  |        | XA146     | 49  |        | XA146  | 56        |     |        | 16B         | 9    |       |       | TBRSAOX | 01     | TBRRIA   | 01   | 2     | TQ2              | D4    |                     | 26B                |                    |        |
| 09150  |        | XA146     | 50  |        | XA146  | 47        |     |        | 16B         | 9    |       |       | TBRSU0  | 07     | TBRRA0   | 01   | 2     | TQ2              | D2    |                     | 23A                |                    |        |
| 09107  |        | XA146     | 51  |        |        |           |     |        |             |      |       |       | TBRRIA  | 02     | TBRRIA   | 00   | 1     | TQ2              | D4    |                     | 27B                | SET TERM BURST R   |        |
| 09085  |        | XA146     | 52  |        |        |           |     |        |             |      |       |       | TBRINA  | 02     | TBRINA   | 00   | 1     | TQ2              | D1    |                     | 24A                | ENTER BURST, BUR   |        |
| 09302  |        | XA146     | 53  |        | XA237  | 08        |     |        | 16B         | 9    |       |       | TBIXA0  | 02     | TBIXAA   | 01   | 1     | TQ2              | E3    |                     | 28B                |                    |        |
| 13315  |        | XA146     | 54  |        | XA142  | 53        |     |        | 16B         | 9    |       |       | TINDAO  | 01     | TBRINA   | 01   | 1     | TQ2              | D1    |                     | 25A                |                    |        |
| 05179  |        | XA146     | 55  |        | XA145  | 40        |     |        | 16B         | 9    |       |       | SPI012  | 14     | TBIXAA   | 01   | 2     | TQ2              | E3    |                     | 29B                |                    |        |
| 09118  |        | XA146     | 56  |        | XA416  | 35        |     |        | 16B         | 9    |       |       | TBRSAOX | 02     | TBRINA   | 01   | 2     | TQ2              | D1    |                     | 26A                |                    |        |
| 09299  |        | XA146     | 57  |        | XA247  | 25        |     |        | 16B         | 9    |       |       | TBIXAA  | 01     | TBIXAA   | 00   | 1     | TQ2              | E3    |                     | 30B                | BYTE 1 TRANSFER    |        |
| 01938  |        | XA146     | 58  |        |        |           |     |        |             |      |       |       | GND     | 01     |          |      |       | TQ2              |       |                     | 27A                |                    |        |
| 09345  |        | XA146     | 59  |        | XA145  | 43        |     |        | 16B         | 9    |       |       | T83XA0  | 09     | T83XAA   | 01   | 1     | TQ2              | E4    |                     | 31B                |                    |        |
| 10704  |        | XA146     | 60  |        | XA351  | 76        |     |        | 16B         | 9    |       |       | TDE0F0  | 01     | TDE0F0   | 00   | 1     | TQ2              | E2    |                     | 28A                | DEV + BTST.S24 +   |        |
| 05178  |        | XA146     | 61  |        | XA146  | 55        |     |        | 16B         | 9    |       |       | SPI012  | 13     | T83XAA   | 01   | 2     | TQ2              | E4    |                     | 32B                |                    |        |
| 14018  |        | XA146     | 62  |        |        |           |     |        |             |      |       |       | TLUCAA  | 03     | TDE0F0   | 01   | 1     | TQ2              | E2    |                     | 29A                |                    |        |
| 09336  |        | XA146     | 63  |        |        |           |     |        |             |      |       |       | T83XAA  | 03     | T83XAA   | 00   | 1     | TQ2              | E4    |                     | 33B                | BYTE 3 TRANSFER    |        |
| 17026  |        | XA146     | 64  |        | XA140  | 75        |     |        | 16B         | 9    |       |       | TOFRAA  | 01     | TDE0F0   | 01   | 2     | TQ2              | E2    |                     | 30A                |                    |        |
| 16985  |        | XA146     | 65  |        | XA128  | 75        |     |        | 16B         | 9    |       |       | TXC2BP  | 06     | TXC2C0   | 01   | 1     | TQ2              | F3    |                     | 34B                |                    |        |
| 09108  |        | XA146     | 66  |        | XA151  | 38        |     |        | 16B         | 9    |       |       | TBR2A   | 01     | TBR2A    | 00   | 1     | TQ2              | E1    |                     | 31A                | RESET TERM BURST   |        |
| 01939  |        | XA146     | 67  |        |        |           |     |        |             |      |       |       | GND     | 01     |          |      |       | TQ2              |       |                     | 40A                |                    |        |
| 05177  |        | XA146     | 68  |        | XA146  | 61        |     |        | 16B         | 9    |       |       | SPI012  | 12     | TBR2A    | 01   | 1     | TQ2              | E1    |                     | 32A                |                    |        |
| 16997  |        | XA146     | 69  |        |        |           |     |        |             |      |       |       | TXC2C0  | 03     | TXC2C0   | 00   | 1     | TQ2              | F3    |                     | 35A                | BYTE COUNTER 2 -   |        |
| 09111  |        | XA146     | 70  |        |        |           |     |        |             |      |       |       | TBR20   | 02     | TBR2A    | 01   | 2     | TQ2              | E1    |                     | 33A                |                    |        |
| 15807  |        | XA146     | 71  |        | XA342  | 43        |     |        | 16B         | 9    |       |       | TS02A0  | 01     | TCBCAA   | 01   | 1     | TQ2              | F2    |                     | 36A                |                    |        |
| 09507  |        | XA146     | 72  |        |        |           |     |        |             |      |       |       | TCBCAA  | 02     | TCBCAA   | 00   | 1     | TQ2              | F2    |                     | 34A                | BYTE COUNTER PUL   |        |
| CONNECTOR XA146 CONTINUED ON THE NEXT PAGE *** |        |           |     |        |        |           |     |        |             |      |       |       |         |        |          |      |       |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA146  
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| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE |             |      |       | SPEC. LIST | SIGNAL | SQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO          |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|------|-------------|------|-------|------------|--------|-------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|-----------------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | ENFC | MULTI GROUP | CODE | COLOR |            |        |       |          |      |        |                  |       |                     |                    |                    |                 |
| 00869         |        | XA147     | 41                              |        |           |     |      |             |      |       |            | DNW    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 14433         |        | XA147     | 42                              |        | XA143     | 34  |      |             | 16B  | 9     |            | TM00BP | 03    | TM0SCO   | 01   | 8      | TS8              | C1    |                     | 20A                |                    |                 |
| 16972         |        | XA147     | 43                              |        | XA128     | 76  |      |             | 16B  | 9     |            | TXC13A | 01    | TXC100   | 01   | 1      | TS8              | D1    |                     | 23B                |                    |                 |
| 01943         |        | XA147     | 44                              |        |           |     |      |             |      |       |            | GND    | 01    |          |      |        |                  |       |                     | 40A                |                    |                 |
| 00870         |        | XA147     | 45                              |        |           |     |      |             |      |       |            | DNW    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 16965         |        | XA147     | 46                              |        |           |     |      |             |      |       |            | TXC11A | 02    | TXC100   | 01   | 2      | TS8              | D1    |                     | 21A                |                    |                 |
| 16962         |        | XA147     | 47                              |        | XA142     | 71  |      |             | 16B  | 9     |            | TXC100 | 02    | TXC100   | 00   | 1      | TS8              | D1    |                     | 25B                |                    | ORED DATA IN    |
| 16978         |        | XA147     | 48                              |        | XA142     | 33  |      |             | 16B  | 9     |            | TXC16A | 01    | TXC100   | 01   | 3      | TS8              | D1    |                     | 22A                |                    |                 |
| 05108         |        | XA147     | 49                              |        | XA148     | 53  |      |             | 16B  | 9     |            | SPI010 | 11    | TXC100   | 01   | 4      | TS8              | D1    |                     | 26B                |                    |                 |
| 05217         |        | XA147     | 50                              |        | XA120     | 56  |      |             | 16B  | 9     |            | SPI013 | 17    | TXC100   | 01   | 5      | TS8              | D1    |                     | 23A                |                    |                 |
| 00871         |        | XA147     | 51                              |        |           |     |      |             |      |       |            | DNW    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 16967         |        | XA147     | 52                              |        |           |     |      |             | 16B  | 9     |            | SPI011 | 35    | TXC100   | 01   | 6      | TS8              | D1    |                     | 24A                |                    | B02             |
| 00872         |        | XA147     | 53                              |        |           |     |      |             |      |       |            | DNW    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 16977         |        | XA147     | 54                              |        |           |     |      |             |      |       |            | TXC15A | 02    | TXC100   | 01   | 7      | TS8              | D1    |                     | 25A                |                    |                 |
| 14665         |        | XA147     | 55                              |        | XA346     | 08  |      |             | 16B  | 9     |            | TPEM1A | 04    | TI121A   | 01   | 1      | TS8              | E1    |                     | 29B                |                    |                 |
| 16975         |        | XA147     | 56                              |        |           |     |      |             |      |       |            | TXC14A | 02    | TXC100   | 01   | 8      | TS8              | D1    |                     | 26A                |                    |                 |
| 00873         |        | XA147     | 57                              |        |           |     |      |             |      |       |            | DNW    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 01944         |        | XA147     | 58                              |        |           |     |      |             |      |       |            | GND    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 13560         |        | XA147     | 59                              |        |           |     |      |             |      |       |            | TI121A | 02    | TI121A   | 00   | 1      | TS8              | E1    |                     | 31B                |                    | OUTPUT STATE BR |
| 15917         |        | XA147     | 60                              |        | XA351     | 70  |      |             | 16B  | 9     |            | TS06BQ | 01    | TI121A   | 01   | 2      | TS8              | E1    |                     | 28A                |                    |                 |
| 05110         |        | XA147     | 61                              |        | XA147     | 74  |      |             | 16B  | 9     |            | SPI010 | 13    | TI121A   | 01   | 3      | TS8              | E1    |                     | 32B                |                    |                 |
| 04963         |        | XA147     | 62                              |        | XA147     | 73  |      |             | 16B  | 9     |            | SPI003 | 32    | TI121A   | 01   | 4      | TS8              | E1    |                     | 29A                |                    |                 |
| 00874         |        | XA147     | 63                              |        |           |     |      |             |      |       |            | DNW    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 08751         |        | XA147     | 64                              |        | XA151     | 57  |      |             | 16B  | 9     |            | TBC1BP | 05    | TI121A   | 01   | 5      | TS8              | E1    |                     | 30A                |                    |                 |
| 00875         |        | XA147     | 65                              |        |           |     |      |             |      |       |            | DNW    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 05204         |        | XA147     | 66                              |        | XA148     | 64  |      |             | 16B  | 9     |            | SPI013 | 04    | TI121A   | 01   | 6      | TS8              | E1    |                     | 31A                |                    |                 |
| 01945         |        | XA147     | 67                              |        |           |     |      |             |      |       |            | GND    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 04970         |        | XA147     | 68                              |        | XA144     | 61  |      |             | 16B  | 9     |            | SPI004 | 05    | TI121A   | 01   | 7      | TS8              | E1    |                     | 32A                |                    |                 |
| 00876         |        | XA147     | 69                              |        |           |     |      |             |      |       |            | DNW    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 13349         |        | XA147     | 70                              |        | XA139     | 71  |      |             | 16B  | 9     |            | TIN0CA | 01    | TI121A   | 01   | 8      | TS8              | E1    |                     | 33A                |                    |                 |
| 05203         |        | XA147     | 71                              |        | XA147     | 66  |      |             | 16B  | 9     |            | SPI013 | 03    |          | 01   | 1      | TS8              | F1    |                     | 36A                |                    |                 |
| 05054         |        | XA147     | 72                              |        | XA114     | 49  |      |             | 16B  | 9     |            | SPI008 | 02    |          | 01   | 2      | TS8              | F1    |                     | 34A                |                    |                 |
| 04964         |        | XA147     | 73                              |        | XA144     | 68  |      |             | 16B  | 9     |            | SPI003 | 33    |          | 01   | 3      | TS8              | F1    |                     | 36B                |                    |                 |
| 05111         |        | XA147     | 74                              |        | XA144     | 70  |      |             | 16B  | 9     |            | SPI010 | 14    |          | 01   | 4      | TS8              | F1    |                     | 35B                |                    |                 |
| 05040         |        | XA147     | 75                              |        | XA120     | 52  |      |             | 16B  | 9     |            | SPI007 | 02    |          | 01   | 5      | TS8              | F1    |                     | 37B                |                    |                 |
| 07855         |        | XA147     | 76                              |        |           |     |      |             |      |       |            | SPO    | 01    |          | 00   | 1      | TS8              | F1    |                     | 37A                |                    |                 |
| 04969         |        | XA147     | 77                              |        | XA147     | 68  |      |             | 16B  | 9     |            | SPI004 | 04    |          | 01   | 6      | TS8              | F1    |                     | 38B                |                    |                 |
| 05004         |        | XA147     | 78                              |        | XA147     | 13  |      |             | 16B  | 9     |            | SPI005 | 01    |          | 01   | 7      | TS8              | F1    |                     | 38A                |                    |                 |
| 05027         |        | XA147     | 79                              |        | XA444     | 50  |      |             | 16B  | 9     |            | SPI006 | 04    |          | 01   | 8      | TS8              | F1    |                     | 39B                |                    |                 |
| 00877         |        | XA147     | 80                              |        |           |     |      |             |      |       |            | DNW    | 01    |          |      |        |                  |       |                     |                    |                    |                 |
| 13862         |        | XA148     | 01                              |        | XA139     | 08  |      |             | 16B  | 9     |            | TKRC2A | 04    | TMTC3N   | 01   | 1      | TDD              | 9N    |                     | 02B                |                    |                 |
| 01946         |        | XA148     | 02                              |        |           |     |      |             |      |       |            | GND    | 01    |          |      |        |                  |       |                     | 01B                |                    |                 |
| 05104         |        | XA148     | 03                              |        | XA147     | 25  |      |             | 16B  | 9     |            | SPI010 | 07    | TMTC3Q   | 01   | 1      | TDD              | BQ    |                     | 02A                |                    |                 |
| 14375         |        | XA148     | 04                              |        | XA148     | 06  |      |             | 16B  | 9     |            | TMTIMQ | 05    | TMTC3P   | 01   | 1      | TDD              | BP    |                     | 04A                |                    |                 |
| 14349         |        | XA148     | 05                              |        |           |     |      |             |      |       |            | TMTCOP | 02    | TMTC3I   | 01   | 1      | TDD              | B*    |                     | 03B                |                    |                 |
| 14376         |        | XA148     | 06                              |        |           |     |      |             |      |       |            | TMTIMQ | 06    | TMTC1P   | 01   | 1      | TDD              | AP    |                     | 05A                |                    |                 |
| 14361         |        | XA148     | 07                              |        |           |     |      |             |      |       |            | TMTC3Q | 02    | TMTC3O   | 00   | 1      | TDD              | BQ    |                     | 03A                |                    |                 |
| 14358         |        | XA148     | 08                              |        | XA151     | 07  |      |             | 16B  | 9     |            | TMTC2Q | 01    | TMTC1I   | 01   | 1      | TDD              | AI    |                     | 06A                |                    |                 |
| CONNECTOR     |        | XA148     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |             |      |       |            |        |       |          |      |        |                  |       |                     |                    |                    |                 |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA147  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 82

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SFC INST. MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|----------------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SN FC | MULTI-GROUP | CODE | COLOR |                |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 09252   |        | XA146     | 73  |        | XA137     | 68  |       |             | 16B  | 9     |                | TBS7C0  | 05     | TCBCAA   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 05202   |        | XA146     | 74  |        | XA147     | 71  |       |             | 16B  | 9     |                | SPI013  | 02     | TXC2C0   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 09352   |        | XA146     | 75  |        |           |     |       |             |      |       |                | TB4XAA  | 02     | TB4XAA   | 00   | 1      | TQ2              | F1    |                     | 37B                | BYTE 4 TRANSFER    |        |
| 16286   |        | XA146     | 76  |        | XA347     | 74  |       |             | 16B  | 9     |                | TS20BQ  | 01     | TS204A   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 05166   |        | XA146     | 77  |        | XA144     | 77  |       |             | 16B  | 9     |                | SPI012  | 01     | TB4XAA   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 14502   |        | XA146     | 78  |        | XA245     | 18  |       |             | 16B  | 9     |                | TM02PA  | 02     | TS204A   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 09354   |        | XA146     | 79  |        | XA237     | 13  |       |             | 16B  | 9     |                | TB4XA0  | 02     | TB4XAA   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 16303   |        | XA146     | 80  |        |           |     |       |             |      |       |                | TS204A  | 02     | TS204A   | 00   | 1      | TQ2              | F4    |                     | 39A                | SO2. NO XFER       |        |
| 04966   |        | XA147     | 01  |        | XA147     | 30  |       |             | 16B  | 9     |                | SPI004  | 01     |          | 01   | 1      | TS8              | A1    |                     | 02B                |                    |        |
| 01940   |        | XA147     | 02  |        |           |     |       |             |      |       |                | GND     | 01     |          |      |        | TS8              |       |                     | 01A                |                    |        |
| 00860   |        | XA147     | 03  |        |           |     |       |             |      |       |                | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 05103   |        | XA147     | 04  |        | XA148     | 03  |       |             | 16B  | 9     |                | SPI010  | 06     |          | 01   | 2      | TS8              | A1    |                     | 04A                |                    |        |
| 05211   |        | XA147     | 05  |        | XA148     | 15  |       |             | 16B  | 9     |                | SPI013  | 11     |          | 01   | 3      | TS8              | A1    |                     | 03B                |                    |        |
| 05026   |        | XA147     | 06  |        | XA147     | 79  |       |             | 16B  | 9     |                | SPI006  | 03     |          | 01   | 4      | TS8              | A1    |                     | 05A                |                    |        |
| 05053   |        | XA147     | 07  |        | XA147     | 72  |       |             | 16B  | 9     |                | SPI008  | 01     |          | 01   | 5      | TS8              | A1    |                     | 03A                |                    |        |
| 05039   |        | XA147     | 08  |        | XA147     | 75  |       |             | 16B  | 9     |                | SPI007  | 01     |          | 01   | 6      | TS8              | A1    |                     | 06A                |                    |        |
| 00861   |        | XA147     | 09  |        |           |     |       |             |      |       |                | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 04961   |        | XA147     | 10  |        | XA151     | 17  |       |             | 16B  | 9     |                | SPI003  | 30     |          | 01   | 7      | TS8              | A1    |                     | 07A                |                    |        |
| 07854   |        | XA147     | 11  |        |           |     |       |             |      |       |                | SPO     | 01     |          | 00   | 1      | TS8              | A1    |                     | 05B                |                    |        |
| 00364   |        | XA147     | 12  |        |           |     |       |             |      |       |                | +5V     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 05005   |        | XA147     | 13  |        | XA113     | 03  |       |             | 16B  | 9     |                | SPI005  | 02     |          | 01   | 8      | TS8              | A1    |                     | 06B                |                    |        |
| 16958   |        | XA147     | 14  |        |           |     |       |             |      |       |                | TXC1BQ  | 07     | TBD14A   | 01   | 1      | TS8              | B1    |                     | 09A                |                    |        |
| 00862   |        | XA147     | 15  |        |           |     |       |             |      |       |                | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 01941   |        | XA147     | 16  |        |           |     |       |             |      |       |                | GND     | 01     |          |      |        | TS8              |       |                     | 21B                |                    |        |
| 00863   |        | XA147     | 17  |        |           |     |       |             |      |       |                | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 08763   |        | XA147     | 18  |        |           |     |       |             |      |       |                | TBC1C0  | 04     | TBD14A   | 01   | 2      | TS8              | B1    |                     | 10A                |                    |        |
| 09741   |        | XA147     | 19  |        |           |     |       |             |      |       |                | TCM0BP  | 04     | TBD14A   | 01   | 3      | TS8              | B1    |                     | 09B                |                    |        |
| 13637   |        | XA147     | 20  |        | XA114     | 05  |       |             | 16B  | 9     |                | TI30BQ  | 03     | TBD14A   | 01   | 4      | TS8              | B1    |                     | 11A                |                    |        |
| 00864   |        | XA147     | 21  |        |           |     |       |             |      |       |                | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 10044   |        | XA147     | 22  |        | XA145     | 78  |       |             | 16B  | 9     |                | TC0SAB  | 02     | TBD14A   | 01   | 5      | TS8              | B1    |                     | 12A                |                    |        |
| 08830   |        | XA147     | 23  |        |           |     |       |             |      |       |                | TBD14A  | 02     | TBD14A   | 00   | 1      | TS8              | B1    |                     | 11B                | BC 1 RESET I3.C1   |        |
| 05214   |        | XA147     | 24  |        | XA147     | 37  |       |             | 16B  | 9     |                | SPI013  | 14     | TBD14A   | 01   | 6      | TS8              | B1    |                     | 13A                |                    |        |
| 05105   |        | XA147     | 25  |        | XA147     | 31  |       |             | 16B  | 9     |                | SPI010  | 08     | TBD14A   | 01   | 7      | TS8              | B1    |                     | 12B                |                    |        |
| 16990   |        | XA147     | 26  |        | XA143     | 07  |       |             | 16B  | 9     |                | TXC2BQ  | 01     | TBD14A   | 01   | 8      | TS8              | B1    |                     | 14A                |                    |        |
| 00865   |        | XA147     | 27  |        |           |     |       |             |      |       |                | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 00365   |        | XA147     | 28  |        |           |     |       |             |      |       |                | +5V     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 00866   |        | XA147     | 29  |        |           |     |       |             |      |       |                | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 04967   |        | XA147     | 30  |        | XA248     | 22  |       |             | 16B  | 9     |                | SPI004  | 02     | TMOSCO   | 01   | 1      | TS8              | C1    |                     | 15A                |                    |        |
| 05106   |        | XA147     | 31  |        | XA145     | 38  |       |             | 16B  | 9     |                | SPI010  | 09     | TMOSCO   | 01   | 2      | TS8              | C1    |                     | 15B                |                    |        |
| 01942   |        | XA147     | 32  |        |           |     |       |             |      |       |                | GND     | 01     |          |      |        | TS8              |       |                     | 27A                |                    |        |
| 00867   |        | XA147     | 33  |        |           |     |       |             |      |       |                | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 04960   |        | XA147     | 34  |        | XA147     | 10  |       |             | 16B  | 9     |                | SPI003  | 29     | TMOSCO   | 01   | 3      | TS8              | C1    |                     | 16A                |                    |        |
| 14423   |        | XA147     | 35  |        | XA148     | 54  |       |             | 16B  | 9     |                | TMOSCO  | 01     | TMOSCO   | 00   | 1      | TS8              | C1    |                     | 17B                | MO SELECTION CONT  |        |
| 14228   |        | XA147     | 36  |        | XA145     | 79  |       |             | 16B  | 9     |                | IMRUBA4 | 06     | TMOSCO   | 01   | 4      | TS8              | C1    |                     | 17A                |                    |        |
| 05215   |        | XA147     | 37  |        | XA148     | 41  |       |             | 16B  | 9     |                | SPI013  | 15     | TMOSCO   | 01   | 5      | TS8              | C1    |                     | 18B                |                    |        |
| 14596   |        | XA147     | 38  |        | XA341     | 59  |       |             | 16B  | 9     |                | TM355A  | 02     | TMOSCO   | 01   | 6      | TS8              | C1    |                     | 18A                |                    |        |
| 00868   |        | XA147     | 39  |        |           |     |       |             |      |       |                | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 13967   |        | XA147     | 40  |        |           |     |       |             |      |       |                | TMOS1A  | 02     | TMOSCO   | 01   | 7      | TS8              | C1    |                     | 19A                |                    | C10    |
| CONNECTOR XA147 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |                |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA148  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 83

| RECORD NUMBER                                   | FROM   |           |     |         | TO     |           |     |         | WIRE        |      |       |       | SPEC INET MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|---------|--------|-----------|-----|---------|-------------|------|-------|-------|----------------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE NO | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR | IDENT |                |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 20512   |        | XA148     | 09  |         |        |           |     |         |             |      |       |       | M              | TMTC3P  | 01     | TMTC3P   | 00   | 1      | TDD              | BP    |                     | 04B                | MASTER RESET, ME   |        |
| 13861   |        | XA148     | 10  |         | XA148  | 01        |     |         | 16B         | 9    |       |       |                | TKRC2A  | 03     | TMTC1N   | 01   | 1      | TDD              | AN    |                     | 07A                |                    |        |
| 14352   |        | XA148     | 11  |         | XA248  | 14        |     |         | 16B         | 9    |       |       |                | TMTC1P  | 01     | TMTC1P   | 00   | 1      | TDD              | AP    |                     | 05B                | BIT 1 MASTER RES   |        |
| 00366   |        | XA148     | 12  |         |        |           |     |         |             |      |       |       |                | +5V     | 01     |          |      |        | TDD              |       |                     |                    |                    |        |
| 14355   |        | XA148     | 13  |         |        |           |     |         |             |      |       |       |                | TMTC1Q  | 02     | TMTC1Q   | 00   | 1      | TDD              | AQ    |                     | 06B                | PRESET INPUT       |        |
| 13830   |        | XA148     | 14  |         | XA122  | 04        |     |         | 16B         | 9    |       |       |                | TKBLEA  | 04     | TBLE1N   | 01   | 1      | TDD              | DN    |                     | 09A                |                    |        |
| 05212   |        | XA148     | 15  |         | XA149  | 23        |     |         | 16B         | 9    |       |       |                | SPT013  | 12     | TMTC1Q   | 01   | 1      | TDD              | AQ    |                     | 07B                |                    |        |
| 01947   |        | XA148     | 16  |         |        |           |     |         |             |      |       |       |                | GND     | 01     |          |      |        | TDD              |       |                     | 20B                |                    |        |
| 08969   |        | XA148     | 17  |         | XA340  | 19        |     |         | 16B         | 9    |       |       |                | TBLP1A  | 01     | TBLE1Q   | 01   | 1      | TDD              | DQ    |                     | 08B                |                    |        |
| 09055   |        | XA148     | 18  |         | XA140  | 30        |     |         | 16B         | 9    |       |       |                | TBL1A0  | 01     | TBLE1I   | 01   | 1      | TDD              | DI    |                     | 10A                |                    |        |
| 08932   |        | XA148     | 19  |         |        |           |     |         |             |      |       |       |                | TBLE1Q  | 02     | TBLE1Q   | 00   | 1      | TDD              | DQ    |                     | 09B                | PRESET TBLE1       |        |
| 14198   |        | XA148     | 20  |         | XA148  | 22        |     |         | 16B         | 9    |       |       |                | TMRUAA4 | 13     | TBLE1P   | 01   | 1      | TDD              | DP    |                     | 11A                |                    |        |
| 08927   |        | XA148     | 21  |         | XA144  | 07        |     |         | 16B         | 9    |       |       |                | TBLE1P  | 01     | TBLE1P   | 00   | 1      | TDD              | DP    |                     | 10B                | MASTER RESET TBL   |        |
| 14199   |        | XA148     | 22  |         | XA148  | 36        |     |         | 16B         | 9    |       |       |                | TMRUAA4 | 14     | TBLEOP   | 01   | 1      | TDD              | CP    |                     | 12A                |                    |        |
| 08922   |        | XA148     | 23  |         | XA144  | 06        |     |         | 16B         | 9    |       |       |                | TBLEOP  | 01     | TBLEOP   | 00   | 1      | TDD              | CP    |                     | 11B                | MASTER RESET TBL   |        |
| 09050   |        | XA148     | 24  |         |        |           |     |         |             |      |       |       |                | TBL0A0  | 02     | TBLEOI   | 01   | 1      | TDD              | CI    |                     | 13A                |                    |        |
| 08926   |        | XA148     | 25  |         |        |           |     |         |             |      |       |       |                | TBLEOQ  | 03     | TBLEOQ   | 00   | 1      | TDD              | CQ    |                     | 12B                | PRESET TBLEO       |        |
| 13829   |        | XA148     | 26  |         | XA148  | 14        |     |         | 16B         | 9    |       |       |                | TKBLEA  | 03     | TBLEON   | 01   | 1      | TDD              | CN    |                     | 14A                |                    |        |
| 08968   |        | XA148     | 27  |         |        |           |     |         |             |      |       |       |                | TBLPOA  | 02     | TBLEOQ   | 01   | 1      | TDD              | CQ    |                     | 13B                |                    |        |
| 00367   |        | XA148     | 28  |         |        |           |     |         |             |      |       |       |                | +5V     | 01     |          |      |        | TDD              |       |                     |                    |                    |        |
| 08973   |        | XA148     | 29  |         | XA340  | 36        |     |         | 16B         | 9    |       |       |                | TBLP3A  | 01     | TBLE3Q   | 01   | 1      | TDD              | FQ    |                     | 14B                |                    |        |
| 13828   |        | XA148     | 30  |         | XA148  | 26        |     |         | 16B         | 9    |       |       |                | TKBLEA  | 02     | TBLE3N   | 01   | 1      | TDD              | FN    |                     | 15A                |                    |        |
| 08949   |        | XA148     | 31  |         |        |           |     |         |             |      |       |       |                | TBLE3Q  | 03     | TBLE3Q   | 00   | 1      | TDD              | FQ    |                     | 15B                | PRESET TBLE3       |        |
| 01948   |        | XA148     | 32  |         |        |           |     |         |             |      |       |       |                | GND     | 01     |          |      |        | TDD              |       |                     | 21B                |                    |        |
| 08944   |        | XA148     | 33  |         | XA140  | 31        |     |         | 16B         | 9    |       |       |                | TBLE3P  | 04     | TBLE3P   | 00   | 1      | TDD              | FP    |                     | 16B                | MASTER RESET TBL   |        |
| 09070   |        | XA148     | 34  |         |        |           |     |         |             |      |       |       |                | TBL3A0  | 02     | TBLE3I   | 01   | 1      | TDD              | FI    |                     | 16A                |                    |        |
| 08938   |        | XA148     | 35  |         |        |           |     |         |             |      |       |       |                | TBLE2P  | 06     | TBLE2P   | 00   | 1      | TDD              | EP    |                     | 17B                | MASTER RESET TBL   |        |
| 14200   |        | XA148     | 36  |         | XA148  | 38        |     |         | 16B         | 9    |       |       |                | TMRUAA4 | 15     | TBLE3P   | 01   | 1      | TDD              | FP    |                     | 17A                |                    |        |
| 08940   |        | XA148     | 37  |         |        |           |     |         |             |      |       |       |                | TBLE2Q  | 02     | TBLE2Q   | 00   | 1      | TDD              | EQ    |                     | 18B                | PRESET TBLE2       |        |
| 14201   |        | XA148     | 38  |         | XA148  | 70        |     |         | 16B         | 9    |       |       |                | TMRUAA4 | 16     | TBLE2P   | 01   | 1      | TDD              | EP    |                     | 18A                |                    |        |
| 08972   |        | XA148     | 39  |         |        |           |     |         |             |      |       |       |                | TBLP2A  | 02     | TBLE2Q   | 01   | 1      | TDD              | EQ    |                     | 19B                |                    |        |
| 09064   |        | XA148     | 40  |         |        |           |     |         |             |      |       |       |                | TBL2A0  | 02     | TBLE2I   | 01   | 1      | TDD              | EI    |                     | 19A                |                    |        |
| 05216   |        | XA148     | 41  |         | XA147  | 50        |     |         | 16B         | 9    |       |       |                | SPT013  | 16     | TM02BQ   | 01   | 1      | TDD              | HQ    |                     | 22B                |                    |        |
| 13827   |        | XA148     | 42  |         | XA148  | 30        |     |         | 16B         | 9    |       |       |                | TKBLEA  | 01     | TBLE2N   | 01   | 1      | TDD              | EN    |                     | 20A                |                    |        |
| 14492   |        | XA148     | 43  |         | XA143  | 30        |     |         | 16B         | 9    |       |       |                | TM02BQ  | 05     | TM02BQ   | 00   | 1      | TDD              | HQ    |                     | 23B                |                    |        |
| 01949   |        | XA148     | 44  |         |        |           |     |         |             |      |       |       |                | GND     | 01     |          |      |        | TDD              |       |                     | 27A                |                    |        |
| 14486   |        | XA148     | 45  |         | XA245  | 27        |     |         | 16B         | 9    |       |       |                | TM02BP  | 01     | TM02BP   | 00   | 1      | TDD              | HP    |                     | 24B                | RESET M2, M3+M6+   |        |
| 13858   |        | XA148     | 46  |         |        |           |     |         |             |      |       |       |                | TKM1BA  | 02     | TM02BN   | 01   | 1      | TDD              | HN    |                     | 21A                |                    |        |
| 14432   |        | XA148     | 47  |         | XA147  | 42        |     |         | 16B         | 9    |       |       |                | TM00BP  | 02     | TM00BP   | 00   | 1      | TDD              | GP    |                     | 25B                | RESET M00 WHEN M   |        |
| 14463   |        | XA148     | 48  |         | XA149  | 18        |     |         | 16B         | 9    |       |       |                | TM01BQ  | 05     | TM02BI   | 01   | 1      | TDD              | HI    |                     | 22A                |                    |        |
| 14442   |        | XA148     | 49  |         | XA206  | 41        |     |         | 16B         | 9    |       |       |                | TM00BQ  | 005    | TM00BQ   | 00   | 1      | TDD              | GQ    |                     | 26B                | SELECT M0 PRESET   |        |
| 14501   |        | XA148     | 50  |         | XA146  | 78        |     |         | 16B         | 9    |       |       |                | TM02PA  | 01     | TM02BP   | 01   | 1      | TDD              | HP    |                     | 23A                |                    |        |
| 14608   |        | XA148     | 51  |         |        |           |     |         |             |      |       |       |                | TM4DSA  | 02     | TM00BQ   | 01   | 1      | TDD              | GQ    |                     | 27B                |                    |        |
| 14455   |        | XA148     | 52  |         | XA245  | 23        |     |         | 16B         | 9    |       |       |                | TM01BP  | 02     | TM00BP   | 01   | 1      | TDD              | GP    |                     | 24A                |                    |        |
| 05109   |        | XA148     | 53  |         | XA147  | 61        |     |         | 16B         | 9    |       |       |                | SPT010  | 12     | TSTBRQ   | 01   | 1      | TDD              | KQ    |                     | 28B                | PRESET STOP BURS   |        |
| 14424   |        | XA148     | 54  |         |        |           |     |         |             |      |       |       |                | TMOSCO  | 02     | TM00BI   | 01   | 1      | TDD              | GI    |                     | 25A                |                    |        |
| 15679   |        | XA148     | 55  |         |        |           |     |         |             |      |       |       |                | TSTBRQ  | 04     | TSTBRQ   | 00   | 1      | TDD              | KQ    |                     | 29B                |                    |        |
| 13821   |        | XA148     | 56  |         | XA148  | 60        |     |         | 16B         | 9    |       |       |                | TKBACB  | 19     | TM00BN   | 01   | 1      | TDD              | GN    |                     | 26A                |                    |        |
| 20524   |        | XA148     | 57  |         |        |           |     |         |             |      |       |       |                | TSTBRP  | 01     | TSTBRP   | 00   | 1      | TDD              | KP    |                     | 30B                |                    |        |
| 01950   |        | XA148     | 58  |         |        |           |     |         |             |      |       |       |                | GND     | 01     |          |      |        | TDD              |       |                     | 40A                |                    |        |
| CONNECTOR XA148 CONTINUED ON THE NEXT PAGE **** |        |           |     |         |        |           |     |         |             |      |       |       |                |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA148  
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| RECORD NUMBER                                     | FROM   |           |     | TO  |           |      | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO              |     |
|---|--------|-----------|-----|-----|-----------|------|-------------|------|-------|-------|--------|---------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|---------------------|-----|
|   | PREFIX | CONNECTOR | PIN | PIN | CONNECTOR | INFO | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |        |        |                  |       |                     |                    |                    |                     |     |
| 09125   |        | XA148     | 59  |     | XA136     | 66   |             |      | 168   | 9     |        | TBRSTP  | 06       | TBRSTP | 00     | 1                | TDD   | JP                  |                    | 31B                | RESET BURST         |     |
| 13822   |        | XA148     | 60  |     | XA151     | 56   |             |      | 168   | 9     |        | TKBACB  | 20       | TSTBRN | 01     | 1                | TDD   | KN                  |                    | 28A                |                     |     |
| 09131   |        | XA148     | 61  |     | XA141     | 71   |             |      | 168   | 9     |        | TBRSTQ  | 04       | TBRSTQ | 00     | 1                | TDD   | JQ                  |                    | 32B                | SET BURST MODE      |     |
| 15681   |        | XA148     | 62  |     |           |      |             |      |       |       |        | TSTBRO  | 02       | TSTBRI | 01     | 1                | TDD   | KI                  |                    | 29A                |                     |     |
| 09084   |        | XA148     | 63  |     | XA146     | 52   |             |      | 168   | 9     |        | TBRINA  | 01       | TBRSTQ | 01     | 1                | TDD   | JQ                  |                    | 33B                |                     |     |
| 05205   |        | XA148     | 64  |     | XA151     | 63   |             |      | 168   | 9     |        | SPI013  | 05       | TSTBRP | 01     | 1                | TDD   | KP                  |                    | 30A                |                     |     |
| 14895   |        | XA148     | 65  |     | XA142     | 51   |             |      | 168   | 9     |        | TPS20A  | 03       | TBC4BQ | 01     | 1                | TDD   | MQ                  |                    | 34B                |                     |     |
| 09092   |        | XA148     | 66  |     | XA146     | 22   |             |      | 168   | 9     |        | TBRREA  | 01       | TBRSTP | 01     | 1                | TDD   | JP                  |                    | 31A                |                     |     |
| 01951   |        | XA148     | 67  |     |           |      |             |      |       |       |        | GND     | 01       |        |        |                  | TDD   |                     |                    | 40B                |                     |     |
| 14745   |        | XA148     | 68  |     | XA113     | 62   |             |      | 168   | 9     |        | TPGNDA  | 04       | TBRSTI | 01     | 1                | TDD   | JI                  |                    | 32A                |                     |     |
| 08804   |        | XA148     | 69  |     | XA139     | 64   |             |      | 168   | 9     |        | TBC4BP  | 05       | TBC4BP | 00     | 1                | TDD   | MP                  |                    | 35A                | BYTE COUNTER-4 F    |     |
| 14202   |        | XA148     | 70  |     | XA143     | 66   |             |      | 168   | 9     |        | TMRUAA4 | 17       | TBRSTN | 01     | 1                | TDD   | JN                  |                    | 33A                |                     |     |
| 08868   |        | XA148     | 71  |     | XA137     | 27   |             |      | 168   | 9     |        | TBD400  | 01       | TBC4BI | 01     | 1                | TDD   | MI                  |                    | 36A                |                     |     |
| 08893   |        | XA148     | 72  |     | XA139     | 43   |             |      | 168   | 9     |        | TBK20A  | 03       | TBC4BN | 01     | 1                | TDD   | MN                  |                    | 34A                |                     |     |
| 08746   |        | XA148     | 73  |     |           |      |             |      |       |       |        | TBCRSA  | 05       | TBC4BP | 01     | 1                | TDD   | MP                  |                    | 36B                |                     |     |
| 08810   |        | XA148     | 74  |     | XA332     | 78   |             |      | 168   | 9     |        | TBC4BQ  | 04       | TBC4BQ | 00     | 1                | TDD   | MQ                  |                    | 35B                | BYTE COUNTER-4 F    |     |
| 13441   |        | XA148     | 75  |     | XA143     | 75   |             |      | 168   | 9     |        | TITIMQ  | 02       | TITC1P | 01     | 1                | TDD   | LP                  |                    | 37B                |                     |     |
| 20499   |        | XA148     | 76  |     | XA144     | 72   |             |      | 168   | 9     |        | TITC1P  | 01       | TITC1P | 00     | 1                | TDD   | LP                  |                    | 37A                | I/O TIMER BIT 2,005 |     |
| 13438   |        | XA148     | 77  |     | XA143     | 78   |             |      | 168   | 9     |        | TITC2Q  | 01       | TITC1I | 01     | 1                | TDD   | LI                  |                    | 38B                |                     |     |
| 13434   |        | XA148     | 78  |     |           |      |             |      |       |       |        | TITC1Q  | 02       | TITC1Q | 00     | 1                | TDD   | LQ                  |                    | 38A                | PRESET              | 005 |
| 04792   |        | XA148     | 79  |     | XA151     | 70   |             |      | 168   | 9     |        | RTCQ9A  | 05       | TITC1N | 01     | 1                | TDD   | LN                  |                    | 39B                |                     |     |
| 05201   |        | XA148     | 80  |     | XA146     | 74   |             |      | 168   | 9     |        | SPI013  | 01       | TITC1Q | 01     | 1                | TDD   | LQ                  |                    | 39A                |                     |     |
| 14448   |        | XA149     | 01  |     | XA140     | 70   |             |      | 168   | 9     |        | TM01AA  | 01       | TM01AA | 00     | 1                | TQ2   | A2                  |                    | 02B                | SEL M1              |     |
| 01952   |        | XA149     | 02  |     |           |      |             |      |       |       |        | GND     | 01       |        |        |                  | TQ2   |                     |                    | 01A                |                     |     |
| 08916   |        | XA149     | 03  |     | XA144     | 11   |             |      | 168   | 9     |        | TBLEZA  | 01       | TM0BSA | 01     | 1                | TQ2   | A3                  |                    | 02A                |                     |     |
| 14446   |        | XA149     | 04  |     |           |      |             |      |       |       |        | TM00C0  | 04       | TM01AA | 01     | 1                | TQ2   | A2                  |                    | 04A                |                     |     |
| 14480   |        | XA149     | 05  |     | XA250     | 11   |             |      | 168   | 9     |        | TM01I0  | 01       | TM01AA | 01     | 2                | TQ2   | A2                  |                    | 03B                |                     |     |
| 08854   |        | XA149     | 06  |     |           |      |             |      |       |       |        | TBD27A  | 04       | TBD27A | 00     | 1                | TQ2   | A1                  |                    | 05A                | PRESET MO INPUT     |     |
| 09210   |        | XA149     | 07  |     | XA343     | 17   |             |      | 168   | 9     |        | TBST2Q  | 05       | TM0BSA | 01     | 2                | TQ2   | A3                  |                    | 03A                |                     |     |
| 09184   |        | XA149     | 08  |     | XA150     | 49   |             |      | 168   | 9     |        | TBST1Q  | 06       | TBD27A | 01     | 1                | TQ2   | A1                  |                    | 06A                |                     |     |
| 14420   |        | XA149     | 09  |     | XA146     | 41   |             |      | 168   | 9     |        | TM0BSA  | 01       | TM0BSA | 00     | 1                | TQ2   | A3                  |                    | 04B                | BL EXT#0 BOOTSTRA   |     |
| 08737   |        | XA149     | 10  |     | XA340     | 18   |             |      | 168   | 9     |        | TBB7A0  | 04       | TBD27A | 01     | 2                | TQ2   | A1                  |                    | 07A                |                     |     |
| 09099   |        | XA149     | 11  |     | XA151     | 37   |             |      | 168   | 9     |        | TBRKFQ  | 01       | TBRROA | 01     | 1                | TQ2   | A4                  |                    | 05B                |                     |     |
| 00368   |        | XA149     | 12  |     |           |      |             |      |       |       |        | +5V     | 01       |        |        |                  | TQ2   |                     |                    |                    |                     |     |
| 13273   |        | XA149     | 13  |     | XA205     | 13   |             |      | 168   | 9     |        | TIAZA0  | 04       | TBRROA | 01     | 2                | TQ2   | A4                  |                    | 06B                |                     |     |
| 13857   |        | XA149     | 14  |     | XA148     | 46   |             |      | 168   | 9     |        | TKM1BA  | 01       | TKM1BA | 00     | 1                | TQ2   | B2                  |                    | 09A                | M1 AND CLK          |     |
| 09105   |        | XA149     | 15  |     |           |      |             |      |       |       |        | TBRROA  | 03       | TBRROA | 00     | 1                | TQ2   | A4                  |                    | 07B                | BURST REQ .I0       |     |
| 01953   |        | XA149     | 16  |     |           |      |             |      |       |       |        | GND     | 01       |        |        |                  | TQ2   |                     |                    | 01B                |                     |     |
| 14509   |        | XA149     | 17  |     | XA151     | 31   |             |      | 168   | 9     |        | TM03BQ  | 01       | TM032A | 01     | 1                | TQ2   | B3                  |                    | 08B                |                     |     |
| 14464   |        | XA149     | 18  |     | XA151     | 19   |             |      | 168   | 9     |        | TM01BQ  | 06       | TKM1BA | 01     | 1                | TQ2   | B2                  |                    | 10A                |                     |     |
| 14332   |        | XA149     | 19  |     | XA150     | 62   |             |      | 168   | 9     |        | TMS3BQ  | 01       | TM032A | 01     | 2                | TQ2   | B3                  |                    | 09B                |                     |     |
| 13669   |        | XA149     | 20  |     | XA144     | 18   |             |      | 168   | 9     |        | TKAAAB  | 01       | TKM1BA | 01     | 2                | TQ2   | B2                  |                    | 11A                |                     |     |
| 14538   |        | XA149     | 21  |     |           |      |             |      |       |       |        | TM032A  | 02       | TM032A | 00     | 1                | TQ2   | B3                  |                    | 10B                | M03 ON, LEAVE ON    |     |
| 14452   |        | XA149     | 22  |     | XA140     | 68   |             |      | 168   | 9     |        | TM01BA  | 01       | TM01BA | 00     | 1                | TQ2   | B1                  |                    | 12A                | SEL M1              |     |
| 05213   |        | XA149     | 23  |     | XA147     | 24   |             |      | 168   | 9     |        | SPI013  | 13       | TSA2BC | 01     | 1                | TQ2   | B4                  |                    | 11B                |                     |     |
| 14483   |        | XA149     | 24  |     |           |      |             |      |       |       |        | TM0120  | 02       | TM01BA | 01     | 1                | TQ2   | B1                  |                    | 13A                |                     |     |
| 15607   |        | XA149     | 25  |     | XA248     | 31   |             |      | 168   | 9     |        | TSA2BA  | 02       | TSA2B0 | 01     | 2                | TQ2   | B4                  |                    | 12B                |                     |     |
| 14445   |        | XA149     | 26  |     | XA149     | 04   |             |      | 168   | 9     |        | TM00C0  | 03       | TM01BA | 01     | 2                | TQ2   | B1                  |                    | 14A                |                     |     |
| CONNECTOR (XA149) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |           |      |             |      |       |       |        |         |          |        |        |                  |       |                     |                    |                    |                     |     |



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 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 85

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL     | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|------------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |            |        |          |      |      |                  |       |                     |                    |                    |        |
| 15610         |        | XA149     | 27                              |      | XA140  | 61        |     |      |             | 168  | 9     |       | TSA2B0 +5V | 01     | TSA2B0   | 00   | 1    | TQ2              | B4    |                     | 13B                | SPECIAL ADD.02-0   |        |
| 00369         |        | XA149     | 28                              |      |        |           |     |      |             |      |       |       |            |        |          |      |      |                  |       |                     |                    |                    |        |
| 09168         |        | XA149     | 29                              |      | XA150  | 57        |     |      |             | 168  | 9     |       | TBST1P     | 05     | TM3B50   | 01   | 1    | TQ2              | C3    |                     | 14B                |                    |        |
| 14583         |        | XA149     | 30                              |      | XA150  | 60        |     |      |             | 168  | 9     |       | TM2M60     | 01     | TM2M60   | 00   | 1    | TQ2              | C2    |                     | 15A                | CONTROL M2.+0 M    |        |
| 09675         |        | XA149     | 31                              |      | XA245  | 51        |     |      |             | 168  | 9     |       | TC016A     | 01     | TM3B50   | 01   | 2    | TQ2              | C3    |                     | 15B                |                    |        |
| 01954         |        | XA149     | 32                              |      |        |           |     |      |             |      |       |       | GND        | 01     |          |      |      | TQ2              |       |                     | 20B                |                    |        |
| 14588         |        | XA149     | 33                              |      | XA345  | 08        |     |      |             | 168  | 9     |       | TM3B50     | 01     | TM3B50   | 00   | 1    | TQ2              | C3    |                     | 16B                | M3 + BOOTSTRAP1    |        |
| 09316         |        | XA149     | 34                              |      | XA145  | 39        |     |      |             | 168  | 9     |       | TB135A     | 02     | TM2M60   | 01   | 1    | TQ2              | C2    |                     | 16A                |                    |        |
| 14511         |        | XA149     | 35                              |      | XA149  | 56        |     |      |             | 168  | 9     |       | TM03BQ     | 03     | TM3S5A   | 01   | 1    | TQ2              | C4    |                     | 17B                |                    |        |
| 16118         |        | XA149     | 36                              |      |        |           |     |      |             |      |       |       | TS13WA     | 04     | TM2M60   | 01   | 2    | TQ2              | C2    |                     | 17A                |                    |        |
| 15894         |        | XA149     | 37                              |      | XA348  | 68        |     |      |             | 168  | 9     |       | TS05BQ     | 01     | TM3S5A   | 01   | 2    | TQ2              | C4    |                     | 18B                |                    |        |
| 14563         |        | XA149     | 38                              |      | XA139  | 59        |     |      |             | 168  | 9     |       | TM051A     | 01     | TM051A   | 00   | 1    | TQ2              | C1    |                     | 18A                | M3.S04.NO MEM P.   |        |
| 14595         |        | XA149     | 39                              |      | XA147  | 38        |     |      |             | 168  | 9     |       | TM3S5A     | 01     | TM3S5A   | 00   | 1    | TQ2              | C4    |                     | 19B                | M3 AND S5          |        |
| 15879         |        | XA149     | 40                              |      |        |           |     |      |             |      |       |       | TS04BQ     | 07     | TM051A   | 01   | 1    | TQ2              | C1    |                     | 19A                |                    |        |
| 14324         |        | XA149     | 41                              |      |        |           |     |      |             |      |       |       | TMSNOP     | 02     | TM4SNO   | 01   | 1    | TQ2              | D3    |                     | 22B                |                    |        |
| 09682         |        | XA149     | 42                              |      | XA246  | 59        |     |      |             | 168  | 9     |       | TC0160     | 04     | TM051A   | 01   | 2    | TQ2              | C1    |                     | 20A                |                    |        |
| 14540         |        | XA149     | 43                              |      | XA145  | 77        |     |      |             | 168  | 9     |       | TM400A     | 01     | TM4SNO   | 01   | 2    | TQ2              | O3    |                     | 23B                |                    | 005    |
| 01955         |        | XA149     | 44                              |      |        |           |     |      |             |      |       |       | GND        | 01     |          |      |      | TQ2              |       |                     | 21B                |                    |        |
| 14613         |        | XA149     | 45                              |      |        |           |     |      |             |      |       |       | TM4SNO     | 05     | TM4SNO   | 00   | 1    | TQ2              | D3    |                     | 24B                | M4 + MEN SYNC FF   |        |
| 14607         |        | XA149     | 46                              |      | XA148  | 51        |     |      |             | 168  | 9     |       | TM4DSA     | 01     | TM4DSA   | 00   | 1    | TQ2              | D2    |                     | 21A                | M4 AND DATA STRO   |        |
| 14556         |        | XA149     | 47                              |      | XA151  | 45        |     |      |             | 168  | 9     |       | TM05BP     | 04     | TM5BR0   | 01   | 1    | TQ2              | D4    |                     | 25B                |                    |        |
| 14058         |        | XA149     | 48                              |      |        |           |     |      |             |      |       |       | TMC3A0     | 03     | TM4DSA   | 01   | 1    | TQ2              | D2    |                     | 22A                |                    |        |
| 09142         |        | XA149     | 49                              |      | XA150  | 03        |     |      |             | 168  | 9     |       | TBR5UA     | 08     | TM5BR0   | 01   | 2    | TQ2              | D4    |                     | 26B                |                    |        |
| 14547         |        | XA149     | 50                              |      | XA145  | 59        |     |      |             | 168  | 9     |       | TM04BQ     | 03     | TM4DSA   | 01   | 2    | TQ2              | D2    |                     | 23A                |                    |        |
| 14617         |        | XA149     | 51                              |      |        |           |     |      |             |      |       |       | TM5BR0     | 04     | TM5BR0   | 00   | 1    | TQ2              | D4    |                     | 27B                | M5 OR BURST        |        |
| 14599         |        | XA149     | 52                              |      |        |           |     |      |             |      |       |       | TM3S7A     | 02     | TM3S7A   | 00   | 1    | TQ2              | D1    |                     | 24A                | M3 AND S7          |        |
| 08826         |        | XA149     | 53                              |      |        |           |     |      |             |      |       |       | TBD12A     | 02     | TBD100   | 01   | 1    | TQ2              | E3    |                     | 28B                |                    |        |
| 15938         |        | XA149     | 54                              |      | XA142  | 41        |     |      |             | 168  | 9     |       | TS07BQ     | 02     | TM3S7A   | 01   | 1    | TQ2              | D1    |                     | 25A                |                    |        |
| 13522         |        | XA149     | 55                              |      | XA333  | 60        |     |      |             | 168  | 9     |       | TII0BP     | 03     | TBD100   | 01   | 2    | TQ2              | E3    |                     | 29B                |                    |        |
| 14512         |        | XA149     | 56                              |      | XA245  | 35        |     |      |             | 168  | 9     |       | TM03BQ     | 04     | TM3S7A   | 01   | 2    | TQ2              | D1    |                     | 26A                |                    |        |
| 08823         |        | XA149     | 57                              |      | XA151  | 62        |     |      |             | 168  | 9     |       | TBD100     | 01     | TBD100   | 00   | 1    | TQ2              | E3    |                     | 30B                | BC 1 ORED DATA     |        |
| 01956         |        | XA149     | 58                              |      |        |           |     |      |             |      |       |       | GND        | 01     |          |      |      | TQ2              |       |                     | 27A                |                    |        |
| 08770         |        | XA149     | 59                              |      | XA139  | 61        |     |      |             | 168  | 9     |       | TBC2BP     | 06     | TBD13A   | 01   | 1    | TQ2              | E4    |                     | 31B                |                    |        |
| 08705         |        | XA149     | 60                              |      | XA150  | 77        |     |      |             | 168  | 9     |       | TBB120     | 01     | TBB120   | 00   | 1    | TQ2              | E2    |                     | 28A                | BYTE 1+2 BOOTSTR   |        |
| 13589         |        | XA149     | 61                              |      | XA149  | 65        |     |      |             | 168  | 9     |       | TI20C0     | 03     | TBD13A   | 01   | 2    | TQ2              | E4    |                     | 32B                |                    |        |
| 08698         |        | XA149     | 62                              |      | XA150  | 20        |     |      |             | 168  | 9     |       | TBB1AA     | 01     | TBB120   | 01   | 1    | TQ2              | E2    |                     | 29A                |                    |        |
| 08827         |        | XA149     | 63                              |      | XA136  | 38        |     |      |             | 168  | 9     |       | TBD13A     | 01     | TBD13A   | 00   | 1    | TQ2              | E4    |                     | 33B                | BC 1 RESET I2.BY   |        |
| 08708         |        | XA149     | 64                              |      | XA150  | 19        |     |      |             | 168  | 9     |       | TBB2AA     | 01     | TBB120   | 01   | 2    | TQ2              | E2    |                     | 30A                |                    |        |
| 13590         |        | XA149     | 65                              |      | XA205  | 37        |     |      |             | 168  | 9     |       | TI20C0     | 04     | TBD25A   | 01   | 1    | TQ2              | F3    |                     | 34B                |                    |        |
| 09870         |        | XA149     | 66                              |      | XA245  | 75        |     |      |             | 168  | 9     |       | TCPO40     | 01     | TCPO40   | 00   | 1    | TQ2              | E1    |                     | 31A                | BTSP I2* +CPU.REQ  |        |
| 01957         |        | XA149     | 67                              |      |        |           |     |      |             |      |       |       | GND        | 01     |          |      |      | TQ2              |       |                     | 40A                |                    |        |
| 13651         |        | XA149     | 68                              |      | XA340  | 09        |     |      |             | 168  | 9     |       | TI311A     | 07     | TCPO40   | 01   | 1    | TQ2              | E1    |                     | 32A                |                    |        |
| 08848         |        | XA149     | 69                              |      |        |           |     |      |             |      |       |       | TBD25A     | 02     | TBD25A   | 00   | 1    | TQ2              | F3    |                     | 35A                | I2-BYTE 3*         |        |
| 09853         |        | XA149     | 70                              |      | XA338  | 66        |     |      |             | 168  | 9     |       | TCPO6A     | 01     | TCPO40   | 01   | 2    | TQ2              | E1    |                     | 33A                |                    | 005    |
| 09251         |        | XA149     | 71                              |      | XA146  | 73        |     |      |             | 168  | 9     |       | TBS7C0     | 04     | TBD22A   | 01   | 1    | TQ2              | F2    |                     | 36A                |                    |        |
| 08841         |        | XA149     | 72                              |      |        |           |     |      |             |      |       |       | TBD22A     | 02     | TBD22A   | 00   | 1    | TQ2              | F2    |                     | 34A                | BOOTSTRAP 1.2.BY   |        |
| 08769         |        | XA149     | 73                              |      | XA149  | 59        |     |      |             | 168  | 9     |       | TBC2BP     | 05     | TBD22A   | 01   | 2    | TQ2              | F2    |                     | 36B                |                    |        |
| 08785         |        | XA149     | 74                              |      | XA151  | 69        |     |      |             | 168  | 9     |       | TBC3BP     | 01     | TBD25A   | 01   | 2    | TQ2              | F3    |                     | 35B                |                    |        |
| 08838         |        | XA149     | 75                              |      | XA137  | 14        |     |      |             | 168  | 9     |       | TBD21A     | 01     | TBD21A   | 00   | 1    | TQ2              | F1    |                     | 37B                | I1.C1*.BYTE 1      |        |
| 09250         |        | XA149     | 76                              |      | XA149  | 71        |     |      |             | 168  | 9     |       | TBS7C0     | 03     | TBD26A   | 01   | 1    | TQ2              | F4    |                     | 37A                |                    |        |
| CONNECTOR     |        | XA149     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |            |        |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA149  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 86

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       | SFC INST WIRE | SIGNAL | SFC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO               |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|----------------------|
|   | PREFIX | CONNECTOR | PIN | LINE | PREFIX | CONNECTOR | PIN | LINE | MULTI GROUP | CODE | COLOR |               |        |        |          |      |        |                  |       |                     |                    |                    |                      |
| 08757   |        | XA149     | 77  |      | XA128  | 74        |     |      | 16B         | 9    |       |               | TBC1BQ | 05     | TBD21A   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |                      |
| 08777   |        | XA149     | 78  |      | XA151  | 78        |     |      | 16B         | 9    |       |               | TBC2BQ | 06     | TBD26A   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |                      |
| 13518   |        | XA149     | 79  |      | XA205  | 72        |     |      | 16B         | 9    |       |               | TI1C10 | 03     | TBD21A   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |                      |
| 08849   |        | XA149     | 80  |      | XA136  | 30        |     |      | 16B         | 9    |       |               | TBD26A | 01     | TBD26A   | 00   | 1      | TQ2              | F4    |                     | 39A                |                    | BOOTSTRAP 1.2 .      |
| 09292   |        | XA150     | 01  |      | XA141  | 18        |     |      | 16B         | 9    |       |               | TBZZ1A | 01     | TM3BB0   | 01   | 1      | TT3              | A2    |                     | 02B                |                    |                      |
| 01958   |        | XA150     | 02  |      |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TT3              |       |                     | 01B                |                    |                      |
| 09143   |        | XA150     | 03  |      |        |           |     |      |             |      |       |               | TBR5UA | 09     | TM3BB0   | 01   | 2      | TT3              | A2    |                     | 02A                |                    |                      |
| 15836   |        | XA150     | 04  |      | XA341  | 47        |     |      | 16B         | 9    |       |               | TSO21A | 01     | TSO21A   | 00   | 1      | TT3              | A1    |                     | 04A                |                    | S02. NO SELECT S0    |
| 14516   |        | XA150     | 05  |      |        |           |     |      |             |      |       |               | TM03CA | 02     | TM3BB0   | 01   | 3      | TT3              | A2    |                     | 03B                |                    |                      |
| 15829   |        | XA150     | 06  |      |        |           |     |      |             |      |       |               | TSO2BQ | 08     | TSO21A   | 01   | 1      | TT3              | A1    |                     | 05A                |                    |                      |
| 14587   |        | XA150     | 07  |      |        |           |     |      |             |      |       |               | TM3BB0 | 02     | TM3BB0   | 00   | 1      | TT3              | A2    |                     | 03A                |                    | M3 + BURST + B00     |
| 15861   |        | XA150     | 08  |      | XA345  | 59        |     |      | 16B         | 9    |       |               | TSO31A | 01     | TSO21A   | 01   | 2      | TT3              | A1    |                     | 06A                |                    |                      |
| 14326   |        | XA150     | 09  |      | XA150  | 70        |     |      | 16B         | 9    |       |               | TMS3BP | 02     | TM3NPA   | 01   | 1      | TT3              | A3    |                     | 04B                |                    |                      |
| 13450   |        | XA150     | 10  |      | XA143  | 57        |     |      | 16B         | 9    |       |               | TITMRP | 01     | TSO21A   | 01   | 3      | TT3              | A1    |                     | 07A                |                    |                      |
| 16535   |        | XA150     | 11  |      | XA122  | 47        |     |      | 16B         | 9    |       |               | TS8210 | 02     | TM3NPA   | 01   | 2      | TT3              | A3    |                     | 05B                |                    |                      |
| 00370   |        | XA150     | 12  |      |        |           |     |      |             |      |       |               | +5V    | 01     |          |      |        | TT3              |       |                     |                    |                    |                      |
| 14689   |        | XA150     | 13  |      |        |           |     |      |             |      |       |               | TPEM30 | 03     | TM3NPA   | 01   | 3      | TT3              | A3    |                     | 06B                |                    |                      |
| 08794   |        | XA150     | 14  |      | XA150  | 25        |     |      | 16B         | 9    |       |               | TBC38Q | 04     | TBB2AA   | 01   | 1      | TT3              | B2    |                     | 09A                |                    |                      |
| 14594   |        | XA150     | 15  |      | XA113  | 80        |     |      | 16B         | 9    |       |               | TM3NPA | 02     | TM3NPA   | 00   | 1      | TT3              | A3    |                     | 07B                |                    | M3.PE*(S8+S10+S10)03 |
| 01959   |        | XA150     | 16  |      |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TT3              |       |                     | 21B                |                    |                      |
| 08765   |        | XA150     | 17  |      | XA150  | 35        |     |      | 16B         | 9    |       |               | TBC28P | 01     | TBB2AA   | 01   | 2      | TT3              | B2    |                     | 08B                |                    |                      |
| 08801   |        | XA150     | 18  |      | XA150  | 24        |     |      | 16B         | 9    |       |               | TBC48P | 02     | TBB2AA   | 01   | 3      | TT3              | B2    |                     | 10A                |                    |                      |
| 08709   |        | XA150     | 19  |      | XA139  | 05        |     |      | 16B         | 9    |       |               | TBB2AA | 02     | TBB2AA   | 00   | 1      | TT3              | B2    |                     | 09B                |                    | BYTE 2               |
| 08699   |        | XA150     | 20  |      | XA139  | 04        |     |      | 16B         | 9    |       |               | TBB1AA | 02     | TBB1AA   | 00   | 1      | TT3              | B1    |                     | 11A                |                    | BYTE1                |
| 08803   |        | XA150     | 21  |      | XA148  | 69        |     |      | 16B         | 9    |       |               | TBC48P | 04     | TBB3AA   | 01   | 1      | TT3              | B3    |                     | 10B                |                    |                      |
| 08780   |        | XA150     | 22  |      | XA150  | 34        |     |      | 16B         | 9    |       |               | TBC2C0 | 02     | TBB1AA   | 01   | 1      | TT3              | B1    |                     | 12A                |                    |                      |
| 08779   |        | XA150     | 23  |      | XA150  | 22        |     |      | 16B         | 9    |       |               | TBC2C0 | 01     | TBB3AA   | 01   | 2      | TT3              | B3    |                     | 11B                |                    |                      |
| 08802   |        | XA150     | 24  |      | XA150  | 21        |     |      | 16B         | 9    |       |               | TBC48P | 03     | TBB1AA   | 01   | 2      | TT3              | B1    |                     | 13A                |                    |                      |
| 08795   |        | XA150     | 25  |      | XA150  | 33        |     |      | 16B         | 9    |       |               | TBC38Q | 05     | TBB3AA   | 01   | 3      | TT3              | B3    |                     | 12B                |                    |                      |
| 08788   |        | XA150     | 26  |      | XA150  | 29        |     |      | 16B         | 9    |       |               | TBC38P | 04     | TBB1AA   | 01   | 3      | TT3              | B1    |                     | 14A                |                    |                      |
| 08715   |        | XA150     | 27  |      | XA139  | 09        |     |      | 16B         | 9    |       |               | TBB3AA | 01     | TBB3AA   | 00   | 1      | TT3              | B3    |                     | 13B                |                    | BYTE 3               |
| 00371   |        | XA150     | 28  |      |        |           |     |      |             |      |       |               | +5V    | 01     |          |      |        | TT3              |       |                     |                    |                    |                      |
| 08789   |        | XA150     | 29  |      | XA145  | 06        |     |      | 16B         | 9    |       |               | TBC38P | 05     | TBB5AA   | 01   | 1      | TT3              | C2    |                     | 14B                |                    |                      |
| 08812   |        | XA150     | 30  |      | XA150  | 42        |     |      | 16B         | 9    |       |               | TBC4C0 | 01     | TBB5AA   | 01   | 2      | TT3              | C2    |                     | 15A                |                    |                      |
| 08724   |        | XA150     | 31  |      | XA139  | 22        |     |      | 16B         | 9    |       |               | TBB5AA | 01     | TBB5AA   | 00   | 1      | TT3              | C2    |                     | 15B                |                    | BYTE 5               |
| 01960   |        | XA150     | 32  |      |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TT3              |       |                     | 27A                |                    |                      |
| 08796   |        | XA150     | 33  |      | XA150  | 54        |     |      | 16B         | 9    |       |               | TBC38Q | 06     | TBB6AA   | 01   | 1      | TT3              | C3    |                     | 16B                |                    |                      |
| 08781   |        | XA150     | 34  |      | XA139  | 63        |     |      | 16B         | 9    |       |               | TBC2C0 | 03     | TBB5AA   | 01   | 3      | TT3              | C2    |                     | 16A                |                    |                      |
| 08766   |        | XA150     | 35  |      | XA150  | 38        |     |      | 16B         | 9    |       |               | TBC28P | 02     | TBB6AA   | 01   | 2      | TT3              | C3    |                     | 17B                |                    |                      |
| 08720   |        | XA150     | 36  |      | XA139  | 15        |     |      | 16B         | 9    |       |               | TBB4AA | 01     | TBB4AA   | 00   | 1      | TT3              | C1    |                     | 17A                |                    | BYTE 4               |
| 08814   |        | XA150     | 37  |      | XA139  | 66        |     |      | 16B         | 9    |       |               | TBC4C0 | 03     | TBB6AA   | 01   | 3      | TT3              | C3    |                     | 18B                |                    |                      |
| 08767   |        | XA150     | 38  |      | XA151  | 76        |     |      | 16B         | 9    |       |               | TBC28P | 03     | TBB4AA   | 01   | 1      | TT3              | C1    |                     | 18A                |                    |                      |
| 08728   |        | XA150     | 39  |      | XA139  | 23        |     |      | 16B         | 9    |       |               | TBB6AA | 01     | TBB6AA   | 00   | 1      | TT3              | C3    |                     | 19B                |                    | BYTE 6               |
| 08787   |        | XA150     | 40  |      | XA150  | 26        |     |      | 16B         | 9    |       |               | TBC38P | 03     | TBB4AA   | 01   | 2      | TT3              | C1    |                     | 19A                |                    |                      |
| 14881   |        | XA150     | 41  |      | XA151  | 53        |     |      | 16B         | 9    |       |               | TPS10A | 01     | TBCRSA   | 01   | 1      | TT3              | D2    |                     | 22B                |                    |                      |
| 08813   |        | XA150     | 42  |      | XA150  | 37        |     |      | 16B         | 9    |       |               | TBC4C0 | 02     | TBB4AA   | 01   | 3      | TT3              | C1    |                     | 20A                |                    |                      |
| 08742   |        | XA150     | 43  |      | XA151  | 64        |     |      | 16B         | 9    |       |               | TBCRSA | 01     | TBCRSA   | 00   | 1      | TT3              | D2    |                     | 23B                |                    | BYTE COUNTER RES     |
| 01961   |        | XA150     | 44  |      |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TT3              |       |                     | 40A                |                    |                      |
| CONNECTOR (XA150) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |               |        |        |          |      |        |                  |       |                     |                    |                    |                      |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA150  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 87

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | INFO | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16099         |        | XA150     | 45                              |      |        |           |     |      |             |      |       |       | TS13BQ | 06     | TBD15A   | 01   | 1      | TT3              | D3    |                     | 24B                |                    |        |
| 13495         |        | XA150     | 46                              |      | XA139  | 80        |     |      |             | 16B  | 9     |       | TIZCKO | 01     | TBCRSA   | 01   | 2      | TT3              | D2    |                     | 21A                |                    |        |
| 08755         |        | XA150     | 47                              |      | XA151  | 55        |     |      |             | 16B  | 9     |       | TBC1BQ | 03     | TBD15A   | 01   | 2      | TT3              | D3    |                     | 25B                |                    |        |
| 09163         |        | XA150     | 48                              |      |        |           |     |      |             |      |       |       | TBST1A | 05     | TBCRSA   | 01   | 3      | TT3              | D2    |                     | 22A                |                    |        |
| 09185         |        | XA150     | 49                              |      | XA150  | 75        |     |      |             | 16B  | 9     |       | TBST10 | 07     | TBD15A   | 01   | 3      | TT3              | D3    |                     | 26B                |                    |        |
| 08732         |        | XA150     | 50                              |      | XA139  | 20        |     |      |             | 16B  | 9     |       | TBB7AA | 01     | TBB7AA   | 00   | 1      | TT3              | D1    |                     | 23A                | BYTE 7 COUNT-A B   |        |
| 08835         |        | XA150     | 51                              |      |        |           |     |      |             |      |       |       | TBD15A | 05     | TBD15A   | 00   | 1      | TT3              | D3    |                     | 27B                | BC 1 RESET BOOTS   |        |
| 08776         |        | XA150     | 52                              |      | XA149  | 78        |     |      |             | 16B  | 9     |       | TBC2BQ | 05     | TBB7AA   | 01   | 1      | TT3              | D1    |                     | 24A                |                    |        |
| 14500         |        | XA150     | 53                              |      |        |           |     |      |             |      |       |       | TM02C0 | 04     | TM6SCA   | 01   | 1      | TT3              | E2    |                     | 28B                |                    |        |
| 08797         |        | XA150     | 54                              |      | XA151  | 74        |     |      |             | 16B  | 9     |       | TBC3BQ | 07     | TBB7AA   | 01   | 2      | TT3              | O1    |                     | 25A                |                    |        |
| 14620         |        | XA150     | 55                              |      | XA145  | 24        |     |      |             | 16B  | 9     |       | TM6SCA | 01     | TM6SCA   | 00   | 1      | TT3              | E2    |                     | 29B                | SELECT M6 FROM M   |        |
| 08809         |        | XA150     | 56                              |      | XA148  | 74        |     |      |             | 16B  | 9     |       | TBC4BQ | 03     | TBB7AA   | 01   | 3      | TT3              | D1    |                     | 26A                |                    |        |
| 09169         |        | XA150     | 57                              |      | XA343  | 18        |     |      |             | 16B  | 9     |       | TBST1P | 06     | TNIABA   | 01   | 1      | TT3              | E3    |                     | 30B                |                    |        |
| 01962         |        | XA150     | 58                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TT3              |       |                     | 40B                |                    |        |
| 08418         |        | XA150     | 59                              |      |        |           |     |      |             |      |       |       | TAVEBP | 06     | TNIABA   | 01   | 2      | TT3              | E3    |                     | 31B                |                    |        |
| 14584         |        | XA150     | 60                              |      | XA112  | 62        |     |      |             | 16B  | 9     |       | TM2M60 | 02     | TM6SCA   | 01   | 2      | TT3              | E2    |                     | 28A                |                    |        |
| 13329         |        | XA150     | 61                              |      | XA238  | 76        |     |      |             | 16B  | 9     |       | TINDBP | 02     | TNIABA   | 01   | 3      | TT3              | E3    |                     | 32B                |                    |        |
| 14333         |        | XA150     | 62                              |      | XA143  | 49        |     |      |             | 16B  | 9     |       | TMS3BQ | 02     | TM6SCA   | 01   | 3      | TT3              | E2    |                     | 29A                |                    |        |
| 14623         |        | XA150     | 63                              |      |        |           |     |      |             |      |       |       | TNIABA | 02     | TNIABA   | 00   | 1      | TT3              | E3    |                     | 33B                | NOT IND. NOT ACC   |        |
| 14342         |        | XA150     | 64                              |      | XA142  | 56        |     |      |             | 16B  | 9     |       | TMS31A | 01     | TMS31A   | 00   | 1      | TT3              | E1    |                     | 30A                | CONTROLLED CLOCK   |        |
| 16210         |        | XA150     | 65                              |      | XA347  | 59        |     |      |             | 16B  | 9     |       | TS17BP | 01     | TM0120   | 01   | 1      | TT3              | F2    |                     | 34B                |                    |        |
| 13748         |        | XA150     | 66                              |      | XA113  | 74        |     |      |             | 16B  | 9     |       | TKAMBQ | 02     | TMS31A   | 01   | 1      | TT3              | E1    |                     | 31A                |                    |        |
| 01963         |        | XA150     | 67                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 14491         |        | XA150     | 68                              |      | XA148  | 43        |     |      |             | 16B  | 9     |       | TM02BQ | 04     | TMS31A   | 01   | 2      | TT3              | E1    |                     | 32A                |                    |        |
| 16117         |        | XA150     | 69                              |      | XA149  | 36        |     |      |             | 16B  | 9     |       | TS13WA | 03     | TMTI10   | 01   | 1      | TT3              | F3    |                     | 35A                |                    |        |
| 14327         |        | XA150     | 70                              |      | XA351  | 06        |     |      |             | 16B  | 9     |       | TMS3BP | 03     | TMS31A   | 01   | 3      | TT3              | E1    |                     | 33A                |                    |        |
| 16518         |        | XA150     | 71                              |      | XA349  | 33        |     |      |             | 16B  | 9     |       | TS7BSA | 01     | TM0120   | 01   | 2      | TT3              | F2    |                     | 36A                |                    |        |
| 16233         |        | XA150     | 72                              |      | XA250  | 48        |     |      |             | 16B  | 9     |       | TS18BP | 01     | TM0120   | 01   | 3      | TT3              | F2    |                     | 34A                |                    |        |
| 08822         |        | XA150     | 73                              |      |        |           |     |      |             |      |       |       | TBDIGA | 05     | TBDIGA   | 00   | 1      | TT3              | F1    |                     | 36B                | FAN OUT CONTROL    |        |
| 14482         |        | XA150     | 74                              |      | XA149  | 24        |     |      |             | 16B  | 9     |       | TM0120 | 01     | TM0120   | 00   | 1      | TT3              | F2    |                     | 35B                | OR'D SELECT M1 C   |        |
| 09186         |        | XA150     | 75                              |      | XA351  | 62        |     |      |             | 16B  | 9     |       | TBST10 | 08     | TBDIGA   | 01   | 1      | TT3              | F1    |                     | 37B                |                    |        |
| 09315         |        | XA150     | 76                              |      | XA149  | 34        |     |      |             | 16B  | 9     |       | TBL35A | 01     | TMTI10   | 01   | 2      | TT3              | F3    |                     | 37A                |                    |        |
| 08706         |        | XA150     | 77                              |      | XA351  | 60        |     |      |             | 16B  | 9     |       | TBB120 | 02     | TBDIGA   | 01   | 2      | TT3              | F1    |                     | 38B                |                    |        |
| 08389         |        | XA150     | 78                              |      |        |           |     |      |             |      |       |       | TADABP | 06     | TMTI10   | 01   | 3      | TT3              | F3    |                     | 38A                |                    |        |
| 16142         |        | XA150     | 79                              |      | XA137  | 70        |     |      |             | 16B  | 9     |       | TS14C0 | 02     | TBDIGA   | 01   | 3      | TT3              | F1    |                     | 39B                |                    |        |
| 14379         |        | XA150     | 80                              |      | XA245  | 05        |     |      |             | 16B  | 9     |       | TMTI10 | 01     | TMTI10   | 00   | 1      | TT3              | F3    |                     | 39A                | S13.WORD IN + BR   |        |
| 13859         |        | XA151     | 01                              |      | XA151  | 10        |     |      |             | 16B  | 9     |       | TKRC2A | 01     | TMTC2N   | 01   | 1      | TDD              | BN    |                     | 02B                |                    |        |
| 01964         |        | XA151     | 02                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 01B                |                    |        |
| 05238         |        | XA151     | 03                              |      | XA151  | 26        |     |      |             | 16B  | 9     |       | SPI014 | 01     | TMTC2Q   | 01   | 1      | TDD              | BQ    |                     | 02A                |                    |        |
| 14374         |        | XA151     | 04                              |      | XA148  | 04        |     |      |             | 16B  | 9     |       | TMTIMQ | 04     | TMTC2P   | 01   | 1      | TDD              | BP    |                     | 04A                |                    |        |
| 14360         |        | XA151     | 05                              |      | XA148  | 07        |     |      |             | 16B  | 9     |       | TMTC3Q | 01     | TMTC2I   | 01   | 1      | TDD              | BI    |                     | 03B                |                    |        |
| 14373         |        | XA151     | 06                              |      | XA151  | 04        |     |      |             | 16B  | 9     |       | TMTIMQ | 03     | TMTCOP   | 01   | 1      | TDD              | AP    |                     | 05A                |                    |        |
| 14359         |        | XA151     | 07                              |      |        |           |     |      |             |      |       |       | TMTC2Q | 02     | TMTC2Q   | 00   | 1      | TDD              | BQ    |                     | 03A                |                    |        |
| 14354         |        | XA151     | 08                              |      | XA148  | 13        |     |      |             | 16B  | 9     |       | TMTC1Q | 01     | TMTC0I   | 01   | 1      | TDD              | AI    |                     | 06A                |                    |        |
| 14357         |        | XA151     | 09                              |      |        |           |     |      |             |      |       |       | TMTC2P | 02     | TMTC2P   | 00   | 1      | TDD              | BP    |                     | 04B                | MASTER RESET MEM   |        |
| 13860         |        | XA151     | 10                              |      | XA148  | 10        |     |      |             | 16B  | 9     |       | TKRC2A | 02     | TMTC0N   | 01   | 1      | TDD              | AN    |                     | 07A                |                    |        |
| 14348         |        | XA151     | 11                              |      | XA148  | 05        |     |      |             | 16B  | 9     |       | TMTCOP | 01     | TMTCOP   | 00   | 1      | TDD              | AP    |                     | 05B                | COUNTER BIT 0 MA   |        |
| 00372         |        | XA151     | 12                              |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | TDD              |       |                     |                    |                    |        |
| CONNECTOR     |        | XA151     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA151  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 88

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACTOR | CKT ON CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |                  |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|--------|---------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH FE | MULTI GROUP | CODE | COLOR |        |         |          |        |        |                  |       |                     |                    |                    |                  | IDENT            |
| 14351   |        | XA151     | 13  |        |           |     |       |             |      |       |        | TMTCOQ  | 02       | TMTCOQ | 00     | 1                | TDD   | AQ                  |                    | 06B                | PRESET COUNTER B |                  |
| 13826   |        | XA151     | 14  |        |           |     |       |             |      |       |        | TKBACB  | 24       | TM01BN | 01     | 1                | TDD   | DN                  |                    | 09A                |                  |                  |
| 05210   |        | XA151     | 15  |        | XA147     | 05  |       | 16B         | 9    |       |        | SPI013  | 10       | TMTCOQ | 01     | 1                | TDD   | AQ                  |                    | 07B                |                  |                  |
| 01965   |        | XA151     | 16  |        |           |     |       |             |      |       |        | GND     | 01       |        |        |                  | TDD   |                     |                    | 20B                |                  |                  |
| 04962   |        | XA151     | 17  |        | XA147     | 62  |       | 16B         | 9    |       |        | SPI003  | 31       | TM01BQ | 01     | 1                | TDD   | DQ                  |                    | 08B                |                  |                  |
| 14485   |        | XA151     | 18  |        |           |     |       |             |      |       |        | TM0130  | 02       | TM01BI | 01     | 1                | TDD   | DI                  |                    | 10A                |                  |                  |
| 14465   |        | XA151     | 19  |        | XA141     | 40  |       | 16B         | 9    |       |        | TM01BQ  | 07       | TM01BQ | 00     | 1                | TDD   | DQ                  |                    | 09B                |                  | M01 PRESET       |
| 14197   |        | XA151     | 20  |        | XA148     | 20  |       | 16B         | 9    |       |        | TMRUAA4 | 12       | TM01BP | 01     | 1                | TDD   | DP                  |                    | 11A                |                  |                  |
| 14454   |        | XA151     | 21  |        | XA148     | 52  |       | 16B         | 9    |       |        | TM01BP  | 01       | TM01BP | 00     | 1                | TDD   | DP                  |                    | 10B                |                  | M01 PRERESET, PD |
| 14431   |        | XA151     | 22  |        | XA148     | 47  |       | 16B         | 9    |       |        | TMO0BP  | 01       | TBMACP | 01     | 1                | TDD   | CP                  |                    | 12A                |                  |                  |
| 09076   |        | XA151     | 23  |        |           |     |       |             |      |       | M      | TBMACP  | 02       | TBMACP | 00     | 1                | TDD   | CP                  |                    | 11B                |                  |                  |
| 05209   |        | XA151     | 24  |        | XA151     | 15  |       | 16B         | 9    |       |        | SPI013  | 09       | TBMACI | 01     | 1                | TDD   | CI                  |                    | 13A                |                  | 006              |
| 09079   |        | XA151     | 25  |        |           |     |       |             |      |       |        | TBMACQ  | 03       | TBMACQ | 00     | 1                | TDD   | CQ                  |                    | 12B                |                  | BASE MEMORY ACCE |
| 05239   |        | XA151     | 26  |        | XA151     | 42  |       | 16B         | 9    |       |        | SPI014  | 02       | TBMACN | 01     | 1                | TDD   | CN                  |                    | 14A                |                  |                  |
| 09071   |        | XA151     | 27  |        | XA141     | 46  |       | 16B         | 9    |       |        | TBMAAA  | 01       | TBMACQ | 01     | 1                | TDD   | CQ                  |                    | 13B                |                  |                  |
| 00373   |        | XA151     | 28  |        |           |     |       |             |      |       |        | +5V     | 01       |        |        |                  | TDD   |                     |                    |                    |                  |                  |
| 14107   |        | XA151     | 29  |        |           |     |       |             |      |       |        | TMD5AA  | 02       | TM03BQ | 01     | 1                | TDD   | FQ                  |                    | 14B                |                  |                  |
| 13825   |        | XA151     | 30  |        | XA151     | 14  |       | 16B         | 9    |       |        | TKBACB  | 23       | TM03BN | 01     | 1                | TDD   | FN                  |                    | 15A                |                  |                  |
| 14510   |        | XA151     | 31  |        | XA149     | 35  |       | 16B         | 9    |       |        | TM03BQ  | 02       | TM03BQ | 00     | 1                | TDD   | FQ                  |                    | 15B                |                  | PRESET M03, DATA |
| 01966   |        | XA151     | 32  |        |           |     |       |             |      |       |        | GND     | 01       |        |        |                  | TDD   |                     |                    | 21B                |                  |                  |
| 14508   |        | XA151     | 33  |        |           |     |       |             |      |       |        | TM03BP  | 04       | TM03BP | 00     | 1                | TDD   | FP                  |                    | 16B                |                  | CLR M03, MASTER  |
| 14535   |        | XA151     | 34  |        | XA139     | 68  |       | 16B         | 9    |       |        | TM0310  | 01       | TM03BI | 01     | 1                | TDD   | FI                  |                    | 16A                |                  |                  |
| 09098   |        | XA151     | 35  |        |           |     |       |             |      |       |        | TBRRFQ  | 03       | TBRRFQ | 00     | 1                | TDD   | EP                  |                    | 17B                |                  | BURST REQ F/F RE |
| 14196   |        | XA151     | 36  |        | XA151     | 20  |       | 16B         | 9    |       |        | TMRUAA4 | 11       | TM03BP | 01     | 1                | TDD   | FP                  |                    | 17A                |                  |                  |
| 09100   |        | XA151     | 37  |        |           |     |       |             |      |       |        | TBRRFQ  | 02       | TBRRFQ | 00     | 1                | TDD   | EQ                  |                    | 18B                |                  | BURST REQUEST F/ |
| 09109   |        | XA151     | 38  |        |           |     |       |             |      |       |        | TBRRFQ  | 02       | TBRRFQ | 01     | 1                | TDD   | EP                  |                    | 18A                |                  |                  |
| 09106   |        | XA151     | 39  |        | XA146     | 51  |       | 16B         | 9    |       |        | TBRRIA  | 01       | TBRRFQ | 01     | 1                | TDD   | EQ                  |                    | 19B                |                  |                  |
| 05208   |        | XA151     | 40  |        | XA151     | 24  |       | 16B         | 9    |       |        | SPI013  | 08       | TBRRFI | 01     | 1                | TDD   | EI                  |                    | 19A                |                  |                  |
| 05241   |        | XA151     | 41  |        | XA120     | 55  |       | 16B         | 9    |       |        | SPI014  | 04       | TM05BQ | 01     | 1                | TDD   | HQ                  |                    | 22B                |                  |                  |
| 05240   |        | XA151     | 42  |        | XA151     | 41  |       | 16B         | 9    |       |        | SPI014  | 03       | TBRRFN | 01     | 1                | TDD   | EN                  |                    | 20A                |                  |                  |
| 14561   |        | XA151     | 43  |        |           |     |       |             |      |       |        | TM05BQ  | 02       | TM05BQ | 00     | 1                | TDD   | HQ                  |                    | 23B                |                  |                  |
| 01967   |        | XA151     | 44  |        |           |     |       |             |      |       |        | GND     | 01       |        |        |                  | TDD   |                     |                    | 27A                |                  |                  |
| 14557   |        | XA151     | 45  |        | XA349     | 40  |       | 16B         | 9    |       |        | TM05BP  | 05       | TM05BP | 00     | 1                | TDD   | HP                  |                    | 24B                |                  | MASTER RESET CLR |
| 13824   |        | XA151     | 46  |        | XA151     | 30  |       | 16B         | 9    |       |        | TKBACB  | 22       | TM05BN | 01     | 1                | TDD   | HN                  |                    | 21A                |                  |                  |
| 14539   |        | XA151     | 47  |        | XA338     | 70  |       | 16B         | 9    |       |        | TM04BP  | 01       | TM04BP | 00     | 1                | TDD   | GP                  |                    | 25B                |                  | MASTER RESET M4  |
| 14566   |        | XA151     | 48  |        |           |     |       |             |      |       |        | TM0510  | 02       | TM05BI | 01     | 1                | TDD   | HI                  |                    | 22A                |                  |                  |
| 14546   |        | XA151     | 49  |        | XA149     | 50  |       | 16B         | 9    |       |        | TM04BQ  | 02       | TM04BQ | 00     | 1                | TDD   | GQ                  |                    | 26B                |                  |                  |
| 14195   |        | XA151     | 50  |        | XA151     | 36  |       | 16B         | 9    |       |        | TMRUAA4 | 10       | TM05BP | 01     | 1                | TDD   | HP                  |                    | 23A                |                  |                  |
| 05207   |        | XA151     | 51  |        | XA151     | 40  |       | 16B         | 9    |       |        | SPI013  | 07       | TM04BQ | 01     | 1                | TDD   | GQ                  |                    | 27B                |                  |                  |
| 14430   |        | XA151     | 52  |        | XA151     | 50  |       | 16B         | 9    |       |        | TMRUAA4 | 08       | TM04BP | 01     | 1                | TDD   | GP                  |                    | 24A                |                  | 005              |
| 14882   |        | XA151     | 53  |        | XA141     | 60  |       | 16B         | 9    |       |        | TPS10A  | 02       | TBC1BQ | 01     | 1                | TDD   | KQ                  |                    | 28B                |                  |                  |
| 14552   |        | XA151     | 54  |        |           |     |       |             |      |       |        | TM0410  | 02       | TM04BI | 01     | 1                | TDD   | GI                  |                    | 25A                |                  |                  |
| 08756   |        | XA151     | 55  |        | XA149     | 77  |       | 16B         | 9    |       |        | TBC1BQ  | 04       | TBC1BQ | 00     | 1                | TDD   | KQ                  |                    | 29B                |                  | BYTE COUNTER FF  |
| 13823   |        | XA151     | 56  |        | XA151     | 46  |       | 16B         | 9    |       |        | TKBACB  | 21       | TM04BN | 01     | 1                | TDD   | GN                  |                    | 26A                |                  |                  |
| 08752   |        | XA151     | 57  |        |           |     |       |             |      |       |        | TBC1BP  | 06       | TBC1BP | 00     | 1                | TDD   | KP                  |                    | 30B                |                  | BYTE COUNTER FF  |
| 01968   |        | XA151     | 58  |        |           |     |       |             |      |       |        | GND     | 01       |        |        |                  | TDD   |                     |                    | 40A                |                  |                  |
| 13429   |        | XA151     | 59  |        | XA143     | 77  |       | 16B         | 9    |       |        | TITCOP  | 01       | TITCOP | 00     | 1                | TDD   | JP                  |                    | 31B                |                  | PRERESET I/O TIM |
| 08880   |        | XA151     | 60  |        |           |     |       |             |      |       |        | TBK10A  | 02       | TBC1BN | 01     | 1                | TDD   | KN                  |                    | 28A                |                  |                  |
| 13432   |        | XA151     | 61  |        |           |     |       |             |      |       |        | TITCOP  | 02       | TITCOP | 00     | 1                | TDD   | JQ                  |                    | 32B                |                  | PRESET           |
| 08824   |        | XA151     | 62  |        |           |     |       |             |      |       |        | TBD100  | 02       | TBC1BI | 01     | 1                | TDD   | KI                  |                    | 29A                |                  |                  |
| CONNECTOR (XA151) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |        |         |          |        |        |                  |       |                     |                    |                    |                  |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA151  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 89

| RECORD NUMBER                                   | FROM   |           |     | TO    |        |           | WIRE |       |             | SFC INSET | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |                  |       |
|---|--------|-----------|-----|-------|--------|-----------|------|-------|-------------|-----------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|------------------|-------|
|   | PREFIX | CONNECTOR | PIN | SH PG | PREFIX | CONNECTOR | PIN  | SH PG | MULTI GROUP |           |        |        |          |             |                  |       |                     |                    |                    |        | CODE             | COLOR |
| 05206   |        | XA151     | 63  |       |        | XA151     | 51   |       |             | 16B       | 9      |        | SPI013   | 06          | TITC0Q           | 01    | 1                   | TDD                | JQ                 | 33B    |                  |       |
| 08743   |        | XA151     | 64  |       |        | XA151     | 75   |       |             | 16B       | 9      |        | TBCRSA   | 02          | TBC18P           | 01    | 1                   | TDD                | KP                 | 30A    |                  |       |
| 14894   |        | XA151     | 65  |       |        | XA148     | 65   |       |             | 16B       | 9      |        | TPS20A   | 02          | TBC38Q           | 01    | 1                   | TDD                | MQ                 | 34B    |                  |       |
| 13440   |        | XA151     | 66  |       |        | XA148     | 75   |       |             | 16B       | 9      |        | TIIMQ    | 01          | TITCOP           | 01    | 1                   | TDD                | JP                 | 31A    |                  |       |
| 01969   |        | XA151     | 67  |       |        |           |      |       |             |           |        |        | GND      | 01          |                  |       |                     | TDD                |                    | 40B    |                  |       |
| 13433   |        | XA151     | 68  |       |        | XA148     | 78   |       |             | 16B       | 9      |        | TITC1Q   | 01          | TITCOI           | 01    | 1                   | TDD                | JI                 | 32A    |                  |       |
| 08786   |        | XA151     | 69  |       |        | XA150     | 40   |       |             | 16B       | 9      |        | TBC38P   | 02          | TBC38P           | 00    | 1                   | TDD                | MP                 | 35A    | BYTE COUNTER 3 F |       |
| 04793   |        | XA151     | 70  |       |        |           |      |       |             |           |        |        | RTCQ9A   | 06          | TITCON           | 01    | 1                   | TDD                | JN                 | 33A    |                  |       |
| 08855   |        | XA151     | 71  |       |        | XA137     | 07   |       |             | 16B       | 9      |        | TB0300   | 01          | TBC3BI           | 01    | 1                   | TDD                | MI                 | 36A    |                  |       |
| 08892   |        | XA151     | 72  |       |        | XA148     | 72   |       |             | 16B       | 9      |        | TBK20A   | 02          | TBC38N           | 01    | 1                   | TDD                | MN                 | 34A    |                  |       |
| 08745   |        | XA151     | 73  |       |        | XA148     | 73   |       |             | 16B       | 9      |        | TBCRSA   | 04          | TBC3BP           | 01    | 1                   | TDD                | MP                 | 36B    |                  |       |
| 08798   |        | XA151     | 74  |       |        |           |      |       |             |           |        |        | TBC38Q   | 08          | TBC38Q           | 00    | 1                   | TDD                | MQ                 | 35B    | BYTE COUNTER 3 F |       |
| 08744   |        | XA151     | 75  |       |        | XA151     | 73   |       |             | 16B       | 9      |        | TBCRSA   | 03          | TBC2BP           | 01    | 1                   | TDD                | LP                 | 37B    |                  |       |
| 08768   |        | XA151     | 76  |       |        | XA149     | 73   |       |             | 16B       | 9      |        | TBC2BP   | 04          | TBC2BP           | 00    | 1                   | TDD                | LP                 | 37A    | BYTE COUNTER-2 F |       |
| 08837   |        | XA151     | 77  |       |        |           |      |       |             |           |        |        | TB0200   | 02          | TBC2BI           | 01    | 1                   | TDD                | LI                 | 38B    |                  |       |
| 08776   |        | XA151     | 78  |       |        |           |      |       |             |           |        |        | TBC28Q   | 07          | TBC28Q           | 00    | 1                   | TDD                | LQ                 | 38A    | BYTE COUNTER -2  |       |
| 08891   |        | XA151     | 79  |       |        | XA151     | 72   |       |             | 16B       | 9      |        | TBK20A   | 01          | TBC28N           | 01    | 1                   | TDD                | LN                 | 39B    |                  |       |
| 14893   |        | XA151     | 80  |       |        | XA151     | 65   |       |             | 16B       | 9      |        | TPS20A   | 01          | TBC28Q           | 01    | 1                   | TDD                | LQ                 | 39A    |                  |       |
| 04355   |        | XA201     | 01  |       |        | XA117     | 80   |       |             | 16B       | 9      |        | KSYSMB   | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 20308   |        | XA201     | 02  |       |        |           |      |       |             |           |        |        | KSYSMB   | 02          |                  |       |                     | EXT                |                    |        |                  |       |
| 21143   |        | XA201     | 02  |       |        |           |      |       |             |           |        |        | GND      | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 03818   |        | XA201     | 03  |       |        | XA117     | 65   |       |             | 16B       | 9      |        | KCMPMDX4 | 02          |                  |       |                     | EXT                |                    |        |                  | D04   |
| 20249   |        | XA201     | 04  |       |        | XA503     | 52   |       |             | 16B       | 9      |        | KCMPMDG4 | 02          |                  |       |                     | EXT                |                    |        |                  | D04   |
| 21144   |        | XA201     | 04  |       |        |           |      |       |             |           |        |        | GND      | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 06638   |        | XA201     | 05  |       |        | XA107     | 07   |       |             | 2A        | 1ED 2  |        | +5VDCF   | 00C         |                  |       |                     | EXT                |                    |        |                  | C10   |
| 21391   |        | XA201     | 05  |       |        |           |      |       |             |           |        |        | +5VDCF   | 923         |                  |       |                     | EXT                |                    |        |                  | C10   |
| 20238   |        | XA201     | 06  | 1     |        | XA201     | 10   | 1     |             | 16B       | 9      |        | GND001   | 01          |                  |       |                     | EXT                |                    |        |                  | C10   |
| 21145   |        | XA201     | 06  |       |        |           |      |       |             |           |        |        | GND      | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 20237   |        | XA201     | 07  |       |        |           |      |       |             |           |        |        | EPSFLT   | 02          |                  |       |                     | EXT                |                    |        |                  |       |
| 20236   |        | XA201     | 08  |       |        |           |      |       |             |           |        |        | EPSFLG   | 02          |                  |       |                     | EXT                |                    |        |                  |       |
| 21146   |        | XA201     | 08  |       |        |           |      |       |             |           |        |        | GND      | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 00249   |        | XA201     | 09  |       |        | XA318     | 80   |       |             | 16B       | 9      |        | +5AXIC   | 03          |                  |       |                     | EXT                |                    |        |                  | B05   |
| 00229   |        | XA201     | 10  |       |        |           |      |       |             |           |        |        | +5AXIR   | 03          |                  |       |                     | EXT                |                    |        |                  |       |
| 20899   |        | XA201     | 10  |       |        |           |      |       |             |           |        |        | GND001   | 02          |                  |       |                     | EXT                |                    |        |                  |       |
| 03514   |        | XA201     | 11  |       |        | XA119     | 55   |       |             | AA        | 1EB 9  |        | IOPWRB   | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 20241   |        | XA201     | 12  |       |        | XA119     | 53   |       |             | AA        | 1EB 0  |        | IOPWRG   | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 21147   |        | XA201     | 12  |       |        |           |      |       |             |           |        |        | GND      | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 06639   |        | XA201     | 13  |       |        | XA201     | 05   |       |             | 16B       | 9      |        | +5VDCF   | 922         |                  |       |                     | EXT                |                    |        |                  | C10   |
| 01970   |        | XA201     | 14  |       |        |           |      |       |             |           |        |        | GND      | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 20289   |        | XA201     | 15  |       |        |           |      |       |             |           |        |        | KIOPDN   | 02          |                  |       |                     | EXT                |                    |        |                  |       |
| 20288   |        | XA201     | 16  |       |        |           |      |       |             |           |        |        | KIOPDG   | 02          |                  |       |                     | EXT                |                    |        |                  |       |
| 21148   |        | XA201     | 16  |       |        |           |      |       |             |           |        |        | GND      | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 06640   |        | XA201     | 17  |       |        | XA201     | 13   |       |             | 16B       | 9      |        | +5VDCF   | 921         |                  |       |                     | EXT                |                    |        |                  | C10   |
| 01971   |        | XA201     | 18  |       |        |           |      |       |             |           |        |        | GND      | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 21393   |        | XA201     | 18  |       |        |           |      |       |             |           |        |        | +5VDCFR  | 02          |                  |       |                     | EXT                |                    |        |                  | C10   |
| 06641   |        | XA201     | 19  |       |        | XA107     | 36   |       |             | 2B        | 1ED 2  |        | +5IOET   | 00B         |                  |       |                     | EXT                |                    |        |                  | C10   |
| 01972   |        | XA201     | 20  |       |        |           |      |       |             |           |        |        | GND      | 01          |                  |       |                     | EXT                |                    |        |                  |       |
| 21389   |        | XA201     | 20  |       |        | XA107     | 32   |       |             | 2B        | 1ED 0  |        | +5IOETR  | 01          |                  |       |                     | EXT                |                    |        |                  | C10   |
| CONNECTOR XA201 CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |      |       |             |           |        |        |          |             |                  |       |                     |                    |                    |        |                  |       |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA201  
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| RECORD NUMBER | FROM   |           |     |        | TO     |           |     |        | WIRE        |      |       |     | SIGNAL  | SPJ NO | EQUATION | TERM | FACTOR | MOUNTING TYPE | LOAD OR POWER PLANE | TEST POINTS LOCATION | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|--------|--------|-----------|-----|--------|-------------|------|-------|-----|---------|--------|----------|------|--------|---------------|---------------------|----------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | SH. FC | PREFIX | CONNECTOR | PIN | SH. FC | MULTI GROUP | CODE | COLOR | LOC |         |        |          |      |        |               |                     |                      |                    |        |
| 06642         |        | XA201     | 21  |        | XA201  | 19        |     |        | 16B         | 9    |       |     | +5I0ET  | 00A    |          |      |        |               |                     |                      |                    | C10    |
| 01973         |        | XA201     | 22  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 06643         |        | XA201     | 23  |        | XA201  | 21        |     |        | 16B         | 9    |       |     | +5I0ET  | 00     |          |      |        |               |                     |                      |                    | C10    |
| 01974         |        | XA201     | 24  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17351         |        | XA201     | 25  |        |        |           |     |        |             |      |       |     | WKBSCA  | 02     |          |      |        |               |                     |                      |                    |        |
| 01975         |        | XA201     | 26  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17352         |        | XA201     | 27  |        | XA331  | 25        |     |        | 16B         | 9    |       |     | WKB50A  | 01     |          |      |        |               |                     |                      |                    |        |
| 01976         |        | XA201     | 28  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 03824         |        | XA201     | 29  |        | XA118  | 43        |     |        | 16B         | 9    |       |     | KDVBLLB | 01     |          |      |        |               |                     |                      |                    |        |
| 20251         |        | XA201     | 30  |        | XA118  | 44        |     |        | 16B         | 9    |       |     | KDVBLLG | 01     |          |      |        |               |                     |                      |                    |        |
| 21149         |        | XA201     | 30  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17355         |        | XA201     | 31  |        |        |           |     |        |             |      |       |     | WKB10A  | 02     |          |      |        |               |                     |                      |                    |        |
| 01977         |        | XA201     | 32  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17356         |        | XA201     | 33  |        |        |           |     |        |             |      |       |     | WKB11A  | 03     |          |      |        |               |                     |                      |                    |        |
| 01978         |        | XA201     | 34  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17359         |        | XA201     | 35  |        | XA318  | 64        |     |        | 16B         | 9    |       |     | WKB12A  | 01     |          |      |        |               |                     |                      |                    |        |
| 01979         |        | XA201     | 36  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17365         |        | XA201     | 37  |        |        |           |     |        |             |      |       |     | WKB13A  | 04     |          |      |        |               |                     |                      |                    |        |
| 01980         |        | XA201     | 38  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17368         |        | XA201     | 39  |        |        |           |     |        |             |      |       |     | WKB14A  | 03     |          |      |        |               |                     |                      |                    |        |
| 01981         |        | XA201     | 40  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17372         |        | XA201     | 41  |        |        |           |     |        |             |      |       |     | WKB15A  | 04     |          |      |        |               |                     |                      |                    |        |
| 01982         |        | XA201     | 42  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17373         |        | XA201     | 43  |        | XA331  | 37        |     |        | 16B         | 9    |       |     | WKB16A  | 01     |          |      |        |               |                     |                      |                    |        |
| 01983         |        | XA201     | 44  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17381         |        | XA201     | 45  |        |        |           |     |        |             |      |       |     | WKB17A  | 05     |          |      |        |               |                     |                      |                    |        |
| 01984         |        | XA201     | 46  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 06644         |        | XA201     | 47  |        |        |           |     |        |             |      |       |     | SPP     | 01     |          |      |        |               |                     |                      |                    |        |
| 01985         |        | XA201     | 48  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 06645         |        | XA201     | 49  |        |        |           |     |        |             |      |       |     | SPP     | 01     |          |      |        |               |                     |                      |                    |        |
| 01986         |        | XA201     | 50  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17408         |        | XA201     | 51  |        |        |           |     |        |             |      |       |     | WR00LA  | 04     |          |      |        |               |                     |                      |                    |        |
| 01987         |        | XA201     | 52  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17410         |        | XA201     | 53  |        | XA414  | 34        |     |        | 16B         | 9    |       |     | WR10LA  | 02     |          |      |        |               |                     |                      |                    |        |
| 01988         |        | XA201     | 54  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17413         |        | XA201     | 55  |        | XA414  | 37        |     |        | 16B         | 9    |       |     | WR20LA  | 02     |          |      |        |               |                     |                      |                    |        |
| 01989         |        | XA201     | 56  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17416         |        | XA201     | 57  |        | XA414  | 56        |     |        | 16B         | 9    |       |     | WR30LA  | 02     |          |      |        |               |                     |                      |                    |        |
| 01990         |        | XA201     | 58  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17419         |        | XA201     | 59  |        |        |           |     |        |             |      |       |     | WR40LA  | 02     |          |      |        |               |                     |                      |                    |        |
| 01991         |        | XA201     | 60  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17420         |        | XA201     | 61  |        | XA318  | 46        |     |        | 16B         | 9    |       |     | WR50LA  | 01     |          |      |        |               |                     |                      |                    |        |
| 01992         |        | XA201     | 62  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17423         |        | XA201     | 63  |        |        |           |     |        |             |      |       |     | WR60LA  | 02     |          |      |        |               |                     |                      |                    |        |
| 01993         |        | XA201     | 64  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 17425         |        | XA201     | 65  |        |        |           |     |        |             |      |       |     | WR70LA  | 02     |          |      |        |               |                     |                      |                    |        |
| 01994         |        | XA201     | 66  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 06646         |        | XA201     | 67  |        | XA107  | 40        |     |        | 16B         | 9    |       |     | LOGC1B  | 00     |          |      |        |               |                     |                      |                    | B05    |
| 01995         |        | XA201     | 68  |        |        |           |     |        |             |      |       |     | GND     | 01     |          |      |        |               |                     |                      |                    |        |
| 06647         |        | XA201     | 69  |        | XA301  | 65        |     |        | 16B         | 9    |       |     | YMR50B  | 01     |          |      |        |               |                     |                      |                    | B05    |

CONNECTOR XA201 CONTINUED ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA201  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 91

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND DP | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01996         |        | XA201     | 70                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 06648         |        | XA201     | 71                              |        |           |     |      |             |      |       |        | LOG10B | 03       |      |        | EXT              |       |                     |                    |                    | B05    |
| 03157         |        | XA201     | 72                              |        | XA201     | 74  |      |             | 16B  | 9     |        | GND002 | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 21150         |        | XA201     | 72                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 03945         |        | XA201     | 73                              |        | XA313     | 60  |      |             | 16B  | 9     |        | KGND0B | 005      |      |        | EXT              |       |                     |                    |                    |        |
| 03158         |        | XA201     | 74                              |        | XA201     | 76  |      |             | 16B  | 9     |        | GND002 | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 06649         |        | XA201     | 75                              |        |           |     |      |             |      |       |        | SPP    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 03159         |        | XA201     | 76                              |        |           |     |      |             |      |       |        | GND002 | 03       |      |        | EXT              |       |                     |                    |                    |        |
| 00267         |        | XA201     | 77                              |        | XA201     | 79  |      |             | 16B  | 9     |        | +5LAMP | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 01997         |        | XA201     | 78                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 20849         |        | XA201     | 78                              |        |           |     |      |             |      |       |        | +5LAMP | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 00268         |        | XA201     | 79                              |        | XA202     | 79  |      |             | 16B  | 9     |        | +5LAMP | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 01998         |        | XA201     | 80                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 03830         |        | XA202     | 01                              |        | XA117     | 01  |      |             | 16B  | 9     |        | KDVC1B | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 20253         |        | XA202     | 02                              |        |           |     |      |             |      |       |        | KDVC1G | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 21151         |        | XA202     | 02                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 03836         |        | XA202     | 03                              |        | XA117     | 14  |      |             | 16B  | 9     |        | KDVC2B | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 20255         |        | XA202     | 04                              |        |           |     |      |             |      |       |        | KDVC2G | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 21152         |        | XA202     | 04                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 03842         |        | XA202     | 05                              |        | XA117     | 17  |      |             | 16B  | 9     |        | KDVC4B | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 20257         |        | XA202     | 06                              |        |           |     |      |             |      |       |        | KDVC4G | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 20900         |        | XA202     | 06                              |        | XA202     | 10  |      |             | 16B  | 9     |        | GND003 | 01       |      |        | EXT              |       |                     |                    |                    | B01    |
| 21153         |        | XA202     | 06                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 04032         |        | XA202     | 07                              |        | XA331     | 20  |      |             | 16B  | 9     |        | KIOC1B | 04       |      |        | EXT              |       |                     |                    |                    |        |
| 20278         |        | XA202     | 08                              |        |           |     |      |             |      |       |        | KIOC1G | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 21154         |        | XA202     | 08                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 04039         |        | XA202     | 09                              |        |           |     |      |             |      |       |        | KIOC2B | 05       |      |        | EXT              |       |                     |                    |                    |        |
| 20280         |        | XA202     | 10                              |        |           |     |      |             |      |       |        | KIOC2G | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 20901         |        | XA202     | 10                              |        |           |     |      |             |      |       |        | GND003 | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 04041         |        | XA202     | 11                              |        | XA117     | 41  |      |             | 16B  | 9     |        | KIOC4B | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 20282         |        | XA202     | 12                              |        |           |     |      |             |      |       |        | KIOC4G | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 21155         |        | XA202     | 12                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 04051         |        | XA202     | 13                              |        |           |     |      |             |      |       |        | KIOC8B | 05       |      |        | EXT              |       |                     |                    |                    |        |
| 20284         |        | XA202     | 14                              |        |           |     |      |             |      |       |        | KIOC8G | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 21156         |        | XA202     | 14                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 06650         |        | XA202     | 15                              |        |           |     |      |             |      |       |        | SPP    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 01999         |        | XA202     | 16                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 06651         |        | XA202     | 17                              |        |           |     |      |             |      |       |        | SPP    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 02000         |        | XA202     | 18                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 04027         |        | XA202     | 19                              |        |           |     |      |             |      |       |        | KIOCTB | 05       |      |        | EXT              |       |                     |                    |                    |        |
| 20276         |        | XA202     | 20                              |        |           |     |      |             |      |       |        | KIOCTG | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 21157         |        | XA202     | 20                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 04327         |        | XA202     | 21                              |        |           |     |      |             |      |       |        | KPRGTB | 05       |      |        | EXT              |       |                     |                    |                    |        |
| 20306         |        | XA202     | 22                              |        |           |     |      |             |      |       |        | KPRGTG | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 21158         |        | XA202     | 22                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 04053         |        | XA202     | 23                              |        | XA117     | 27  |      |             | 16B  | 9     |        | KIOPRB | 01       |      |        | EXT              |       |                     |                    |                    |        |
| 20286         |        | XA202     | 24                              |        |           |     |      |             |      |       |        | KIOPRG | 02       |      |        | EXT              |       |                     |                    |                    |        |
| 21159         |        | XA202     | 24                              |        |           |     |      |             |      |       |        | GND    | 01       |      |        | EXT              |       |                     |                    |                    |        |
| CONNECTOR     |        | XA202     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA202  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 92

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CRT OR SHIP TYPE | LOAD OR POWER PLANE | TEST POINTS LAND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|--------|--------|----------|------|--------|------------------|---------------------|---------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH 70 | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |                     |                     |                    |        |
| 04063   |        | XA202     | 25  |        |           |     |       |             |      |       |        | K10T0B | 05       |      |        |                  |                     |                     |                    |        |
| 20290   |        | XA202     | 26  |        |           |     |       |             |      |       |        | K10T0G | 02       |      |        |                  |                     |                     |                    |        |
| 21160   |        | XA202     | 26  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 04071   |        | XA202     | 27  |        | XA118     | 14  |       |             | 16B  | 9     |        | KMCPRB | 01       |      |        |                  |                     |                     |                    |        |
| 20292   |        | XA202     | 28  |        |           |     |       |             |      |       |        | KMCPRG | 02       |      |        |                  |                     |                     |                    |        |
| 21161   |        | XA202     | 28  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 04101   |        | XA202     | 29  |        |           |     |       |             |      |       |        | KMEPRB | 05       |      |        |                  |                     |                     |                    |        |
| 20300   |        | XA202     | 30  |        |           |     |       |             |      |       |        | KMEPRG | 02       |      |        |                  |                     |                     |                    |        |
| 21162   |        | XA202     | 30  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 04105   |        | XA202     | 31  |        |           |     |       |             |      |       |        | KMET0B | 05       |      |        |                  |                     |                     |                    |        |
| 20302   |        | XA202     | 32  |        |           |     |       |             |      |       |        | KMET0G | 02       |      |        |                  |                     |                     |                    |        |
| 21163   |        | XA202     | 32  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 04117   |        | XA202     | 33  |        |           |     |       |             |      |       |        | KMIT0B | 05       |      |        |                  |                     |                     |                    |        |
| 20304   |        | XA202     | 34  |        |           |     |       |             |      |       |        | KMIT0G | 02       |      |        |                  |                     |                     |                    |        |
| 21164   |        | XA202     | 34  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 06652   |        | XA202     | 35  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |                     |                     |                    |        |
| 02001   |        | XA202     | 36  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 04079   |        | XA202     | 37  |        | XA117     | 60  |       |             | 16B  | 9     |        | KMEA1B | 01       |      |        |                  |                     |                     |                    |        |
| 20294   |        | XA202     | 38  |        |           |     |       |             |      |       |        | KMEA1G | 02       |      |        |                  |                     |                     |                    |        |
| 21165   |        | XA202     | 38  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 04085   |        | XA202     | 39  |        | XA117     | 55  |       |             | 16B  | 9     |        | KMEA2B | 01       |      |        |                  |                     |                     |                    |        |
| 20296   |        | XA202     | 40  |        |           |     |       |             |      |       |        | KMEA2G | 02       |      |        |                  |                     |                     |                    |        |
| 21166   |        | XA202     | 40  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 04091   |        | XA202     | 41  |        | XA117     | 46  |       |             | 16B  | 9     |        | KMEA4B | 01       |      |        |                  |                     |                     |                    |        |
| 20298   |        | XA202     | 42  |        |           |     |       |             |      |       |        | KMEA4G | 02       |      |        |                  |                     |                     |                    |        |
| 21167   |        | XA202     | 42  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 06653   |        | XA202     | 43  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |                     |                     |                    |        |
| 02002   |        | XA202     | 44  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 04365   |        | XA202     | 45  |        |           |     |       |             |      |       |        | KSYSTB | 05       |      |        |                  |                     |                     |                    |        |
| 20310   |        | XA202     | 46  |        |           |     |       |             |      |       |        | KSYSTG | 02       |      |        |                  |                     |                     |                    |        |
| 21168   |        | XA202     | 46  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 17404   |        | XA202     | 47  |        |           |     |       |             |      |       |        | WKSTCA | 02       |      |        |                  |                     |                     |                    |        |
| 02003   |        | XA202     | 48  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 20559   |        | XA202     | 49  |        | XA210     | 35  |       |             | 16B  | 9     |        | WKST0A | 01       |      |        |                  |                     |                     |                    |        |
| 02004   |        | XA202     | 50  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 17392   |        | XA202     | 51  |        |           |     |       |             |      |       |        | WKML1A | 02       |      |        |                  |                     |                     |                    |        |
| 02005   |        | XA202     | 52  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 17393   |        | XA202     | 53  |        | XA213     | 47  |       |             | 16B  | 9     |        | WKML2A | 01       |      |        |                  |                     |                     |                    |        |
| 02006   |        | XA202     | 54  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 17396   |        | XA202     | 55  |        |           |     |       |             |      |       |        | WKML4A | 02       |      |        |                  |                     |                     |                    |        |
| 02007   |        | XA202     | 56  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 17397   |        | XA202     | 57  |        | XA213     | 45  |       |             | 16B  | 9     |        | WKMM1A | 01       |      |        |                  |                     |                     |                    |        |
| 02008   |        | XA202     | 58  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 17400   |        | XA202     | 59  |        |           |     |       |             |      |       |        | WKMM2A | 02       |      |        |                  |                     |                     |                    |        |
| 02009   |        | XA202     | 60  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 17401   |        | XA202     | 61  |        | XA213     | 20  |       |             | 16B  | 9     |        | WKMM4A | 01       |      |        |                  |                     |                     |                    |        |
| 02010   |        | XA202     | 62  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 06654   |        | XA202     | 63  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |                     |                     |                    |        |
| 02011   |        | XA202     | 64  |        |           |     |       |             |      |       |        | GND    | 01       |      |        |                  |                     |                     |                    |        |
| 06655   |        | XA202     | 65  |        |           |     |       |             |      |       |        | SPP    | 01       |      |        |                  |                     |                     |                    |        |
| CONNECTOR XA202 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |        |        |          |      |        |                  |                     |                     |                    |        |



DRAWING NUMBER 149019-880

CONNECTOR

UNIT ASSEMBLY NO. 149019

REV G INDEX GXA202

UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

FILE IDENT

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| RECORD NUMBER | FROM   |           |                                 |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SM/FA | PREFIX | CONNECTOR | PIN | SM/FA | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 02012         |        | XA202     | 66                              |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20564         |        | XA202     | 67                              |       | XA337  | 71        |     |       | 16B         | 9    |       |       | WRSTCA4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02013         |        | XA202     | 68                              |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20566         |        | XA202     | 69                              |       | XA337  | 76        |     |       | 16B         | 9    |       |       | WRSTC04 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02014         |        | XA202     | 70                              |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 17389         |        | XA202     | 71                              |       | XA107  | 09        |     |       | 16B         | 9    |       |       | WKLTSB  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03162         |        | XA202     | 72                              |       |        |           |     |       |             |      |       |       | GND004  | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21169         |        | XA202     | 72                              |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03944         |        | XA202     | 73                              |       | XA201  | 73        |     |       | 16B         | 9    |       |       | KGND0B  | 00C    |          |      |        | EXT              |       |                     |                    |                    |        |
| 03161         |        | XA202     | 74                              |       | XA202  | 72        |     |       | 16B         | 9    |       |       | GND004  | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06656         |        | XA202     | 75                              |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03160         |        | XA202     | 76                              |       | XA202  | 74        |     |       | 16B         | 9    |       |       | GND004  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 00270         |        | XA202     | 77                              |       |        |           |     |       |             |      |       |       | +5LAMP  | 04     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02015         |        | XA202     | 78                              |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 00269         |        | XA202     | 79                              |       | XA202  | 77        |     |       | 16B         | 9    |       |       | +5LAMP  | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02016         |        | XA202     | 80                              |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03773         |        | XA203     | 01                              |       | XA204  | 05        |     |       | 16B         | 9    |       |       | JMPEID4 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03172         |        | XA203     | 02                              |       |        |           |     |       |             |      |       |       | GND005  | 10     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03525         |        | XA203     | 03                              |       | XA204  | 19        |     |       | 16B         | 9    |       |       | JBSTAD4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03171         |        | XA203     | 04                              |       | XA203  | 02        |     |       | 16B         | 9    |       |       | GND005  | 09     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03733         |        | XA203     | 05                              |       | XA127  | 33        |     |       | 16B         | 9    |       |       | JDIG104 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03170         |        | XA203     | 06                              |       | XA203  | 04        |     |       | 16B         | 9    |       |       | GND005  | 08     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03736         |        | XA203     | 07                              |       | XA127  | 30        |     |       | 16B         | 9    |       |       | JDIG204 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03169         |        | XA203     | 08                              |       | XA203  | 06        |     |       | 16B         | 9    |       |       | GND005  | 07     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03739         |        | XA203     | 09                              |       | XA127  | 38        |     |       | 16B         | 9    |       |       | JDIG304 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03168         |        | XA203     | 10                              |       | XA203  | 08        |     |       | 16B         | 9    |       |       | GND005  | 06     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03742         |        | XA203     | 11                              |       | XA127  | 27        |     |       | 16B         | 9    |       |       | JDIG404 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03167         |        | XA203     | 12                              |       | XA203  | 10        |     |       | 16B         | 9    |       |       | GND005  | 05     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03745         |        | XA203     | 13                              |       | XA127  | 21        |     |       | 16B         | 9    |       |       | JDIG504 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03166         |        | XA203     | 14                              |       | XA203  | 12        |     |       | 16B         | 9    |       |       | GND005  | 04     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03748         |        | XA203     | 15                              |       | XA127  | 14        |     |       | 16B         | 9    |       |       | JDIG604 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03165         |        | XA203     | 16                              |       | XA203  | 14        |     |       | 16B         | 9    |       |       | GND005  | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20245         |        | XA203     | 17                              |       |        |           |     |       |             |      |       |       | JDIG8B4 | 04     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03164         |        | XA203     | 18                              |       | XA203  | 16        |     |       | 16B         | 9    |       |       | GND005  | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03794         |        | XA203     | 19                              |       | XA204  | 10        |     |       | 16B         | 9    |       |       | JQMPED4 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03163         |        | XA203     | 20                              |       | XA203  | 18        |     |       | 16B         | 9    |       |       | GND005  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03796         |        | XA203     | 21                              |       | XA204  | 24        |     |       | 16B         | 9    |       |       | JQMT004 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03182         |        | XA203     | 22                              |       |        |           |     |       |             |      |       |       | GND006  | 10     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03729         |        | XA203     | 23                              |       | XA142  | 19        |     |       | 16B         | 9    |       |       | JDECAD4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03181         |        | XA203     | 24                              |       | XA203  | 22        |     |       | 16B         | 9    |       |       | GND006  | 09     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03812         |        | XA203     | 25                              |       |        |           |     |       |             |      |       |       | JOFRAD4 | 04     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03180         |        | XA203     | 26                              |       | XA203  | 24        |     |       | 16B         | 9    |       |       | GND006  | 08     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03759         |        | XA203     | 27                              |       | XA204  | 26        |     |       | 16B         | 9    |       |       | JITRAD4 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03179         |        | XA203     | 28                              |       | XA203  | 26        |     |       | 16B         | 9    |       |       | GND006  | 07     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03760         |        | XA203     | 29                              |       | XA204  | 20        |     |       | 16B         | 9    |       |       | JITRS04 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03178         |        | XA203     | 30                              |       | XA203  | 28        |     |       | 16B         | 9    |       |       | GND006  | 06     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03757         |        | XA203     | 31                              |       |        |           |     |       |             |      |       |       | JIPEBD4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03177         |        | XA203     | 32                              |       | XA203  | 30        |     |       | 16B         | 9    |       |       | GND006  | 05     |          |      |        | EXT              |       |                     |                    |                    |        |
| CONNECTOR     |        | XA203     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880

CONNECTOR

UNIT ASSEMBLY NO. 149019

REV G

INDEX XA203

UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

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| RECORD NUMBER | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | IN FC | PREFIX | CONNECTOR | PIN | IN FC | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |             |                  |       |                     |                    |                    |        |
| 03768         |        | XA203     | 33  |       |        |           |     |       |             |      |       |       | JITT004       | 03     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03176         |        | XA203     | 34  |       | XA203  | 32        |     |       |             | 16B  | 9     |       | GND006        | 04     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03522         |        | XA203     | 35  |       | XA217  | 65        |     |       |             | 16B  | 9     |       | JACKAD4       | 02     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03175         |        | XA203     | 36  |       | XA203  | 34        |     |       |             | 16B  | 9     |       | GND006        | 03     |        |          |             | EXT              |       |                     |                    |                    |        |
| 20244         |        | XA203     | 37  |       | XA108  | 76        |     |       |             | 16B  | 9     |       | JCPUEB4       | 005    |        |          |             | EXT              |       |                     |                    |                    |        |
| 03174         |        | XA203     | 36  |       | XA203  | 36        |     |       |             | 16B  | 9     |       | GND006        | 02     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03792         |        | XA203     | 39  |       |        |           |     |       |             |      |       |       | JPWFSB4       | 03     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03173         |        | XA203     | 40  |       | XA203  | 38        |     |       |             | 16B  | 9     |       | GND006        | 01     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03774         |        | XA203     | 41  |       | XA425  | 46        |     |       |             | 16B  | 9     |       | JMRSAB4       | 01     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03192         |        | XA203     | 42  |       |        |           |     |       |             |      |       |       | GND007        | 10     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03777         |        | XA203     | 43  |       | XA410  | 46        |     |       |             | 16B  | 9     |       | JMTSAB4       | 02     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03191         |        | XA203     | 44  |       | XA203  | 42        |     |       |             | 16B  | 9     |       | GND007        | 09     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03807         |        | XA203     | 45  |       | XA426  | 57        |     |       |             | 16B  | 9     |       | JS77AD4       | 02     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03190         |        | XA203     | 46  |       | XA203  | 44        |     |       |             | 16B  | 9     |       | GND007        | 08     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03804         |        | XA203     | 47  |       | XA204  | 23        |     |       |             | 16B  | 9     |       | JS02AD4       | 02     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03189         |        | XA203     | 48  |       | XA203  | 46        |     |       |             | 16B  | 9     |       | GND007        | 07     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03800         |        | XA203     | 49  |       | XA204  | 29        |     |       |             | 16B  | 9     |       | JSTPAD4       | 01     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03188         |        | XA203     | 50  |       | XA203  | 48        |     |       |             | 16B  | 9     |       | GND007        | 06     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03770         |        | XA203     | 51  |       | XA204  | 36        |     |       |             | 16B  | 9     |       | JLITAD4       | 02     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03187         |        | XA203     | 52  |       | XA203  | 50        |     |       |             | 16B  | 9     |       | GND007        | 05     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03797         |        | XA203     | 53  |       | XA204  | 38        |     |       |             | 16B  | 9     |       | JSSGAD4       | 01     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03186         |        | XA203     | 54  |       | XA203  | 52        |     |       |             | 16B  | 9     |       | GND007        | 04     |        |          |             | EXT              |       |                     |                    |                    |        |
| 06657         |        | XA203     | 55  |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03185         |        | XA203     | 56  |       | XA203  | 54        |     |       |             | 16B  | 9     |       | GND007        | 03     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03722         |        | XA203     | 57  |       |        |           |     |       |             |      |       |       | JDDI1A        | 02     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03184         |        | XA203     | 58  |       | XA203  | 56        |     |       |             | 16B  | 9     |       | GND007        | 02     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03726         |        | XA203     | 59  |       |        |           |     |       |             |      |       |       | JDDI2A        | 02     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03183         |        | XA203     | 60  |       | XA203  | 58        |     |       |             | 16B  | 9     |       | GND007        | 01     |        |          |             | EXT              |       |                     |                    |                    |        |
| 20538         |        | XA203     | 61  |       | XA411  | 46        |     |       |             | 16B  | 9     |       | UICTAB4       | 00C    |        |          |             | EXT              |       |                     |                    |                    |        |
| 03202         |        | XA203     | 62  |       |        |           |     |       |             |      |       |       | GND008        | 10     |        |          |             | EXT              |       |                     |                    |                    |        |
| 20539         |        | XA203     | 63  |       | XA411  | 35        |     |       |             | 16B  | 9     |       | UICTDB4       | 005    |        |          |             | EXT              |       |                     |                    |                    |        |
| 03201         |        | XA203     | 64  |       | XA203  | 62        |     |       |             | 16B  | 9     |       | GND008        | 09     |        |          |             | EXT              |       |                     |                    |                    |        |
| 20534         |        | XA203     | 65  |       | XA411  | 29        |     |       |             | 16B  | 9     |       | UICRTB4       | 00C    |        |          |             | EXT              |       |                     |                    |                    |        |
| 03200         |        | XA203     | 66  |       | XA203  | 64        |     |       |             | 16B  | 9     |       | GND008        | 08     |        |          |             | EXT              |       |                     |                    |                    |        |
| 20536         |        | XA203     | 67  |       | XA411  | 42        |     |       |             | 16B  | 9     |       | UICSMB4       | 00C    |        |          |             | EXT              |       |                     |                    |                    |        |
| 03199         |        | XA203     | 68  |       | XA203  | 66        |     |       |             | 16B  | 9     |       | GND008        | 07     |        |          |             | EXT              |       |                     |                    |                    |        |
| 20535         |        | XA203     | 69  |       | XA410  | 25        |     |       |             | 16B  | 9     |       | UICSCB4       | 00C    |        |          |             | EXT              |       |                     |                    |                    |        |
| 03198         |        | XA203     | 70  |       | XA203  | 68        |     |       |             | 16B  | 9     |       | GND008        | 06     |        |          |             | EXT              |       |                     |                    |                    |        |
| 20537         |        | XA203     | 71  |       | XA410  | 42        |     |       |             | 16B  | 9     |       | UICSSB4       | 00C    |        |          |             | EXT              |       |                     |                    |                    |        |
| 03197         |        | XA203     | 72  |       | XA203  | 70        |     |       |             | 16B  | 9     |       | GND008        | 05     |        |          |             | EXT              |       |                     |                    |                    |        |
| 20533         |        | XA203     | 73  |       | XA410  | 29        |     |       |             | 16B  | 9     |       | UICPEB4       | 00C    |        |          |             | EXT              |       |                     |                    |                    |        |
| 03196         |        | XA203     | 74  |       | XA203  | 72        |     |       |             | 16B  | 9     |       | GND008        | 04     |        |          |             | EXT              |       |                     |                    |                    |        |
| 20540         |        | XA203     | 75  |       |        |           |     |       |             |      |       |       | URTCIB4       | 03     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03195         |        | XA203     | 76  |       | XA203  | 74        |     |       |             | 16B  | 9     |       | GND008        | 03     |        |          |             | EXT              |       |                     |                    |                    |        |
| 06658         |        | XA203     | 77  |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03194         |        | XA203     | 78  |       | XA203  | 76        |     |       |             | 16B  | 9     |       | GND008        | 02     |        |          |             | EXT              |       |                     |                    |                    |        |
| 06659         |        | XA203     | 79  |       |        |           |     |       |             |      |       |       | SPP           | 01     |        |          |             | EXT              |       |                     |                    |                    |        |
| 03193         |        | XA203     | 80  |       | XA203  | 78        |     |       |             | 16B  | 9     |       | GND008        | 01     |        |          |             | EXT              |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA204  
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| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SPEC INST | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | OHMP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|-----------|---------|--------|----------|------|--------|------------------|------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |           |         |        |          |      |        |                  |      |                     |                    |                    |        |
| 00878   |        | XA204     | 01  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |        | RR4              |      |                     |                    |                    |        |
| 02017   |        | XA204     | 02  |        |           |     |             |      |       |       |           | GND     | 01     |          |      |        | RR4              |      |                     |                    |                    |        |
| 21354   |        | XA204     | 02  |        |           |     |             |      |       |       |           | G20402  | 06     |          |      |        | RR4              |      |                     |                    |                    | B05    |
| 00033   |        | XA204     | 03  |        | XA204     | 04  |             |      | 168   | 9     |           | +05RES1 | 130    |          |      |        | RR4              | AP   |                     |                    |                    | B04    |
| 00034   |        | XA204     | 04  |        | XA204     | 13  |             |      | 168   | 9     |           | +05RES1 | 135    |          |      |        | RR4              | AP   |                     |                    |                    | B04    |
| 07681   |        | XA204     | 05  |        |           |     |             |      |       |       |           | JMPEID4 | 03     |          |      |        | RR4              | A3   |                     |                    |                    |        |
| 03466   |        | XA204     | 06  |        | XA204     | 02  |             |      | 168   | 9     |           | G20402  | 05     |          |      |        | RR4              | AC   |                     |                    |                    | B05    |
| 07682   |        | XA204     | 07  |        |           |     |             |      |       |       |           | SPR     | 01     |          |      |        | RR4              | A4   |                     |                    |                    |        |
| 07683   |        | XA204     | 08  |        |           |     |             |      |       |       |           | SPR     | 01     |          |      |        | RR4              | A1   |                     |                    |                    |        |
| 07684   |        | XA204     | 09  |        |           |     |             |      |       |       |           | SPR     | 01     |          |      |        | RR4              | A5   |                     |                    |                    |        |
| 07685   |        | XA204     | 10  |        |           |     |             |      |       |       |           | JQMPED4 | 03     |          |      |        | RR4              | A2   |                     |                    |                    |        |
| 00879   |        | XA204     | 11  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |        | RR4              |      |                     |                    |                    |        |
| 00374   |        | XA204     | 12  |        |           |     |             |      |       |       |           | +5V     | 01     |          |      |        | RR4              |      |                     |                    |                    |        |
| 00035   |        | XA204     | 13  |        | XA204     | 14  |             |      | 168   | 9     |           | +05RES1 | 140    |          |      |        | RR4              | BP   |                     |                    |                    | B04    |
| 00036   |        | XA204     | 14  |        | XA318     | 03  |             |      | 168   | 9     |           | +05RES1 | 145    |          |      |        | RR4              | BP   |                     |                    |                    | B04    |
| 03856   |        | XA204     | 15  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |        | RR4              |      |                     | KEYWAY             |                    | C04    |
| 03857   |        | XA204     | 16  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |        | RR4              |      |                     | KEYWAY             |                    | C04    |
| 03521   |        | XA204     | 17  |        | XA203     | 35  |             |      | 168   | 9     |           | JACKAD4 | 01     |          |      |        | RR4              | B4   |                     |                    |                    |        |
| 03465   |        | XA204     | 18  |        | XA204     | 06  |             |      | 168   | 9     |           | G20402  | 04     |          |      |        | RR4              | BC   |                     |                    |                    | B05    |
| 03526   |        | XA204     | 19  |        | XA308     | 50  |             |      | 168   | 9     |           | JBSTAD4 | 02     |          |      |        | RR4              | B5   |                     |                    |                    |        |
| 07686   |        | XA204     | 20  |        | XA351     | 03  |             |      | 168   | 9     |           | JITRSD4 | 015    |          |      |        | RR4              | B1   |                     |                    |                    |        |
| 00207   |        | XA204     | 21  |        | XA107     | 30  |             |      | 168   | 9     |           | +05VIC  | 07     |          |      |        | RR4              | CP   |                     |                    |                    |        |
| 00206   |        | XA204     | 22  |        |           |     |             |      |       |       |           | SPF     | 01     |          |      |        | RR4              | CP   |                     | +05VIC             |                    | B04    |
| 03805   |        | XA204     | 23  |        |           |     |             |      |       |       |           | JS02AD4 | 03     |          |      |        | RR4              | C3   |                     |                    |                    |        |
| 07687   |        | XA204     | 24  |        |           |     |             |      |       |       |           | JQMTOD4 | 03     |          |      |        | RR4              | B3   |                     |                    |                    |        |
| 03806   |        | XA204     | 25  |        | XA203     | 45  |             |      | 168   | 9     |           | JS77AD4 | 01     |          |      |        | RR4              | C4   |                     |                    |                    |        |
| 07688   |        | XA204     | 26  |        |           |     |             |      |       |       |           | JITRAD4 | 03     |          |      |        | RR4              | B2   |                     |                    |                    |        |
| 00880   |        | XA204     | 27  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |        | RR4              |      |                     |                    |                    |        |
| 00375   |        | XA204     | 28  |        |           |     |             |      |       |       |           | +5V     | 01     |          |      |        | RR4              |      |                     |                    |                    |        |
| 03801   |        | XA204     | 29  |        | XA249     | 01  |             |      | 168   | 9     |           | JSTPAD4 | 02     |          |      |        | RR4              | C5   |                     |                    |                    |        |
| 03464   |        | XA204     | 30  |        | XA204     | 18  |             |      | 168   | 9     |           | G20402  | 03     |          |      |        | RR4              | CC   |                     |                    |                    | B05    |
| 00881   |        | XA204     | 31  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |        | RR4              |      |                     |                    |                    |        |
| 02018   |        | XA204     | 32  |        |           |     |             |      |       |       |           | GND     | 01     |          |      |        | RR4              |      |                     |                    |                    |        |
| 20902   |        | XA204     | 32  |        | XA203     | 40  |             |      | 168   | 9     |           | GND006  | 005    |          |      |        | RR4              |      |                     |                    |                    |        |
| 21353   |        | XA204     | 32  |        | XA204     | 40  |             |      | 168   | 9     |           | G20402  | 01     |          |      |        | RR4              |      |                     |                    |                    | B05    |
| 00208   |        | XA204     | 33  |        | XA204     | 21  |             |      | 168   | 9     |           | +05VIC  | 06     |          |      |        | RR4              | DP   |                     |                    |                    |        |
| 00209   |        | XA204     | 34  |        |           |     |             |      |       |       |           | SPF     | 01     |          |      |        | RR4              | DP   |                     | +05VIC             |                    | B04    |
| 03767   |        | XA204     | 35  |        | XA203     | 33  |             |      | 168   | 9     |           | JITTD4  | 02     |          |      |        | RR4              | D3   |                     |                    |                    |        |
| 03771   |        | XA204     | 36  |        |           |     |             |      |       |       |           | JLITAD4 | 03     |          |      |        | RR4              | C1   |                     |                    |                    |        |
| 03732   |        | XA204     | 37  |        | XA203     | 05  |             |      | 168   | 9     |           | JDIG1D4 | 01     |          |      |        | RR4              | D4   |                     |                    |                    |        |
| 03798   |        | XA204     | 38  |        | XA249     | 06  |             |      | 168   | 9     |           | JSSGAD4 | 02     |          |      |        | RR4              | C2   |                     |                    |                    |        |
| 03735   |        | XA204     | 39  |        | XA203     | 07  |             |      | 168   | 9     |           | JDIG2D4 | 01     |          |      |        | RR4              | D5   |                     |                    |                    |        |
| 03463   |        | XA204     | 40  |        | XA204     | 30  |             |      | 168   | 9     |           | G20402  | 02     |          |      |        | RR4              | DC   |                     |                    |                    | B05    |
| 03752   |        | XA204     | 41  |        | XA203     | 17  |             |      | 168   | 9     |           | JDIG8B4 | 03     |          |      |        | RR4              | E5   |                     |                    |                    |        |
| 07689   |        | XA204     | 42  |        | XA203     | 41  |             |      | 168   | 9     |           | JMRSAB4 | 005    |          |      |        | RR4              | D1   |                     |                    |                    |        |
| 00882   |        | XA204     | 43  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |        | RR4              |      |                     |                    |                    |        |
| 02019   |        | XA204     | 44  |        |           |     |             |      |       |       |           | GND     | 01     |          |      |        | RR4              |      |                     |                    |                    |        |
| 21356   |        | XA204     | 44  |        |           |     |             |      |       |       |           | G20444  | 06     |          |      |        | RR4              |      |                     |                    |                    | B05    |
| 21440   |        | XA204     | 44  |        |           |     |             |      |       |       |           | JDB22G  | 02     |          |      |        | RR4              |      |                     |                    |                    | C07    |
| 03747   |        | XA204     | 45  |        | XA203     | 15  |             |      | 168   | 9     |           | JDIG6D4 | 01     |          |      |        | RR4              | E4   |                     |                    |                    |        |
| CONNECTOR XA204 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |           |         |        |          |      |        |                  |      |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA204  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 96

| RECORD NUMBER                                     | FROM   |           |     | TO  |           |     | WIRE |             |      |       | SIGNAL | SEG NO  | EQUATION | TERM FACTOR | CMT OR CHIP TYPE | GAMP | LOAD OR POWER PLANS | TEST POINTS |                | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|-----------|-----|------|-------------|------|-------|--------|---------|----------|-------------|------------------|------|---------------------|-------------|----------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR |        |         |          |             |                  |      |                     | IDENT       | SPEC INST MISC |                    |        |
| 07690   |        | XA204     | 46  |     |           |     |      |             |      |       |        | SPR     | 01       |             |                  | RR4  | D2                  |             |                |                    |        |
| 03744   |        | XA204     | 47  |     | XA203     | 13  |      |             | 16B  | 9     |        | JDIG5D4 | 01       |             |                  | RR4  | E3                  |             |                |                    |        |
| 03741   |        | XA204     | 48  |     | XA203     | 11  |      |             | 16B  | 9     |        | JDIG4D4 | 01       |             |                  | RR4  | E2                  |             |                |                    |        |
| 00211   |        | XA204     | 49  |     | XA204     | 33  |      |             | 16B  | 9     |        | +05VIC  | 05       |             |                  | RR4  | EP                  |             |                |                    |        |
| 00210   |        | XA204     | 50  |     |           |     |      |             |      |       |        | SPF     | 01       |             |                  | RR4  | EP                  |             |                | +05VIC             | B04    |
| 03665   |        | XA204     | 51  |     | XA301     | 45  |      |             | 16B  | 9     |        | JDB22B4 | 03       |             |                  | RR4  | F5                  |             |                |                    |        |
| 03738   |        | XA204     | 52  |     | XA203     | 09  |      |             | 16B  | 9     |        | JDIG3D4 | 01       |             |                  | RR4  | E1                  |             |                |                    |        |
| 03671   |        | XA204     | 53  |     | XA125     | 51  |      | HE          | 1EB  | 9     |        | JDB23B4 | 03       |             |                  | RR4  | F4                  |             |                |                    | C07    |
| 03462   |        | XA204     | 54  |     | XA204     | 44  |      |             | 16B  | 9     |        | G20444  | 05       |             |                  | RR4  | EC                  |             |                |                    | B05    |
| 03677   |        | XA204     | 55  |     | XA125     | 64  |      | HF          | 1EB  | 9     |        | JDB24B4 | 03       |             |                  | RR4  | F3                  |             |                |                    | C07    |
| 03683   |        | XA204     | 56  |     | XA125     | 61  |      | HG          | 1EB  | 9     |        | JDB25B4 | 03       |             |                  | RR4  | F2                  |             |                |                    | C07    |
| 03858   |        | XA204     | 57  |     |           |     |      |             |      |       |        | DNW     | 01       |             |                  | RR4  |                     |             |                | KEYWAY             | C04    |
| 03859   |        | XA204     | 58  |     |           |     |      |             |      |       |        | DNW     | 01       |             |                  | RR4  |                     |             |                | KEYWAY             | C04    |
| 00212   |        | XA204     | 59  |     | XA204     | 49  |      |             | 16B  | 9     |        | +05VIC  | 04       |             |                  | RR4  | FP                  |             |                |                    |        |
| 00213   |        | XA204     | 60  |     |           |     |      |             |      |       |        | SPF     | 01       |             |                  | RR4  | FP                  |             |                | +05VIC             | B04    |
| 03690   |        | XA204     | 61  |     | XA301     | 53  |      |             | 16B  | 9     |        | JDB26B4 | 04       |             |                  | RR4  | G5                  |             |                |                    |        |
| 03696   |        | XA204     | 62  |     | XA301     | 55  |      |             | 16B  | 9     |        | JDB27B4 | 04       |             |                  | RR4  | F1                  |             |                |                    |        |
| 03701   |        | XA204     | 63  |     | XA124     | 47  |      | HJ          | 1EB  | 9     |        | JDB28B4 | 03       |             |                  | RR4  | G4                  |             |                |                    | C07    |
| 03461   |        | XA204     | 64  |     | XA204     | 54  |      |             | 16B  | 9     |        | G20444  | 04       |             |                  | RR4  | FC                  |             |                |                    | B05    |
| 03708   |        | XA204     | 65  |     | XA126     | 72  |      | HK          | 1EB  | 9     |        | JDB29B4 | 04       |             |                  | RR4  | G3                  |             |                |                    | C07    |
| 03714   |        | XA204     | 66  |     | XA126     | 69  |      | HM          | 1EB  | 9     |        | JDB30B4 | 04       |             |                  | RR4  | G2                  |             |                |                    | C07    |
| 02020   |        | XA204     | 67  |     |           |     |      |             |      |       |        | GND     | 01       |             |                  | RR4  |                     |             |                |                    |        |
| 21355   |        | XA204     | 67  | 1   | XA204     | 74  |      | 1           | 16B  | 9     |        | G20444  | 01       |             |                  | RR4  |                     |             |                |                    | B05    |
| 21450   |        | XA204     | 67  |     | XA124     | 44  |      | HJ          | 1EB  | 0     |        | JDB28G  | 01       |             |                  | RR4  |                     |             |                |                    | C07    |
| 21455   |        | XA204     | 67  |     |           |     |      |             |      |       |        | JDB27G  | 02       |             |                  |      |                     |             |                |                    | E04    |
| 00883   |        | XA204     | 68  |     |           |     |      |             |      |       |        | DNW     | 01       |             |                  | RR4  |                     |             |                |                    |        |
| 00215   |        | XA204     | 69  |     | XA204     | 59  |      |             | 16B  | 9     |        | +05VIC  | 03       |             |                  | RR4  | GP                  |             |                |                    |        |
| 00214   |        | XA204     | 70  |     |           |     |      |             |      |       |        | SPF     | 01       |             |                  | RR4  | GP                  |             |                | +05VIC             | B04    |
| 03717   |        | XA204     | 71  |     | XA126     | 80  |      | HN          | 1EB  | 9     |        | JDB31B4 | 02       |             |                  | RR4  | H5                  |             |                |                    | C07    |
| 07691   |        | XA204     | 72  |     |           |     |      |             |      |       |        | SPR     | 01       |             |                  | RR4  | G1                  |             |                |                    |        |
| 07692   |        | XA204     | 73  |     |           |     |      |             |      |       |        | SPR     | 01       |             |                  | RR4  | H4                  |             |                |                    |        |
| 03459   |        | XA204     | 74  |     | XA204     | 77  |      |             | 16B  | 9     |        | G20444  | 02       |             |                  | RR4  | GC                  |             |                |                    | B05    |
| 07693   |        | XA204     | 75  |     |           |     |      |             |      |       |        | SPR     | 01       |             |                  | RR4  | H3                  |             |                |                    |        |
| 07694   |        | XA204     | 76  |     |           |     |      |             |      |       |        | SPR     | 01       |             |                  | RR4  | H2                  |             |                |                    |        |
| 03460   |        | XA204     | 77  |     | XA204     | 64  |      |             | 16B  | 9     |        | G20444  | 03       |             |                  | RR4  | HC                  |             |                |                    | B05    |
| 07695   |        | XA204     | 78  |     |           |     |      |             |      |       |        | SPR     | 01       |             |                  | RR4  | H1                  |             |                |                    |        |
| 00216   |        | XA204     | 79  |     | XA204     | 69  |      |             | 16B  | 9     |        | +05VIC  | 02       |             |                  | RR4  | HP                  |             |                |                    |        |
| 00217   |        | XA204     | 80  |     |           |     |      |             |      |       |        | SPF     | 01       |             |                  | RR4  | HP                  |             |                | +05VIC             | B04    |
| 12577   |        | XA205     | 01  |     | XA247     | 04  |      |             | 16B  | 9     |        | TES3AA  | 03       | TES3AA      | 00               | 1    | THI                 | A4          | 02B            | PRESET TE 0,1,7    |        |
| 02021   |        | XA205     | 02  |     |           |     |      |             |      |       |        | GND     | 01       |             |                  | THI  |                     | 01A         |                |                    |        |
| 12563   |        | XA205     | 03  |     | XA247     | 01  |      |             | 16B  | 9     |        | TES1AA  | 01       | TES1AA      | 00               | 1    | THI                 | A3          | 03A            |                    |        |
| 12567   |        | XA205     | 04  |     |           |     |      |             |      |       |        | TES1AO  | 02       | TES1AA      | 01               | 1    | THI                 | A3          | 02A            |                    |        |
| 12581   |        | XA205     | 05  |     |           |     |      |             |      |       |        | TES3AO  | 02       | TES3AA      | 01               | 1    | THI                 | A4          | 03B            |                    |        |
| 05220   |        | XA205     | 06  |     | XA205     | 20  |      |             | 16B  | 9     |        | SPI013  | 20       |             |                  | 01   | 1                   | THI         | A2             | 05A                |        |
| 12591   |        | XA205     | 07  |     |           |     |      |             |      |       |        | TES4AO  | 04       | TES4AO      | 00               | 1    | THI                 | A5          | 04B            | STATE S23.I0 -0    |        |
| 07856   |        | XA205     | 08  |     |           |     |      |             |      |       |        | SPO     | 01       |             |                  | 00   | 1                   | THI         | A2             | 04A                |        |
| 12586   |        | XA205     | 09  |     | XA112     | 27  |      |             | 16B  | 9     |        | TES4AA  | 02       | TES4AO      | 01               | 1    | THI                 | A5          | 05B            |                    |        |
| 13276   |        | XA205     | 10  |     | XA246     | 62  |      |             | 16B  | 9     |        | TIAZB0  | 01       | TIAZB0      | 00               | 1    | THI                 | A6          | 06B            | I ZERO-STATE UNL   |        |
| CONNECTOR (XA205) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |           |     |      |             |      |       |        |         |          |             |                  |      |                     |             |                |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA205  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 97

| RECORD NUMBER                                     | FROM   |           |     | 2 | TO     |           |     | WIRE  |             |      |       | SIGNAL        | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|---|--------|-----------|-----|-------|-------------|------|-------|---------------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |   | PREFIX | CONNECTOR | PIN | SH/CS | MULTI GROUP | CODE | COLOR |               |        |          |      |        |                  |       |                     |                    |                    |        |
| 13268   |        | XA205     | 11  |   | XA108  | 39        |     |       | 16B         | 9    |       | TIAZAA +5V    | 02     | TIAZAO   | 01   | 1      | THI              | A1    |                     | 07A                |                    |        |
| 00376   |        | XA205     | 12  |   |        |           |     |       |             |      |       |               | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 13274   |        | XA205     | 13  |   | XA206  | 34        |     |       | 16B         | 9    |       | TIAZAO SPO    | 05     | TIAZAO   | 00   | 1      | THI              | B4    |                     | 06A                | STATE IO I1*.I2*   |        |
| 07857   |        | XA205     | 14  |   |        |           |     |       |             |      |       |               | 01     |          |      |        | THI              | B4    |                     | 08B                |                    |        |
| 13267   |        | XA205     | 15  |   | XA205  | 11        |     |       | 16B         | 9    |       | TIAZAA GND    | 01     | TIAZBO   | 01   | 1      | THI              | A6    |                     | 07B                |                    |        |
| 02022   |        | XA205     | 16  |   |        |           |     |       |             |      |       |               | 01     |          |      |        | THI              |       |                     | 20B                |                    |        |
| 05222   |        | XA205     | 17  |   | XA205  | 23        |     |       | 16B         | 9    |       | SPI013 SPO    | 22     |          |      |        | THI              | B4    |                     | 09B                |                    |        |
| 07858   |        | XA205     | 18  |   |        |           |     |       |             |      |       |               | 01     |          |      |        | THI              | B3    |                     | 09A                |                    |        |
| 13425   |        | XA205     | 19  |   | XA304  | 19        |     |       | 16B         | 9    |       | TITCAA        | 01     | TITCAA   | 00   | 1      | THI              | B5    |                     | 10B                | RESET I/O TIMER    |        |
| 05221   |        | XA205     | 20  |   | XA205  | 17        |     |       | 16B         | 9    |       | SPI013        | 21     |          |      |        | THI              | B3    |                     | 10A                |                    |        |
| 13428   |        | XA205     | 21  |   |        |           |     |       |             |      |       | TITCAO        | 02     | TITCAA   | 01   | 1      | THI              | B5    |                     | 11B                |                    |        |
| 17323   |        | XA205     | 22  |   |        |           |     |       |             |      |       | UICRTO        | 02     | TICRTA   | 01   | 1      | THI              | B1    |                     | 14A                |                    |        |
| 05223   |        | XA205     | 23  |   | XA207  | 31        |     |       | 16B         | 9    |       | SPI013 TICRTA | 23     |          |      |        | THI              | B2    |                     | 12A                | IOC RESET          |        |
| 13281   |        | XA205     | 24  |   |        |           |     |       |             |      |       |               | 02     |          |      |        | THI              | B1    |                     | 13A                |                    |        |
| 07859   |        | XA205     | 25  |   |        |           |     |       |             |      |       | SPO           | 01     |          |      |        | THI              | B2    |                     | 11A                |                    |        |
| 13461   |        | XA205     | 26  |   | XA206  | 71        |     |       | 16B         | 9    |       | TITRAA        | 02     | TITRAA   | 00   | 1      | THI              | B6    |                     | 12B                | ITR CMD F01        |        |
| 13466   |        | XA205     | 27  |   | XA304  | 34        |     |       | 16B         | 9    |       | TITRAO +5V    | 04     | TITRAA   | 01   | 1      | THI              | B6    |                     | 13B                |                    |        |
| 00377   |        | XA205     | 28  |   |        |           |     |       |             |      |       |               | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 16326   |        | XA205     | 29  |   | XA251  | 18        |     |       | 16B         | 9    |       | TS2100        | 01     | TS210A   | 01   | 1      | THI              | C4    |                     | 15B                |                    |        |
| 16325   |        | XA205     | 30  |   |        |           |     |       |             |      |       | TS210A        | 02     | TS210A   | 00   | 1      | THI              | C4    |                     | 14B                |                    |        |
| 13582   |        | XA205     | 31  |   | XA112  | 55        |     |       | 16B         | 9    |       | TI20CA GND    | 02     | TI20CA   | 00   | 1      | THI              | C5    |                     | 16B                | STATE I2 F/F UNL   |        |
| 02023   |        | XA205     | 32  |   |        |           |     |       |             |      |       |               | 01     |          |      |        | THI              |       |                     | 21B                |                    |        |
| 13575   |        | XA205     | 33  |   | XA113  | 49        |     |       | 16B         | 9    |       | TI20BQ SPO    | 02     | TI20CA   | 01   | 1      | THI              | C5    |                     | 17B                |                    |        |
| 07860   |        | XA205     | 34  |   |        |           |     |       |             |      |       |               | 01     |          |      |        | THI              | C3    |                     | 15A                |                    |        |
| 13572   |        | XA205     | 35  |   | XA304  | 53        |     |       | 16B         | 9    |       | TI20BP        | 06     | TI20C0   | 01   | 1      | THI              | C2    |                     | 18A                |                    |        |
| 05228   |        | XA205     | 36  |   | XA205  | 38        |     |       | 16B         | 9    |       | SPI013        | 28     |          |      |        | THI              | C3    |                     | 16A                |                    |        |
| 13591   |        | XA205     | 37  |   |        |           |     |       |             |      |       | TI20C0        | 05     | TI20C0   | 00   | 1      | THI              | C2    |                     | 17A                | STATE I2 F/F UNL   |        |
| 05229   |        | XA205     | 38  |   | XA205  | 50        |     |       | 16B         | 9    |       | SPI013        | 29     |          |      |        | THI              | C1    |                     | 20A                |                    |        |
| 15615   |        | XA205     | 39  |   | XA248  | 30        |     |       | 16B         | 9    |       | TSA3BA SPO    | 02     | TSA3B0   | 01   | 1      | THI              | C6    |                     | 19B                |                    |        |
| 07861   |        | XA205     | 40  |   |        |           |     |       |             |      |       |               | 01     |          |      |        | THI              | C1    |                     | 19A                |                    |        |
| 13877   |        | XA205     | 41  |   | XA330  | 35        |     |       | 16B         | 9    |       | TKTSB0        | 02     | TKTSBA   | 01   | 1      | THI              | D4    |                     | 23B                |                    |        |
| 15619   |        | XA205     | 42  |   |        |           |     |       |             |      |       | TSA3B0        | 02     | TSA3B0   | 00   | 1      | THI              | C6    |                     | 18B                | SPECIAL ADD.03-0   |        |
| 14159   |        | XA205     | 43  |   |        |           |     |       |             |      |       | TMPEIA GND    | 03     | TMPEIA   | 00   | 1      | THI              | D5    |                     | 24B                | CTS PE INH + BOO   |        |
| 02024   |        | XA205     | 44  |   |        |           |     |       |             |      |       |               | 01     |          |      |        | THI              |       |                     | 27A                |                    |        |
| 21441   |        | XA205     | 44  |   | XA126  | 58        |     | HE    | 1EB         | 0    |       | JDB23G        | 01     |          |      |        | THI              |       |                     | 27A                | C07                |        |
| 21443   |        | XA205     | 44  |   | XA126  | 67        |     | HF    | 1EB         | 0    |       | JDB24G        | 01     |          |      |        | THI              |       |                     | 27A                | C07                |        |
| 14160   |        | XA205     | 45  |   | XA115  | 39        |     |       | 16B         | 9    |       | TMPEIO        | 01     | TMPEIA   | 01   | 1      | THI              | D5    |                     | 25B                |                    |        |
| 13874   |        | XA205     | 46  |   | XA114  | 79        |     |       | 16B         | 9    |       | TKTSBA        | 01     | TKTSBA   | 00   | 1      | THI              | D4    |                     | 22B                | S1.BRST+S3+S20+S   |        |
| 13401   |        | XA205     | 47  |   |        |           |     |       |             |      |       | TINTRA SPO    | 02     | TINTRO   | 01   | 1      | THI              | D2    |                     | 24A                |                    |        |
| 07862   |        | XA205     | 48  |   |        |           |     |       |             |      |       |               | 01     |          |      |        | THI              | D3    |                     | 21A                |                    |        |
| 13404   |        | XA205     | 49  |   |        |           |     |       |             |      |       | TINTRO        | 03     | TINTRO   | 00   | 1      | THI              | D2    |                     | 23A                | INTEROGATE GATE    |        |
| 05230   |        | XA205     | 50  |   | XA206  | 53        |     |       | 16B         | 9    |       | SPI013        | 30     |          |      |        | THI              | D3    |                     | 22A                |                    |        |
| 17399   |        | XA205     | 51  |   | XA202  | 59        |     |       | 16B         | 9    |       | WKMM2A        | 01     | KWMM20   | 01   | 1      | THI              | D6    |                     | 27B                |                    |        |
| 13848   |        | XA205     | 52  |   | XA116  | 22        |     |       | 16B         | 9    |       | TKMBCA        | 01     | TKMBC0   | 01   | 1      | THI              | D1    |                     | 26A                |                    |        |
| 04375   |        | XA205     | 53  |   | XA233  | 59        |     |       | 16B         | 9    |       | KWMM20        | 01     | KWMM20   | 00   | 1      | THI              | D6    |                     | 26B                | MAINT SWITCH MSD   |        |
| 13854   |        | XA205     | 54  |   |        |           |     |       |             |      |       | TKMBC0        | 05     | TKMBC0   | 00   | 1      | THI              | D1    |                     | 25A                | CONT MEM BANK AD   |        |
| 15430   |        | XA205     | 55  |   | XA214  | 43        |     |       | 16B         | 9    |       | TRTCOA        | 02     | TRTC00   | 01   | 1      | THI              | E4    |                     | 29B                |                    |        |
| 15433   |        | XA205     | 56  |   | XA350  | 64        |     |       | 16B         | 9    |       | TRTC00        | 01     | TRTC00   | 00   | 1      | THI              | E4    |                     | 28B                | REAL TIME CLOCK    |        |
| 15704   |        | XA205     | 57  |   |        |           |     |       |             |      |       | TSTR80        | 02     | TSTR80   | 00   | 1      | THI              | E5    |                     | 30B                | BYTE COUNT 1.2-    |        |
| 02025   |        | XA205     | 58  |   |        |           |     |       |             |      |       | GND           | 01     |          |      |        | THI              |       |                     | 40A                |                    |        |
| CONNECTOR (XA205) CONTINUED ON THE NEXT PAGE **** |        |           |     |   |        |           |     |       |             |      |       |               |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA205  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 98

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SFO NO   | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|----------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |          |          |        |        |                  |       |                     |                    |                    |        |
| 21445   |        | XA205     | 58  |        | XA126     | 58  |             | HG   | 1EB   | 0     |        | JDB25G   | 01       |        |        |                  |       |                     | 40A                |                    | C07    |
| 21448   |        | XA205     | 58  |        |           |     |             |      |       |       |        | JDB26G   | 02       |        |        |                  |       |                     | 40A                |                    | C07    |
| 15701   |        | XA205     | 59  |        | XA116     | 80  |             |      | 16B   | 9     |        | TSTR8A   | 01       | TSTR80 | 01     | 1                | THI   | E5                  | 31B                |                    |        |
| 15289   |        | XA205     | 60  |        |           |     |             |      |       |       |        | TREQBA   | 02       | TREQBA | 00     | 1                | THI   | E3                  | 28A                | OR'D REQ REG       |        |
| 13370   |        | XA205     | 61  |        |           |     |             |      |       |       |        | TINF10   | 04       | TINF1A | 01     | 1                | THI   | E2                  | 31A                |                    |        |
| 15293   |        | XA205     | 62  |        |           |     |             |      |       |       |        | TREQB0   | 04       | TREQBA | 01     | 1                | THI   | E3                  | 29A                |                    |        |
| 13365   |        | XA205     | 63  |        | XA346     | 56  |             |      | 16B   | 9     |        | TINF1A   | 01       | TINF1A | 00     | 1                | THI   | E2                  | 30A                | ORED INFO LINES    |        |
| 13374   |        | XA205     | 64  |        |           |     |             |      |       |       |        | TINF10   | 02       | TINF1A | 01     | 1                | THI   | E1                  | 33A                |                    |        |
| 16505   |        | XA205     | 65  |        |           |     |             |      |       |       |        | TS4XF0   | 02       | TS4XFA | 01     | 1                | THI   | E6                  | 33B                |                    |        |
| 13371   |        | XA205     | 66  |        | XA304     | 10  |             |      | 16B   | 9     |        | TINF1A   | 01       | TINF1A | 00     | 1                | THI   | E1                  | 32A                | ORED INFORMATION   |        |
| 02026   |        | XA205     | 67  |        |           |     |             |      |       |       |        | GND      | 01       |        |        |                  |       |                     |                    |                    |        |
| 21452   |        | XA205     | 67  |        | XA127     | 67  |             | HK   | 1EB   | 0     |        | JDB29G   | 01       |        |        |                  |       |                     |                    |                    | C07    |
| 21454   |        | XA205     | 67  |        | XA126     | 67  |             | HM   | 1EB   | 0     |        | JDB30G   | 01       |        |        |                  |       |                     |                    |                    | C07    |
| 21456   |        | XA205     | 67  |        | XA127     | 67  |             | HN   | 1EB   | 0     |        | JDB31G   | 01       |        |        |                  |       |                     |                    |                    | C07    |
| 16502   |        | XA205     | 68  |        | XA346     | 62  |             |      | 16B   | 9     |        | TS4XFA   | 01       | TS4XFA | 00     | 1                | THI   | E6                  | 32B                |                    |        |
| 13513   |        | XA205     | 69  |        |           |     |             |      |       |       |        | TIOSA0   | 02       | TIOSAA | 01     | 1                | THI   | F3                  | 35B                |                    |        |
| 13511   |        | XA205     | 70  |        |           |     |             |      |       |       |        | TIOSAA   | 03       | TIOSAA | 00     | 1                | THI   | F3                  | 34B                | MASTER RESET + B   |        |
| 07863   |        | XA205     | 71  |        |           |     |             |      |       |       |        | SPO      | 00       |        | 00     | 1                | THI   | F2                  | 36B                |                    |        |
| 13519   |        | XA205     | 72  |        |           |     |             |      |       |       |        | TIIC10   | 04       | TIIC10 | 00     | 1                | THI   | F4                  | 34A                | STATE I1.C1*-0     |        |
| 05236   |        | XA205     | 73  |        | XA205     | 75  |             |      | 16B   | 9     |        | SPI013   | 36       |        | 01     | 1                | THI   | F2                  | 37B                |                    |        |
| 13514   |        | XA205     | 74  |        | XA304     | 46  |             |      | 16B   | 9     |        | TIIC1A   | 01       | TIIC10 | 01     | 1                | THI   | F4                  | 35A                |                    |        |
| 05237   |        | XA205     | 75  |        | XA210     | 64  |             |      | 16B   | 9     |        | SPI013   | 37       |        | 01     | 1                | THI   | F6                  | 39A                |                    | C09    |
| 13475   |        | XA205     | 76  |        | XA206     | 42  |             |      | 16B   | 9     |        | TITR1A   | 02       | TITR10 | 01     | 1                | THI   | F5                  | 37A                |                    |        |
| 07864   |        | XA205     | 77  |        |           |     |             |      |       |       |        | SPO      | 01       |        | 00     | 1                | THI   | F6                  | 38A                |                    |        |
| 13478   |        | XA205     | 78  |        |           |     |             |      |       |       |        | TITR10   | 02       | TITR10 | 00     | 1                | THI   | F5                  | 36A                | ITR ADD01          |        |
| 13480   |        | XA205     | 79  |        | XA206     | 40  |             |      | 16B   | 9     |        | TITR2A   | 02       | TITR20 | 01     | 1                | THI   | F1                  | 39B                |                    |        |
| 13483   |        | XA205     | 80  |        |           |     |             |      |       |       |        | TITR20   | 02       | TITR20 | 00     | 1                | THI   | F1                  | 38B                | ITR ADD02          |        |
| 05219   |        | XA206     | 01  |        | XA205     | 06  |             |      | 16B   | 9     |        | SPI013   | 19       | TBR10A | 01     | 1                | TT3   | A2                  | 02B                |                    |        |
| 02027   |        | XA206     | 02  |        |           |     |             |      |       |       |        | GND      | 01       |        |        |                  |       | TT3                 | 01B                |                    |        |
| 16941   |        | XA206     | 03  |        | XA136     | 68  |             |      | 16B   | 9     |        | TXC0B0   | 02       | TBR10A | 01     | 2                | TT3   | A2                  | 02A                |                    |        |
| 13549   |        | XA206     | 04  |        |           |     |             |      |       |       |        | TI1100   | 02       | TI1100 | 00     | 1                | TT3   | A1                  | 04A                | STATE I1-ORED DA   |        |
| 09137   |        | XA206     | 05  |        | XA115     | 68  |             |      | 16B   | 9     |        | TBR10A   | 03       | TBR10A | 01     | 3                | TT3   | A2                  | 03B                |                    |        |
| 15287   |        | XA206     | 06  |        |           |     |             |      |       |       |        | TRDYADX4 | 04       | TI1100 | 01     | 1                | TT3   | A1                  | 05A                |                    |        |
| 09086   |        | XA206     | 07  |        | XA146     | 35  |             |      | 16B   | 9     |        | TBR10A   | 01       | TBR10A | 00     | 1                | TT3   | A2                  | 03A                | BRST * AND IO      |        |
| 13553   |        | XA206     | 08  |        |           |     |             |      |       |       |        | TI112A   | 02       | TI1100 | 01     | 2                | TT3   | A1                  | 06A                |                    |        |
| 14648   |        | XA206     | 09  |        | XA217     | 09  |             |      | 16B   | 9     |        | TPEDMP   | 01       | TKMEB0 | 01     | 1                | TT3   | A3                  | 04B                |                    |        |
| 13551   |        | XA206     | 10  |        |           |     |             |      |       |       |        | TI111A   | 02       | TI1100 | 01     | 3                | TT3   | A1                  | 07A                |                    |        |
| 08414   |        | XA206     | 11  |        | XA305     | 43  |             |      | 16B   | 9     |        | TAVEBP   | 02       | TKMEB0 | 01     | 2                | TT3   | A3                  | 05B                |                    |        |
| 00378   |        | XA206     | 12  |        |           |     |             |      |       |       |        | +5V      | 01       |        |        |                  |       | TT3                 |                    |                    |        |
| 14366   |        | XA206     | 13  |        |           |     |             |      |       |       |        | TMTDWR   | 03       | TKMEB0 | 01     | 3                | TT3   | A3                  | 06B                |                    |        |
| 14336   |        | XA206     | 14  |        | XA325     | 52  |             |      | 16B   | 9     |        | TMS3BQ   | 05       | TMDSAA | 01     | 1                | TT3   | B2                  | 09A                |                    |        |
| 13855   |        | XA206     | 15  |        | XA116     | 24  |             |      | 16B   | 9     |        | TKMEB0   | 01       | TKMEB0 | 00     | 1                | TT3   | A3                  | 07B                | MEM ERROR PE O     |        |
| 02028   |        | XA206     | 16  |        |           |     |             |      |       |       |        | GND      | 01       |        |        |                  |       | TT3                 | 21B                |                    |        |
| 14579   |        | XA206     | 17  |        | XA112     | 60  |             |      | 16B   | 9     |        | TM2M6A   | 01       | TMDSAA | 01     | 2                | TT3   | B2                  | 08B                |                    |        |
| 14498   |        | XA206     | 18  |        | XA245     | 26  |             |      | 16B   | 9     |        | TM02C0   | 02       | TMDSAA | 01     | 3                | TT3   | B2                  | 10A                |                    |        |
| 14106   |        | XA206     | 19  |        | XA151     | 29  |             |      | 16B   | 9     |        | TMDSAA   | 00       | TMDSAA | 00     | 1                | TT3   | B2                  | 09B                | DATA STROBE .M2.   |        |
| 15705   |        | XA206     | 20  |        | XA113     | 53  |             |      | 16B   | 9     |        | TSTR9A   | 01       | TSTR9A | 00     | 1                | TT3   | B1                  | 11A                | I1+I2+I3           |        |
| 14692   |        | XA206     | 21  |        | XA113     | 76  |             |      | 16B   | 9     |        | TPERBP   | 01       | TMPB2A | 01     | 1                | TT3   | B3                  | 10B                |                    |        |
| CONNECTOR XA206 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |          |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA206  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 99

| RECORD NUMBER                                     | FROM   |           |     | TO  |       |     | WIRE |    |  |  | MULTI GROUP | CODE | COLOR | IDENT  | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |     | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|-------|-----|------|----|--|--|-------------|------|-------|--------|--------|--------|----------|------|--------|------------------|-------|---------------------|-------------|-----|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | PIN   | PIN | AND  | OR |  |  |             |      |       |        |        |        |          |      |        |                  |       |                     |             |     |                    |        |
| 16952   |        | XA206     | 22  |     | XA116 | 78  |      |    |  |  | 16B         | 9    |       | TXC1BQ | 01     | TSTR9A | 01       | 1    | TT3    | B1               |       |                     |             | 12A |                    |        |
| 17265   |        | XA206     | 23  |     | XA112 | 76  |      |    |  |  | 16B         | 9    |       | T3100A | 02     | TMPB2A | 01       | 2    | TT3    | B3               |       |                     |             | 11B |                    |        |
| 13614   |        | XA206     | 24  |     |       |     |      |    |  |  |             |      |       | TI23E0 | 02     | TSTR9A | 01       | 2    | TT3    | B1               |       |                     |             | 13A |                    |        |
| 17083   |        | XA206     | 25  |     |       |     |      |    |  |  |             |      |       | T0031A | 04     | TMPB2A | 01       | 3    | TT3    | B3               |       |                     |             | 12B | SIGNAL RETURN      |        |
| 16988   |        | XA206     | 26  |     | XA305 | 38  |      |    |  |  | 16B         | 9    |       | TXC2BP | 09     | TSTR9A | 01       | 3    | TT3    | B1               |       |                     |             | 14A |                    |        |
| 14155   |        | XA206     | 27  |     | XA115 | 29  |      |    |  |  | 16B         | 9    |       | TMPB2A | 01     | TMPB2A | 00       | 1    | TT3    | B3               |       |                     |             | 13B | PARITY D REG TO    |        |
| 00379   |        | XA206     | 28  |     |       |     |      |    |  |  |             |      |       | +5V    | 01     |        |          |      | TT3    |                  |       |                     |             |     |                    |        |
| 21070   |        | XA206     | 28  |     |       |     |      |    |  |  |             |      |       | JSNV2B | 02     |        |          |      | TT3    |                  |       |                     |             |     |                    |        |
| 16398   |        | XA206     | 29  |     | XA249 | 19  |      |    |  |  | 16B         | 9    |       | TS24BQ | 02     | TI212A | 01       | 1    | TT3    | C2               |       |                     |             | 14B |                    |        |
| 17036   |        | XA206     | 30  |     |       |     |      |    |  |  |             |      |       | TOFRAO | 08     | TI212A | 01       | 2    | TT3    | C2               |       |                     |             | 15A |                    |        |
| 13598   |        | XA206     | 31  |     | XA305 | 25  |      |    |  |  | 16B         | 9    |       | TI212A | 02     | TI212A | 00       | 1    | TT3    | C2               |       |                     |             | 15B | STATE S25.0FR      |        |
| 02029   |        | XA206     | 32  |     |       |     |      |    |  |  |             |      |       | GND    | 01     |        |          |      | TT3    |                  |       |                     |             | 27A |                    |        |
| 09745   |        | XA206     | 33  |     | XA238 | 61  |      |    |  |  | 16B         | 9    |       | TCMDBQ | 04     | TI213A | 01       | 1    | TT3    | C3               |       |                     |             | 16B |                    |        |
| 13275   |        | XA206     | 34  |     |       |     |      |    |  |  |             |      |       | TIAZA0 | 06     | TI212A | 01       | 3    | TT3    | C2               |       |                     |             | 16A |                    |        |
| 12534   |        | XA206     | 35  |     | XA238 | 55  |      |    |  |  | 16B         | 9    |       | TENBBQ | 04     | TI213A | 01       | 2    | TT3    | C3               |       |                     |             | 17B |                    |        |
| 13470   |        | XA206     | 36  |     | XA346 | 41  |      |    |  |  | 16B         | 9    |       | TIIRCO | 01     | TIIRCO | 00       | 1    | TT3    | C1               |       |                     |             | 17A | ITR(IND+ADD01+AD   |        |
| 17019   |        | XA206     | 37  |     | XA133 | 77  |      |    |  |  | 16B         | 9    |       | TXC7B0 | 01     | TI213A | 01       | 3    | TT3    | C3               |       |                     |             | 18B |                    |        |
| 13473   |        | XA206     | 38  |     |       |     |      |    |  |  |             |      |       | TIIR1A | 02     | TIIRCO | 01       | 1    | TT3    | C1               |       |                     |             | 18A |                    |        |
| 13601   |        | XA206     | 39  |     |       |     |      |    |  |  |             |      |       | TI213A | 02     | TI213A | 00       | 1    | TT3    | C3               |       |                     |             | 19B | STATE S25.DEV.ID   |        |
| 13481   |        | XA206     | 40  |     |       |     |      |    |  |  |             |      |       | TIIR2A | 03     | TIIRCO | 01       | 2    | TT3    | C1               |       |                     |             | 19A |                    |        |
| 14437   |        | XA206     | 41  |     | XA305 | 34  |      |    |  |  | 16B         | 9    |       | TH00BQ | 01     | TSTB2A | 01       | 1    | TT3    | D2               |       |                     |             | 22B |                    |        |
| 13476   |        | XA206     | 42  |     |       |     |      |    |  |  |             |      |       | TIIR1A | 03     | TIIRCO | 01       | 3    | TT3    | C1               |       |                     |             | 20A |                    |        |
| 15685   |        | XA206     | 43  |     | XA122 | 54  |      |    |  |  | 16B         | 9    |       | TSTB2A | 01     | TSTB2A | 00       | 1    | TT3    | D2               |       |                     |             | 23B | ERROR IN BURST S   |        |
| 02030   |        | XA206     | 44  |     |       |     |      |    |  |  |             |      |       | GND    | 01     |        |          |      | TT3    |                  |       |                     |             | 40A |                    |        |
| 16731   |        | XA206     | 45  |     |       |     |      |    |  |  |             |      |       | TU0820 | 02     | TD082A | 01       | 1    | TT3    | D3               |       |                     |             | 24B |                    |        |
| 09145   |        | XA206     | 46  |     | XA108 | 01  |      |    |  |  | 16B         | 9    |       | TBRSU0 | 02     | TSTB2A | 01       | 2    | TT3    | D2               |       |                     |             | 21A |                    |        |
| 16728   |        | XA206     | 47  |     | XA327 | 63  |      |    |  |  | 16B         | 9    |       | TU081A | 01     | TD082A | 01       | 2    | TT3    | D3               |       |                     |             | 25B |                    |        |
| 16162   |        | XA206     | 48  |     | XA346 | 18  |      |    |  |  | 16B         | 9    |       | TS15BQ | 01     | TSTB2A | 01       | 3    | TT3    | D2               |       |                     |             | 22A |                    |        |
| 08905   |        | XA206     | 49  |     |       |     |      |    |  |  |             |      |       | TBLDAO | 07     | TD082A | 01       | 3    | TT3    | D3               |       |                     |             | 26B |                    |        |
| 15627   |        | XA206     | 50  |     | XA113 | 68  |      |    |  |  | 16B         | 9    |       | TSN110 | 01     | TSN110 | 00       | 1    | TT3    | D1               |       |                     |             | 23A | SET MEM SYNC 1     |        |
| 11617   |        | XA206     | 51  |     | XA228 | 70  |      |    |  |  | 16B         | 9    |       | TD082A | 01     | TD082A | 00       | 1    | TT3    | D3               |       |                     |             | 27B | UPDATE TC08 TO T   |        |
| 14043   |        | XA206     | 52  |     |       |     |      |    |  |  |             |      |       | TMC13A | 02     | TSN110 | 01       | 1    | TT3    | D1               |       |                     |             | 24A |                    |        |
| 05231   |        | XA206     | 53  |     | XA206 | 70  |      |    |  |  | 16B         | 9    |       | SPI013 | 31     |        | 01       | 1    | TT3    | E2               |       |                     |             | 28B |                    |        |
| 14040   |        | XA206     | 54  |     | XA145 | 55  |      |    |  |  | 16B         | 9    |       | TMC12A | 01     | TSN110 | 01       | 2    | TT3    | D1               |       |                     |             | 25A |                    |        |
| 07865   |        | XA206     | 55  |     |       |     |      |    |  |  |             |      |       | SPO    | 01     |        | 00       | 1    | TT3    | E2               |       |                     |             | 29B |                    |        |
| 15622   |        | XA206     | 56  |     | XA113 | 59  |      |    |  |  | 16B         | 9    |       | TSN1BP | 01     | TSN110 | 01       | 3    | TT3    | D1               |       |                     |             | 26A |                    |        |
| 15618   |        | XA206     | 57  |     | XA205 | 42  |      |    |  |  | 16B         | 9    |       | TSA3B0 | 01     | TDEV3A | 01       | 1    | TT3    | E3               |       |                     |             | 30B |                    |        |
| 02031   |        | XA206     | 58  |     |       |     |      |    |  |  |             |      |       | GND    | 01     |        |          |      | TT3    |                  |       |                     |             | 40B |                    |        |
| 10701   |        | XA206     | 59  |     |       |     |      |    |  |  |             |      |       | TDECA0 | 03     | TDEV3A | 01       | 2    | TT3    | E3               |       |                     |             | 31B |                    |        |
| 05268   |        | XA206     | 60  |     | XA210 | 61  |      |    |  |  | 16B         | 9    |       | SPI014 | 31     |        | 01       | 2    | TT3    | E2               |       |                     |             | 28A |                    |        |
| 16460   |        | XA206     | 61  |     |       |     |      |    |  |  |             |      |       | TS28BQ | 08     | TDEV3A | 01       | 3    | TT3    | E3               |       |                     |             | 32B |                    |        |
| 04935   |        | XA206     | 62  |     | XA216 | 60  |      |    |  |  | 16B         | 9    |       | SPI003 | 04     |        | 01       | 3    | TT3    | E2               |       |                     |             | 29A |                    |        |
| 10703   |        | XA206     | 63  |     |       |     |      |    |  |  |             |      |       | TDEV3A | 02     | TDEV3A | 00       | 1    | TT3    | E3               |       |                     |             | 33B |                    |        |
| 07866   |        | XA206     | 64  |     |       |     |      |    |  |  |             |      |       | SPO    | 01     |        | 00       | 1    | TT3    | E1               |       |                     |             | 30A |                    |        |
| 04933   |        | XA206     | 65  |     |       |     |      |    |  |  | 16B         | 9    |       | TINDBQ | 07     | TINIRA | 01       | 1    | TT3    | F2               |       |                     |             | 34B |                    | F01    |
| 05265   |        | XA206     | 66  |     | XA206 | 60  |      |    |  |  | 16B         | 9    |       | SPI014 | 28     |        | 01       | 1    | TT3    | E1               |       |                     |             | 31A |                    | F01    |
| 02032   |        | XA206     | 67  |     |       |     |      |    |  |  |             |      |       | GND    | 01     |        |          |      | TT3    |                  |       |                     |             |     |                    |        |
| 04934   |        | XA206     | 68  |     | XA206 | 62  |      |    |  |  | 16B         | 9    |       | SPI003 | 03     |        | 01       | 2    | TT3    | E1               |       |                     |             | 32A |                    |        |
| 16017   |        | XA206     | 69  |     |       |     |      |    |  |  |             |      |       | TS1T30 | 03     | TRCR1A | 01       | 1    | TT3    | F3               |       |                     |             | 35A |                    |        |
| 05232   |        | XA206     | 70  |     | XA206 | 78  |      |    |  |  | 16B         | 9    |       | SPI013 | 32     |        | 01       | 3    | TT3    | E1               |       |                     |             | 33A |                    |        |
| CONNECTOR (XA206) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |       |     |      |    |  |  |             |      |       |        |        |        |          |      |        |                  |       |                     |             |     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA206  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 100

| RECORD NUMBER                                   | FROM   |           |     |         | TO     |           |     |         | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GRP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|---------|--------|-----------|-----|---------|-------------|------|-------|-------|----------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE NO | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |     |                     |                    |                    |        |
| 05235   |        | XA206     | 71  |         |        |           |     |         |             | 16B  | 9     |       | TTTAA    | 03     | TINIRA   | 01   | 2      | TT3              | F2  |                     | 36A                | F01                |        |
| 05266   |        | XA206     | 72  |         |        |           |     |         |             | 16B  | 9     |       | TS13BP   | 10     | TINIRA   | 01   | 3      | TT3              | F2  |                     | 34A                | F01                |        |
| 07867   |        | XA206     | 73  |         |        |           |     |         |             |      |       |       | TTTAA    | 02     | TTTAA    | 00   | 1      | TT3              | F1  |                     | 36B                | C06                |        |
| 07868   |        | XA206     | 74  |         |        |           |     |         |             |      |       |       | TINIRA   | 02     | TINIRA   | 00   | 1      | TT3              | F2  |                     | 35B                | F01                |        |
| 05267   |        | XA206     | 75  |         |        |           |     |         |             |      |       |       | TS24BP   | 07     | TTTAA    | 01   | 1      | TT3              | F1  |                     | 37B                | C06                |        |
| 13392   |        | XA206     | 76  |         | XA304  | 78        |     |         |             | 16B  | 9     |       | TINTADX4 | 00C    | TRCR1A   | 01   | 2      | TT3              | F3  |                     | 37A                |                    |        |
| 05234   |        | XA206     | 77  |         |        |           |     |         |             |      |       |       | TS25BP   | 02     | TTTAA    | 01   | 2      | TT3              | F1  |                     | 38B                | C06                |        |
| 05233   |        | XA206     | 78  |         | XA205  | 73        |     |         |             | 16B  | 9     |       | SPI013   | 33     | TRCR1A   | 01   | 3      | TT3              | F3  |                     | 38A                | F01                |        |
| 04932   |        | XA206     | 79  |         | XA206  | 65        |     |         |             | 16B  | 9     |       | TINDBQ   | 062    | TTTAA    | 01   | 3      | TT3              | F1  |                     | 39B                | F01                |        |
| 15236   |        | XA206     | 80  |         |        |           |     |         |             |      |       |       | TRCR1A   | 11     | TRCR1A   | 00   | 1      | TT3              | F3  |                     | 39A                |                    |        |
| 13990   |        | XA207     | 01  |         |        |           |     |         |             |      |       |       | TK260A   | 02     | TK260A   | 00   | 1      | TQ2              | A2  |                     | 02B                | TA TO KM DEV ADD   |        |
| 02033   |        | XA207     | 02  |         |        |           |     |         |             |      |       |       | GND      | 01     |          |      |        | TQ2              |     |                     | 01A                |                    |        |
| 13840   |        | XA207     | 03  |         | XA207  | 08        |     |         |             | 16B  | 9     |       | TKDAA0   | 05     | TK270A   | 01   | 1      | TQ2              | A3  |                     | 02A                |                    |        |
| 13842   |        | XA207     | 04  |         | XA116  | 14        |     |         |             | 16B  | 9     |       | TKDAA0   | 07     | TK260A   | 01   | 1      | TQ2              | A2  |                     | 04A                |                    |        |
| 08567   |        | XA207     | 05  |         | XA109  | 07        |     |         |             | 16B  | 9     |       | TA01BQ   | 06     | TK260A   | 01   | 2      | TQ2              | A2  |                     | 03B                |                    |        |
| 13987   |        | XA207     | 06  |         | XA306  | 47        |     |         |             | 16B  | 9     |       | TK250A   | 01     | TK250A   | 00   | 1      | TQ2              | A1  |                     | 05A                | TA TO KM DEV ADD   |        |
| 08592   |        | XA207     | 07  |         | XA109  | 13        |     |         |             | 16B  | 9     |       | TA02BQ   | 06     | TK270A   | 01   | 2      | TQ2              | A3  |                     | 03A                |                    |        |
| 13841   |        | XA207     | 08  |         | XA207  | 04        |     |         |             | 16B  | 9     |       | TKDAA0   | 06     | TK250A   | 01   | 1      | TQ2              | A1  |                     | 06A                |                    |        |
| 13991   |        | XA207     | 09  |         | XA306  | 60        |     |         |             | 16B  | 9     |       | TK270A   | 01     | TK270A   | 00   | 1      | TQ2              | A3  |                     | 04B                | TA TO KM DEV ADD   |        |
| 08540   |        | XA207     | 10  |         | XA415  | 23        |     |         |             | 16B  | 9     |       | TA00BQ   | 02     | TK250A   | 01   | 2      | TQ2              | A1  |                     | 07A                |                    |        |
| 08613   |        | XA207     | 11  |         | XA441  | 19        |     |         |             | 16B  | 9     |       | TA03BQ   | 02     | TK280A   | 01   | 1      | TQ2              | A4  |                     | 05B                |                    |        |
| 00380   |        | XA207     | 12  |         |        |           |     |         |             |      |       |       | +5V      | 01     |          |      |        | TQ2              |     |                     |                    |                    |        |
| 13839   |        | XA207     | 13  |         | XA207  | 03        |     |         |             | 16B  | 9     |       | TKDAA0   | 04     | TK280A   | 01   | 2      | TQ2              | A4  |                     | 06B                |                    |        |
| 14005   |        | XA207     | 14  |         |        |           |     |         |             |      |       |       | TK300A   | 02     | TK300A   | 00   | 1      | TQ2              | B2  |                     | 09A                | TA TO KM DEV ADD   |        |
| 13994   |        | XA207     | 15  |         |        |           |     |         |             |      |       |       | TK280A   | 02     | TK280A   | 00   | 1      | TQ2              | A4  |                     | 07B                | TA TO KM DEV ADD   |        |
| 02034   |        | XA207     | 16  |         |        |           |     |         |             |      |       |       | GND      | 01     |          |      |        | TQ2              |     |                     | 01B                |                    |        |
| 08683   |        | XA207     | 17  |         | XA434  | 77        |     |         |             | 16B  | 9     |       | TA06BQ   | 02     | TK310A   | 01   | 1      | TQ2              | B3  |                     | 08B                |                    |        |
| 13837   |        | XA207     | 18  |         | XA207  | 19        |     |         |             | 16B  | 9     |       | TKDAA0   | 02     | TK300A   | 01   | 1      | TQ2              | B2  |                     | 10A                |                    |        |
| 13838   |        | XA207     | 19  |         | XA207  | 13        |     |         |             | 16B  | 9     |       | TKDAA0   | 03     | TK310A   | 01   | 2      | TQ2              | B3  |                     | 09B                |                    |        |
| 08666   |        | XA207     | 20  |         |        |           |     |         |             |      |       |       | TA05BQ   | 07     | TK300A   | 01   | 2      | TQ2              | B2  |                     | 11A                |                    |        |
| 14006   |        | XA207     | 21  |         | XA306  | 69        |     |         |             | 16B  | 9     |       | TK310A   | 01     | TK310A   | 00   | 1      | TQ2              | B3  |                     | 10B                | TA TO KM DEV ADD   |        |
| 13995   |        | XA207     | 22  |         | XA306  | 77        |     |         |             | 16B  | 9     |       | TK290A   | 01     | TK290A   | 00   | 1      | TQ2              | B1  |                     | 12A                | TA TO KM DEV ADD   |        |
| 08390   |        | XA207     | 23  |         | XA213  | 06        |     |         |             | 16B  | 9     |       | TADABQ   | 01     | TMDCAA   | 01   | 1      | TQ2              | B4  |                     | 11B                |                    |        |
| 08637   |        | XA207     | 24  |         | XA434  | 79        |     |         |             | 16B  | 9     |       | TA04BQ   | 02     | TK290A   | 01   | 1      | TQ2              | B1  |                     | 13A                |                    |        |
| 20216   |        | XA207     | 25  |         | XA213  | 64        |     |         |             | 16B  | 9     |       | YSN2CTX  | 03     | TMDCAA   | 01   | 2      | TQ2              | B4  |                     | 12B                |                    |        |
| 13836   |        | XA207     | 26  |         | XA207  | 18        |     |         |             | 16B  | 9     |       | TKDAA0   | 01     | TK290A   | 01   | 2      | TQ2              | B1  |                     | 14A                |                    |        |
| 14066   |        | XA207     | 27  |         | XA407  | 31        |     |         |             | 16B  | 9     |       | TMDCAA   | 01     | TMDCAA   | 00   | 1      | TQ2              | B4  |                     | 13B                | MEMORY ADD ACK.S   |        |
| 00381   |        | XA207     | 28  |         |        |           |     |         |             |      |       |       | +5V      | 01     |          |      |        | TQ2              |     |                     |                    |                    |        |
| 09165   |        | XA207     | 29  |         | XA113  | 09        |     |         |             | 16B  | 9     |       | TBST1P   | 02     | TBST10   | 01   | 1      | TQ2              | C3  |                     | 14B                |                    |        |
| 07869   |        | XA207     | 30  |         |        |           |     |         |             |      |       |       | SPO      | 01     |          |      |        | TQ2              | C2  |                     | 15A                |                    |        |
| 05224   |        | XA207     | 31  |         | XA207  | 42        |     |         |             | 16B  | 9     |       | SPI013   | 24     | TBST10   | 01   | 2      | TQ2              | C3  |                     | 15B                |                    |        |
| 02035   |        | XA207     | 32  |         |        |           |     |         |             |      |       |       | GND      | 01     |          |      |        | TQ2              |     |                     | 20B                |                    |        |
| 09180   |        | XA207     | 33  |         | XA134  | 79        |     |         |             | 16B  | 9     |       | TBST10   | 02     | TBST10   | 00   | 1      | TQ2              | C3  |                     | 16B                | BOOTSTRAP 1 OVER   |        |
| 05260   |        | XA207     | 34  |         | XA207  | 40        |     |         |             | 16B  | 9     |       | SPI014   | 23     |          | 01   | 1      | TQ2              | C2  |                     | 16A                |                    |        |
| 09200   |        | XA207     | 35  |         | XA113  | 23        |     |         |             | 16B  | 9     |       | TBST2P   | 02     | TBST20   | 01   | 1      | TQ2              | C4  |                     | 17B                |                    |        |
| 05226   |        | XA207     | 36  |         | XA207  | 37        |     |         |             | 16B  | 9     |       | SPI013   | 26     |          | 01   | 2      | TQ2              | C2  |                     | 17A                |                    |        |
| 05227   |        | XA207     | 37  |         | XA205  | 36        |     |         |             | 16B  | 9     |       | SPI013   | 27     | TBST20   | 01   | 2      | TQ2              | C4  |                     | 18B                |                    |        |
| 07870   |        | XA207     | 38  |         |        |           |     |         |             |      |       |       | SPO      | 01     |          | 00   | 1      | TQ2              | C1  |                     | 18A                |                    |        |
| CONNECTOR XA207 CONTINUED ON THE NEXT PAGE **** |        |           |     |         |        |           |     |         |             |      |       |       |          |        |          |      |        |                  |     |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA207  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 101

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |  |  |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|---------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|--|--|
|               | PREFIX | CONNECTOR | PIN                             | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |      |                  |       |                     |                    |                    |        |  |  |
| 09213         |        | XA207     | 39                              |      | XA108  | 08        |     |      | 16B         | 9    |       |       | TBST20  | 01     | TBST20   | 00   | 1    | TQ2              | C4    |                     | 19B                | BOOTSTRAP 2 -0 U   |        |  |  |
| 05261         |        | XA207     | 40                              |      | XA208  | 56        |     |      | 16B         | 9    |       |       | SPI014  | 24     |          | 01   | 1    | TQ2              | C1    |                     | 19A                |                    |        |  |  |
| 16529         |        | XA207     | 41                              |      |        |           |     |      |             |      |       |       | TS77AA  | 07     | TBT21A   | 01   | 1    | TQ2              | D3    |                     | 22B                | RESET BOOTSTRAP    |        |  |  |
| 05225         |        | XA207     | 42                              |      | XA207  | 36        |     |      | 16B         | 9    |       |       | SPI013  | 25     |          | 01   | 2    | TQ2              | C1    |                     | 20A                |                    |        |  |  |
| 09207         |        | XA207     | 43                              |      | XA113  | 25        |     |      | 16B         | 9    |       |       | TBST2Q  | 02     | TBT21A   | 01   | 2    | TQ2              | D3    |                     | 23B                |                    |        |  |  |
| 02036         |        | XA207     | 44                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |      | TQ2              |       |                     | 21B                |                    |        |  |  |
| 09273         |        | XA207     | 45                              |      | XA109  | 68        |     |      | 16B         | 9    |       |       | TBT21A  | 01     | TBT21A   | 00   | 1    | TQ2              | D3    |                     | 24B                | BOOTSTRAP2 ON LE   |        |  |  |
| 09260         |        | XA207     | 46                              |      | XA112  | 07        |     |      | 16B         | 9    |       |       | TBT11A  | 01     | TBT11A   | 00   | 1    | TQ2              | D2    |                     | 21A                | BOOTSTRAP1 NOT B   |        |  |  |
| 03795         |        | XA207     | 47                              |      | XA203  | 21        |     |      | 16B         | 9    |       |       | JQMT0D4 | 01     | KMET00   | 01   | 1    | TQ2              | D4    |                     | 25B                | CPU MEMORY TIME-   |        |  |  |
| 09269         |        | XA207     | 48                              |      | XA115  | 75        |     |      | 16B         | 9    |       |       | TBT13A  | 01     | TBT11A   | 01   | 1    | TQ2              | D2    |                     | 22A                |                    |        |  |  |
| 05275         |        | XA207     | 49                              |      | XA208  | 36        |     |      | 16B         | 9    |       |       | SPI015  | 06     | KMET00   | 01   | 2    | TQ2              | D4    |                     | 26B                |                    | 805    |  |  |
| 09176         |        | XA207     | 50                              |      | XA213  | 61        |     |      | 16B         | 9    |       |       | TBST1Q  | 04     | TBT11A   | 01   | 2    | TQ2              | D2    |                     | 23A                |                    |        |  |  |
| 04111         |        | XA207     | 51                              |      | XA118  | 11        |     |      | 16B         | 9    |       |       | KMET00  | 01     | KMET00   | 00   | 1    | TQ2              | D4    |                     | 27B                | MEMORY TIME OUT    |        |  |  |
| 09197         |        | XA207     | 52                              |      | XA304  | 68        |     |      | 16B         | 9    |       |       | TBST2A  | 10     | TBST2A   | 00   | 1    | TQ2              | D1    |                     | 24A                | BOOTSTRAP 2 -A U   |        |  |  |
| 14186         |        | XA207     | 53                              |      | XA108  | 13        |     |      | 16B         | 9    |       |       | TMRUA4  | 01     | TMR770   | 01   | 1    | TQ2              | E3    |                     | 28B                |                    |        |  |  |
| 05274         |        | XA207     | 54                              |      | XA207  | 49        |     |      | 16B         | 9    |       |       | SPI015  | 05     | TBST2A   | 01   | 1    | TQ2              | D1    |                     | 25A                |                    |        |  |  |
| 16528         |        | XA207     | 55                              |      | XA207  | 41        |     |      | 16B         | 9    |       |       | TS77AA  | 06     | TMR770   | 01   | 2    | TQ2              | E3    |                     | 29B                |                    |        |  |  |
| 09206         |        | XA207     | 56                              |      | XA207  | 43        |     |      | 16B         | 9    |       |       | TBST2Q  | 01     | TBST2A   | 01   | 2    | TQ2              | D1    |                     | 26A                |                    |        |  |  |
| 14322         |        | XA207     | 57                              |      |        |           |     |      |             |      |       |       | TMR770  | 02     | TMR770   | 00   | 1    | TQ2              | E3    |                     | 30B                | S77 + MASTER RES   |        |  |  |
| 02037         |        | XA207     | 58                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |      | TQ2              |       |                     | 27A                |                    |        |  |  |
| 14653         |        | XA207     | 59                              |      |        |           |     |      |             |      |       |       | TPEDMQ  | 03     | TPED2A   | 01   | 1    | TQ2              | E4    |                     | 31B                |                    |        |  |  |
| 07871         |        | XA207     | 60                              |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1    | TQ2              | E2    |                     | 28A                |                    |        |  |  |
| 15737         |        | XA207     | 61                              |      | XA207  | 65        |     |      | 16B         | 9    |       |       | TS00BP  | 02     | TPED2A   | 01   | 2    | TQ2              | E4    |                     | 32B                |                    |        |  |  |
| 05271         |        | XA207     | 62                              |      | XA210  | 59        |     |      | 16B         | 9    |       |       | SPI015  | 02     |          | 01   | 1    | TQ2              | E2    |                     | 29A                |                    |        |  |  |
| 14656         |        | XA207     | 63                              |      | XA208  | 73        |     |      | 16B         | 9    |       |       | TPED2A  | 01     | TPED2A   | 00   | 1    | TQ2              | E4    |                     | 33B                | PE FF SET LEAVE    |        |  |  |
| 05263         |        | XA207     | 64                              |      | XA207  | 68        |     |      | 16B         | 9    |       |       | SPI014  | 26     |          | 01   | 2    | TQ2              | E2    |                     | 30A                |                    |        |  |  |
| 15738         |        | XA207     | 65                              |      | XA309  | 10        |     |      | 16B         | 9    |       |       | TS00BP  | 03     | TPEB2A   | 01   | 1    | TQ2              | F3    |                     | 34B                |                    |        |  |  |
| 07872         |        | XA207     | 66                              |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1    | TQ2              | E1    |                     | 31A                |                    |        |  |  |
| 02038         |        | XA207     | 67                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |      | TQ2              |       |                     | 40A                |                    |        |  |  |
| 05264         |        | XA207     | 68                              |      | XA206  | 66        |     |      | 16B         | 9    |       |       | SPI014  | 27     |          | 01   | 1    | TQ2              | E1    |                     | 32A                |                    |        |  |  |
| 14637         |        | XA207     | 69                              |      | XA208  | 47        |     |      | 16B         | 9    |       |       | TPEB2A  | 01     | TPEB2A   | 00   | 1    | TQ2              | F3    |                     | 35A                | PE FLIP FLOP SET   |        |  |  |
| 05270         |        | XA207     | 70                              |      | XA207  | 62        |     |      | 16B         | 9    |       |       | SPI015  | 01     |          | 01   | 2    | TQ2              | E1    |                     | 33A                |                    |        |  |  |
| 16155         |        | XA207     | 71                              |      | XA346  | 22        |     |      | 16B         | 9    |       |       | TS1460  | 01     | TPED1A   | 01   | 1    | TQ2              | F2    |                     | 36A                |                    |        |  |  |
| 14655         |        | XA207     | 72                              |      |        |           |     |      |             |      |       |       | TPED1A  | 02     | TPED1A   | 03   | 1    | TQ2              | F2    |                     | 34A                | DATA PE SET FF     |        |  |  |
| 14669         |        | XA207     | 73                              |      | XA208  | 46        |     |      | 16B         | 9    |       |       | TPEM10  | 01     | TPED1A   | 01   | 2    | TQ2              | F2    |                     | 36B                |                    |        |  |  |
| 14632         |        | XA207     | 74                              |      | XA317  | 78        |     |      | 16B         | 9    |       |       | TPEBMQ  | 01     | TPEB2A   | 01   | 2    | TQ2              | F3    |                     | 35B                |                    |        |  |  |
| 11060         |        | XA207     | 75                              |      | XA445  | 18        |     |      | 16B         | 9    |       |       | TD153A  | 01     | TDL53A   | 00   | 1    | TQ2              | F1    |                     | 37B                | TE05 TO DATA LIN   |        |  |  |
| 04352         |        | XA207     | 76                              |      | XA208  | 39        |     |      | 16B         | 9    |       |       | KSWSTS  | 03     | KSRSTA   | 01   | 1    | TQ2              | F4    |                     | 37A                |                    |        |  |  |
| 12686         |        | XA207     | 77                              |      |        |           |     |      |             |      |       |       | TE05BQ  | 05     | TDL53A   | 01   | 1    | TQ2              | F1    |                     | 38B                |                    |        |  |  |
| 04685         |        | XA207     | 78                              |      |        |           |     |      |             |      |       |       | RSWRQQ  | 03     | KSRSTA   | 01   | 2    | TQ2              | F4    |                     | 38A                |                    |        |  |  |
| 13611         |        | XA207     | 79                              |      | XA304  | 57        |     |      | 16B         | 9    |       |       | TI23B0  | 08     | TDL53A   | 01   | 2    | TQ2              | F1    |                     | 39B                |                    |        |  |  |
| 04333         |        | XA207     | 80                              |      | XA306  | 11        |     |      | 16B         | 9    |       |       | KSRSTA  | 01     | KSRSTA   | 00   | 1    | TQ2              | F4    |                     | 39A                | (START TEST SWI    |        |  |  |
| 10976         |        | XA208     | 01                              |      |        |           |     |      |             |      |       |       | TDLPAA  | 02     | TDLPAA   | 00   | 1    | TQ2              | A2    |                     | 02B                | PARITY TO PARITY   |        |  |  |
| 02039         |        | XA208     | 02                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |      | TQ2              |       |                     | 01A                |                    |        |  |  |
| 11087         |        | XA208     | 03                              |      |        |           |     |      |             |      |       |       | TDPO2A  | 02     | TD2980   | 01   | 1    | TQ2              | A3    |                     | 02A                |                    |        |  |  |
| 14912         |        | XA208     | 04                              |      |        |           |     |      |             |      |       |       | TP007A  | 02     | TDLPAA   | 01   | 1    | TQ2              | A2    |                     | 04A                |                    |        |  |  |
| 11277         |        | XA208     | 05                              |      |        |           |     |      |             |      |       |       | TDOPAA  | 02     | TDLPAA   | 01   | 2    | TQ2              | A2    |                     | 03B                |                    |        |  |  |
| 11819         |        | XA208     | 06                              |      | XA222  | 25        |     |      | 16B         | 9    |       |       | TD147A  | 01     | TD147A   | 00   | 1    | TQ2              | A1    |                     | 05A                | CA FIELD TO TO F   |        |  |  |
| CONNECTOR     |        | XA208     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |         |        |          |      |      |                  |       |                     |                    |                    |        |  |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA208  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 102

| RECORD NUMBER                                     | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       |       | SFC INST. MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PCB | PREFIX | CONNECTOR | PIN | PCB | MULTI GROUP | CODE | COLOR | IDENT |                |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 11090   | XA208  | 07        |     |     | XA325  | 57        |     |     |             | 16B  | 9     |       | TOP10A         | 01     | TD2980 | 01       | 2    | TQ2    | A3               |       | 03A                 |                    |                    |        |
| 10294   | XA208  | 08        |     |     | XA314  | 23        |     |     |             | 16B  | 9     |       | TC148Q         | 01     | TD147A | 01       | 1    | TQ2    | A1               |       | 06A                 |                    |                    |        |
| 12355   | XA208  | 09        |     |     | XA213  | 15        |     |     |             | 16B  | 9     |       | TD2980         | 01     | TD2980 | 00       | 1    | TQ2    | A3               |       | 04B                 | PAR REG SEL YC02   |                    |        |
| 10574   | XA208  | 10        |     |     | XA213  | 07        |     |     |             | 16B  | 9     |       | TDAXA0         | 01     | TD147A | 01       | 2    | TQ2    | A1               |       | 07A                 |                    |                    |        |
| 13537   | XA208  | 11        |     |     | XA109  | 59        |     |     |             | 16B  | 9     |       | Y110C0         | 01     | YED7AA | 01       | 1    | TQ2    | A4               |       | 05B                 |                    |                    |        |
| 00382   | XA208  | 12        |     |     |        |           |     |     |             |      |       |       | +5V            | 01     |        |          |      | TQ2    |                  |       |                     |                    |                    |        |
| 10948   | XA208  | 13        |     |     |        |           |     |     |             |      |       |       | TD17A0         | 04     | YED7AA | 01       | 2    | TQ2    | A4               |       | 06B                 |                    |                    |        |
| 04569   | XA208  | 14        |     |     | XA307  | 61        |     |     |             | 16B  | 9     |       | K0228A         | 01     | K0228A | 00       | 1    | TQ2    | B2               |       | 09A                 | (OFR 02)(DATA BI   |                    |        |
| 12493   | XA208  | 15        |     |     | XA246  | 49        |     |     |             | 16B  | 9     |       | YED7AA         | 01     | YED7AA | 00       | 1    | TQ2    | A4               |       | 07B                 | DATA BIT 7.11      |                    |        |
| 02040   | XA208  | 16        |     |     |        |           |     |     |             |      |       |       | GND            | 01     |        |          |      | TQ2    |                  |       | 01B                 |                    |                    |        |
| 04380   | XA208  | 17        |     |     | XA210  | 17        |     |     |             | 16B  | 9     |       | KOR110         | 02     | K0129A | 01       | 1    | TQ2    | B3               |       | 08B                 | OFR ADDRESS 01     |                    |        |
| 12296   | XA208  | 18        |     |     | XA208  | 26        |     |     |             | 16B  | 9     |       | TD28C0         | 01     | K0228A | 01       | 1    | TQ2    | B2               |       | 10A                 |                    |                    |        |
| 12331   | XA208  | 19        |     |     | XA208  | 23        |     |     |             | 16B  | 9     |       | TD29C0         | 01     | K0129A | 01       | 2    | TQ2    | B3               |       | 09B                 |                    |                    |        |
| 04415   | XA208  | 20        |     |     | XA210  | 13        |     |     |             | 16B  | 9     |       | KOR210         | 02     | K0228A | 01       | 2    | TQ2    | B2               |       | 11A                 | OFR ADDRESS 02     |                    |        |
| 04508   | XA208  | 21        |     |     |        |           |     |     |             |      |       |       | K0129A         | 02     | K0129A | 00       | 1    | TQ2    | B3               |       | 10B                 | (OFR 01)(DATA BI   |                    |        |
| 04505   | XA208  | 22        |     |     | XA306  | 59        |     |     |             | 16B  | 9     |       | K0128A         | 01     | K0128A | 00       | 1    | TQ2    | B1               |       | 12A                 | (OFR 01)(DATA BI   |                    |        |
| 12332   | XA208  | 23        |     |     | XA220  | 42        |     |     |             | 16B  | 9     |       | TD29C0         | 02     | K0229A | 01       | 1    | TQ2    | B4               |       | 11B                 |                    |                    |        |
| 04379   | XA208  | 24        |     |     | XA208  | 17        |     |     |             | 16B  | 9     |       | KOR110         | 01     | K0128A | 01       | 1    | TQ2    | B1               |       | 13A                 | OFR ADDRESS 01     |                    |        |
| 04414   | XA208  | 25        |     |     | XA208  | 20        |     |     |             | 16B  | 9     |       | KOR210         | 01     | K0229A | 01       | 2    | TQ2    | B4               |       | 12B                 | OFR ADDRESS 02     |                    |        |
| 12297   | XA208  | 26        |     |     | XA220  | 31        |     |     |             | 16B  | 9     |       | TD28C0         | 02     | K0128A | 01       | 2    | TQ2    | B1               |       | 14A                 |                    |                    |        |
| 04572   | XA208  | 27        |     |     |        |           |     |     |             |      |       |       | K0229A         | 02     | K0229A | 00       | 1    | TQ2    | B4               |       | 13B                 | (OFR 02)(DATA BI   |                    |        |
| 00383   | XA208  | 28        |     |     |        |           |     |     |             |      |       |       | +5V            | 01     |        |          |      | TQ2    |                  |       |                     |                    |                    |        |
| 05259   | XA208  | 29        |     |     | XA209  | 07        |     |     |             | 16B  | 9     |       | KMR01R         | 00     | KSYSM0 | 01       | 1    | TQ2    | C3               |       | 14B                 |                    | 805                |        |
| 07873   | XA208  | 30        |     |     |        |           |     |     |             |      |       |       | SPO            | 01     |        |          |      | TQ2    | C2               |       | 15A                 |                    |                    |        |
| 05276   | XA208  | 31        |     |     | XA209  | 15        |     |     |             | 16B  | 9     |       | KMR02R         | 00     | KSYSM0 | 01       | 2    | TQ2    | C3               |       | 15B                 |                    | 805                |        |
| 02041   | XA208  | 32        |     |     |        |           |     |     |             |      |       |       | GND            | 01     |        |          |      | TQ2    |                  |       | 20B                 |                    |                    |        |
| 07874   | XA208  | 33        |     |     | XA117  | 74        |     |     |             | 16B  | 9     |       | KSYSM0         | 01     | KSYSM0 | 00       | 1    | TQ2    | C3               |       | 16B                 |                    | 805                |        |
| 05258   | XA208  | 34        |     |     | XA207  | 34        |     |     |             | 16B  | 9     |       | SPI014         | 21     |        |          |      | TQ2    | C2               |       | 16A                 |                    | 805                |        |
| 17403   | XA208  | 35        |     |     | XA202  | 47        |     |     |             | 16B  | 9     |       | WKSTCA         | 01     | KSWSTS | 01       | 1    | TQ2    | C4               |       | 17B                 |                    |                    |        |
| 05277   | XA208  | 36        |     |     | XA210  | 36        |     |     |             | 16B  | 9     |       | SPI015         | 08     |        |          |      | TQ2    | C2               |       | 17A                 |                    |                    |        |
| 04349   | XA208  | 37        |     |     |        |           |     |     |             |      |       |       | KSWSTR         | 02     | KSWSTS | 01       | 2    | TQ2    | C4               |       | 18B                 |                    |                    |        |
| 04159   | XA208  | 38        |     |     |        |           |     |     |             |      |       |       | KMR06S         | 03     | KMR06S | 00       | 1    | TQ2    | C1               |       | 18A                 | MONITOR REG BIT    |                    |        |
| 04353   | XA208  | 39        |     |     | XA210  | 37        |     |     |             | 16B  | 9     |       | KSWSTS         | 04     | KSWSTS | 00       | 1    | TQ2    | C4               |       | 19B                 | START TEST SWITC   |                    |        |
| 04155   | XA208  | 40        |     |     | XA209  | 51        |     |     |             | 16B  | 9     |       | KMR06R         | 01     | KMR06S | 01       | 1    | TQ2    | C1               |       | 19A                 |                    |                    |        |
| 16192   | XA208  | 41        |     |     | XA108  | 21        |     |     |             | 16B  | 9     |       | TS16BQ         | 07     | YES11A | 01       | 1    | TQ2    | D3               |       | 22B                 |                    |                    |        |
| 04461   | XA208  | 42        |     |     | XA212  | 52        |     |     |             | 16B  | 9     |       | KOL06A         | 01     | KMR06S | 01       | 2    | TQ2    | C1               |       | 20A                 |                    |                    |        |
| 12600   | XA208  | 43        |     |     | XA305  | 11        |     |     |             | 16B  | 9     |       | YEO8A0         | 03     | YES11A | 01       | 2    | TQ2    | D3               |       | 23B                 |                    |                    |        |
| 02042   | XA208  | 44        |     |     |        |           |     |     |             |      |       |       | GND            | 01     |        |          |      | TQ2    |                  |       | 21B                 |                    |                    |        |
| 12568   | XA208  | 45        |     |     | XA112  | 18        |     |     |             | 16B  | 9     |       | YES11A         | 01     | YES11A | 00       | 1    | TQ2    | D3               |       | 24B                 | S16.E0B. -PRE      |                    |        |
| 14670   | XA208  | 46        |     |     | XA138  | 43        |     |     |             | 16B  | 9     |       | TPEM10         | 02     | TPEM10 | 00       | 1    | TQ2    | D2               |       | 21A                 | PARITY ERROR       |                    |        |
| 14638   | XA208  | 47        |     |     |        |           |     |     |             |      |       |       | TPEB2A         | 02     | TPEBA0 | 01       | 1    | TQ2    | D4               |       | 25B                 |                    |                    |        |
| 14661   | XA208  | 48        |     |     |        |           |     |     |             |      |       |       | TPEMBA         | 02     | TPEM10 | 01       | 1    | TQ2    | D2               |       | 22A                 |                    |                    |        |
| 14635   | XA208  | 49        |     |     | XA305  | 47        |     |     |             | 16B  | 9     |       | TPEB1A         | 01     | TPEBA0 | 01       | 2    | TQ2    | D4               |       | 26B                 |                    | 003                |        |
| 14659   | XA208  | 50        |     |     |        |           |     |     |             |      |       |       | TPEMAA         | 02     | TPEM10 | 01       | 2    | TQ2    | D2               |       | 23A                 |                    |                    |        |
| 14629   | XA208  | 51        |     |     |        |           |     |     |             |      |       |       | TPEBA0         | 02     | TPEBA0 | 00       | 1    | TQ2    | D4               |       | 27B                 | SET PARITY ERROR   |                    |        |
| 07875   | XA208  | 52        |     |     |        |           |     |     |             |      |       |       | SPO            | 01     |        |          |      | TQ2    | D1               |       | 24A                 |                    |                    |        |
| 12647   | XA208  | 53        |     |     |        |           |     |     |             |      |       |       | TE02BQ         | 05     | TDL23A | 01       | 1    | TQ2    | E3               |       | 28B                 |                    |                    |        |
| 05273   | XA208  | 54        |     |     | XA207  | 54        |     |     |             | 16B  | 9     |       | SPI015         | 04     |        |          |      | TQ2    | D1               |       | 25A                 |                    |                    |        |
| 13604   | XA208  | 55        |     |     | XA208  | 61        |     |     |             | 16B  | 9     |       | TI23B0         | 01     | TDL23A | 01       | 2    | TQ2    | E3               |       | 29B                 |                    |                    |        |
| 05262   | XA208  | 56        |     |     | XA207  | 64        |     |     |             | 16B  | 9     |       | SPI014         | 25     |        |          |      | TQ2    | D1               |       | 26A                 |                    |                    |        |
| CONNECTOR (XA208) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |             |      |       |       |                |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA208  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 103

| RECORD NUMBER | FROM   |                                 |     | WIRE | TO     |           |     | WIRE   |             |      | SPEC INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION  | ECO NO |
|---------------|--------|---------------------------------|-----|------|--------|-----------|-----|--------|-------------|------|----------------|---------|--------|----------|-------------|------------------|-------|---------------------|--------------------|---------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN |      | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE |                |         |        |          |             |                  |       |                     |                    |                     |        |
| 11021         |        | XA208                           | 57  |      | XA445  | 05        |     |        | 16B         | 9    |                | TDL23A  | 01     | TDL23A   | 00          | 1                | TQ2   | E3                  | 30B                | TE02 TO DATA LIN    |        |
| 02043         |        | XA208                           | 58  |      |        |           |     |        |             |      |                | GND     | 01     |          |             |                  | TQ2   |                     | 27A                |                     |        |
| 12660         |        | XA208                           | 59  |      |        |           |     |        |             |      |                | TE03BQ  | 05     | TDL33A   | 01          | 1                | TQ2   | E4                  | 31B                |                     |        |
| 11007         |        | XA208                           | 60  |      | XA445  | 06        |     |        | 16B         | 9    |                | TDL13A  | 01     | TDL13A   | 00          | 1                | TQ2   | E2                  | 28A                | TE01 TO DATA LIN    |        |
| 13605         |        | XA208                           | 61  |      | XA208  | 64        |     |        | 16B         | 9    |                | TI23B0  | 02     | TDL33A   | 01          | 2                | TQ2   | E4                  | 32B                |                     |        |
| 12634         |        | XA208                           | 62  |      |        |           |     |        |             |      |                | TE01BQ  | 05     | TDL13A   | 01          | 1                | TQ2   | E2                  | 29A                |                     |        |
| 11034         |        | XA208                           | 63  |      | XA445  | 09        |     |        | 16B         | 9    |                | TDL33A  | 01     | TDL33A   | 00          | 1                | TQ2   | E4                  | 33B                | TE03 TO DATA LIN    |        |
| 13606         |        | XA208                           | 64  |      | XA208  | 70        |     |        | 16B         | 9    |                | TI23B0  | 03     | TDL13A   | 01          | 2                | TQ2   | E2                  | 30A                |                     |        |
| 12699         |        | XA208                           | 65  |      |        |           |     |        |             |      |                | TE06BQ  | 05     | TDL63A   | 01          | 1                | TQ2   | F3                  | 34B                |                     |        |
| 10995         |        | XA208                           | 66  |      | XA443  | 54        |     |        | 16B         | 9    |                | TDL03A  | 01     | TDL03A   | 00          | 1                | TQ2   | E1                  | 31A                | TE00 TO DATA LIN    |        |
| 02044         |        | XA208                           | 67  |      |        |           |     |        |             |      |                | GND     | 01     |          |             |                  | TQ2   |                     | 40A                |                     |        |
| 12617         |        | XA208                           | 68  |      | XA235  | 68        |     |        | 16B         | 9    |                | TE00BQ  | 01     | TDL03A   | 01          | 1                | TQ2   | E1                  | 32A                |                     |        |
| 11072         |        | XA208                           | 69  |      | XA445  | 21        |     |        | 16B         | 9    |                | TDL63A  | 01     | TDL63A   | 00          | 1                | TQ2   | F3                  | 35A                | TE06 TO DATA LIN    |        |
| 13607         |        | XA208                           | 70  |      | XA208  | 74        |     |        | 16B         | 9    |                | TI23B0  | 04     | TDL03A   | 01          | 2                | TQ2   | E1                  | 33A                |                     |        |
| 14654         |        | XA208                           | 71  |      | XA207  | 72        |     |        | 16B         | 9    |                | TPEDA0  | 01     | TPEDA0   | 01          | 1                | TQ2   | F2                  | 36A                |                     |        |
| 14647         |        | XA208                           | 72  |      |        |           |     |        |             |      |                | TPEDA0  | 02     | TPEDA0   | 00          | 1                | TQ2   | F2                  | 34A                | SET DATA MEMORY     |        |
| 14657         |        | XA208                           | 73  |      |        |           |     |        |             |      |                | TPEDA0  | 02     | TPEDA0   | 01          | 2                | TQ2   | F2                  | 36B                |                     |        |
| 13608         |        | XA208                           | 74  |      | XA208  | 78        |     |        | 16B         | 9    |                | TI23B0  | 05     | TDL63A   | 01          | 2                | TQ2   | F3                  | 35B                |                     |        |
| 11047         |        | XA208                           | 75  |      | XA445  | 26        |     |        | 16B         | 9    |                | TDL43A  | 01     | TDL43A   | 00          | 1                | TQ2   | F1                  | 37B                | TE04 TO DATA LIN    |        |
| 12712         |        | XA208                           | 76  |      |        |           |     |        |             |      |                | TE07BQ  | 05     | TDL73A   | 01          | 1                | TQ2   | F4                  | 37A                |                     |        |
| 12673         |        | XA208                           | 77  |      |        |           |     |        |             |      |                | TE04BQ  | 05     | TDL43A   | 01          | 1                | TQ2   | F1                  | 38B                |                     |        |
| 13609         |        | XA208                           | 78  |      | XA208  | 79        |     |        | 16B         | 9    |                | TI23B0  | 06     | TDL73A   | 01          | 2                | TQ2   | F4                  | 38A                |                     |        |
| 13610         |        | XA208                           | 79  |      | XA207  | 79        |     |        | 16B         | 9    |                | TI23B0  | 07     | TDL43A   | 01          | 2                | TQ2   | F1                  | 39B                |                     |        |
| 11084         |        | XA208                           | 80  |      | XA407  | 40        |     |        | 16B         | 9    |                | TDL73A  | 01     | TDL73A   | 00          | 1                | TQ2   | F4                  | 39A                | TE07 TO DATA LIN    |        |
| 04515         |        | XA209                           | 01  |      | XA212  | 15        |     |        | 16B         | 9    |                | K0201A  | 01     | KMR01R   | 01          | 1                | TT3   | A2                  | 02B                |                     |        |
| 02045         |        | XA209                           | 02  |      |        |           |     |        |             |      |                | GND     | 01     |          |             |                  | TT3   |                     | 01B                |                     |        |
| 04129         |        | XA209                           | 03  |      |        |           |     |        |             |      |                | KMR01S  | 04     | KMR01R   | 01          | 2                | TT3   | A2                  | 02A                |                     |        |
| 04119         |        | XA209                           | 04  |      | XA108  | 79        |     |        | 16B         | 9    |                | KMR00R  | 01     | KMR00R   | 00          | 1                | TT3   | A1                  | 04A                | MEM TIME OUT CPU    |        |
| 14314         |        | XA209                           | 05  |      | XA209  | 06        |     |        | 16B         | 9    |                | TMRUMB4 | 30     | KMR01R   | 01          | 3                | TT3   | A2                  | 03B                | MASTER RESET - F    |        |
| 14315         |        | XA209                           | 06  |      | XA210  | 53        |     |        | 16B         | 9    |                | TMRUMB4 | 31     | KMR00R   | 01          | 1                | TT3   | A1                  | 05A                | MASTER RESET - FC10 |        |
| 04124         |        | XA209                           | 07  |      | XA108  | 72        |     |        | 16B         | 9    |                | KMR01R  | 01     | KMR01R   | 00          | 1                | TT3   | A2                  | 03A                | MONITOR REG BIT     |        |
| 04514         |        | XA209                           | 08  |      |        |           |     |        |             |      |                | K0200A  | 02     | KMR00R   | 01          | 2                | TT3   | A1                  | 06A                |                     |        |
| 14313         |        | XA209                           | 09  |      | XA209  | 05        |     |        | 16B         | 9    |                | TMRUMB4 | 29     | KMR02R   | 01          | 1                | TT3   | A3                  | 04B                | MASTER RESET - F    |        |
| 04122         |        | XA209                           | 10  |      | XA234  | 42        |     |        | 16B         | 9    |                | KMR00S  | 02     | KMR00R   | 01          | 3                | TT3   | A1                  | 07A                |                     |        |
| 04135         |        | XA209                           | 11  |      |        |           |     |        |             |      |                | KMR02S  | 04     | KMR02R   | 01          | 2                | TT3   | A3                  | 05B                |                     |        |
| 00384         |        | XA209                           | 12  |      |        |           |     |        |             |      |                | +5V     | 01     |          |             |                  | TT3   |                     |                    |                     |        |
| 04518         |        | XA209                           | 13  |      |        |           |     |        |             |      |                | K0202A  | 02     | KMR02R   | 01          | 3                | TT3   | A3                  | 06B                |                     |        |
| 17282         |        | XA209                           | 14  |      | XA111  | 60        |     |        | 16B         | 9    |                | T407P0  | 01     | T0700A   | 01          | 1                | TT3   | B2                  | 09A                |                     |        |
| 04130         |        | XA209                           | 15  |      | XA108  | 69        |     |        | 16B         | 9    |                | KMR02R  | 01     | KMR02R   | 00          | 1                | TT3   | A3                  | 07B                | MONITOR REG BIT     |        |
| 02046         |        | XA209                           | 16  |      |        |           |     |        |             |      |                | GND     | 01     |          |             |                  | TT3   |                     | 21B                |                     |        |
| 17069         |        | XA209                           | 17  |      | XA111  | 70        |     |        | 16B         | 9    |                | T0003A  | 01     | T0700A   | 01          | 2                | TT3   | B2                  | 08B                |                     |        |
| 17104         |        | XA209                           | 18  |      | XA111  | 68        |     |        | 16B         | 9    |                | T0300A  | 01     | T0700A   | 01          | 3                | TT3   | B2                  | 10A                |                     |        |
| 17124         |        | XA209                           | 19  |      | XA109  | 79        |     |        | 16B         | 9    |                | T0700A  | 01     | T0700A   | 00          | 1                | TT3   | B2                  | 09B                | 0-3 EVEN 4-7 ODD    |        |
| 17074         |        | XA209                           | 20  |      |        |           |     |        |             |      |                | T0007A  | 03     | T0007A   | 00          | 1                | TT3   | B1                  | 11A                | 0-3 ODD 4-7 EVEN    |        |
| 17157         |        | XA209                           | 21  |      | XA111  | 61        |     |        | 16B         | 9    |                | T1215A  | 01     | T0815A   | 01          | 1                | TT3   | B3                  | 10B                |                     |        |
| 17078         |        | XA209                           | 22  |      | XA111  | 66        |     |        | 16B         | 9    |                | T003P0  | 01     | T0007A   | 01          | 1                | TT3   | B1                  | 12A                |                     |        |
| 17174         |        | XA209                           | 23  |      |        |           |     |        |             |      |                | T1512A  | 03     | T0815A   | 01          | 2                | TT3   | B3                  | 11B                |                     |        |
| 17129         |        | XA209                           | 24  |      |        |           |     |        |             |      |                | T0704A  | 03     | T0007A   | 01          | 2                | TT3   | B1                  | 13A                |                     |        |
| CONNECTOR     | XA209  | CONTINUED ON THE NEXT PAGE **** |     |      |        |           |     |        |             |      |                |         |        |          |             |                  |       |                     |                    |                     |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA209  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 104

| RECORD NUMBER | FROM      |           |                                 |     | TO     |           |     |     | WIRE |       |       | SPEC. MISC. | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|-----------|-----------|---------------------------------|-----|--------|-----------|-----|-----|------|-------|-------|-------------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX    | CONNECTOR | PIN                             | SHO | PREFIX | CONNECTOR | PIN | SHO | CODE | COLOR | IDENT |             |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 17306         |           | XA209     | 25                              |     |        | XA111     | 57  |     |      | 16B   | 9     |             | T811P0  | 01     | T0815A   | 01   | 3      | TT3              | B3    |                     | 12B                |                    |        |
| 17115         |           | XA209     | 26                              |     |        | XA111     | 62  |     |      | 16B   | 9     |             | T0407A  | 01     | T0007A   | 01   | 3      | TT3              | B1    |                     | 14A                |                    |        |
| 17141         |           | XA209     | 27                              |     |        |           |     |     |      |       |       |             | T0815A  | 03     | T0815A   | 00   | 1      | TT3              | B3    |                     | 13B                | 8-11 ODD 12-15 E   |        |
| 00385         |           | XA209     | 28                              |     |        |           |     |     |      |       |       |             | +5V     | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 17296         |           | XA209     | 29                              |     |        | XA111     | 75  |     |      | 16B   | 9     |             | T619P0  | 01     | T1623A   | 01   | 1      | TT3              | C2    |                     | 14B                |                    |        |
| 17207         |           | XA209     | 30                              |     |        |           |     |     |      |       |       |             | T2023A  | 03     | T1623A   | 01   | 2      | TT3              | C2    |                     | 15A                |                    |        |
| 17186         |           | XA209     | 31                              |     |        |           |     |     |      |       |       |             | T1623A  | 03     | T1623A   | 00   | 1      | TT3              | C2    |                     | 15B                | 16-19 ODD 20-23    |        |
| 02047         |           | XA209     | 32                              |     |        |           |     |     |      |       |       |             | GND     | 01     |          |      |        | TT3              |       |                     | 27A                |                    |        |
| 17183         |           | XA209     | 33                              |     |        |           |     |     |      |       |       |             | T1619A  | 03     | T2316A   | 01   | 1      | TT3              | C3    |                     | 16B                |                    |        |
| 17227         |           | XA209     | 34                              |     |        |           |     |     |      |       |       |             | T2320A  | 03     | T1623A   | 01   | 3      | TT3              | C2    |                     | 16A                |                    |        |
| 17196         |           | XA209     | 35                              |     |        | XA111     | 79  |     |      | 16B   | 9     |             | T1916A  | 01     | T2316A   | 01   | 2      | TT3              | C3    |                     | 17B                |                    |        |
| 17169         |           | XA209     | 36                              |     |        | XA109     | 71  |     |      | 16B   | 9     |             | T1508A  | 01     | T1508A   | 00   | 1      | TT3              | C1    |                     | 17A                | 8-11 EVEN 12-15    |        |
| 17100         |           | XA209     | 37                              |     |        | XA111     | 72  |     |      | 16B   | 9     |             | T023P0  | 01     | T2316A   | 01   | 3      | TT3              | C3    |                     | 18B                |                    |        |
| 17215         |           | XA209     | 38                              |     |        | XA111     | 63  |     |      | 16B   | 9     |             | T215P0  | 01     | T1508A   | 01   | 1      | TT3              | C1    |                     | 18A                |                    |        |
| 17224         |           | XA209     | 39                              |     |        |           |     |     |      |       |       |             | T2316A  | 03     | T2316A   | 00   | 1      | TT3              | C3    |                     | 19B                | 16-19 ODD 20-23    |        |
| 17150         |           | XA209     | 40                              |     |        |           |     |     |      |       |       |             | T1108A  | 03     | T1508A   | 01   | 2      | TT3              | C1    |                     | 19A                |                    |        |
| 17314         |           | XA209     | 41                              |     |        | XA111     | 80  |     |      | 16B   | 9     |             | T831P0  | 01     | T3124A   | 01   | 1      | TT3              | D2    |                     | 22B                |                    |        |
| 17138         |           | XA209     | 42                              |     |        |           |     |     |      |       |       |             | T0811A  | 03     | T1508A   | 01   | 3      | TT3              | C1    |                     | 20A                |                    |        |
| 17273         |           | XA209     | 43                              |     |        |           |     |     |      |       |       |             | T3124A  | 03     | T3124A   | 00   | 1      | TT3              | D2    |                     | 23B                | 24-27 EVEN 28-31   |        |
| 02048         |           | XA209     | 44                              |     |        |           |     |     |      |       |       |             | GND     | 01     |          |      |        | TT3              |       |                     | 40A                |                    |        |
| 04153         |           | XA209     | 45                              |     |        | XA346     | 80  |     |      | 16B   | 9     |             | KMR06A  | 01     | KMR06R   | 01   | 1      | TT3              | D3    |                     | 24B                | MASTER RESET - F   |        |
| 17234         |           | XA209     | 46                              |     |        | XA110     | 64  |     |      | 16B   | 9     |             | T2427A  | 01     | T3124A   | 01   | 2      | TT3              | D2    |                     | 21A                |                    |        |
| 04525         |           | XA209     | 47                              |     |        | XA212     | 46  |     |      | 16B   | 9     |             | K0206A  | 01     | KMR06R   | 01   | 2      | TT3              | D3    |                     | 25B                |                    |        |
| 17246         |           | XA209     | 48                              |     |        | XA111     | 74  |     |      | 16B   | 9     |             | T2724A  | 01     | T3124A   | 01   | 3      | TT3              | D2    |                     | 22A                |                    |        |
| 04158         |           | XA209     | 49                              |     |        | XA208     | 38  |     |      | 16B   | 9     |             | KMR06S  | 02     | KMR06R   | 01   | 3      | TT3              | D3    |                     | 26B                |                    |        |
| 17239         |           | XA209     | 50                              |     |        |           |     |     |      |       |       |             | T2431A  | 03     | T2431A   | 00   | 1      | TT3              | D1    |                     | 23A                | 24.27 ODD 28-31    |        |
| 04156         |           | XA209     | 51                              |     |        |           |     |     |      |       |       |             | KMR06R  | 02     | KMR06R   | 00   | 1      | TT3              | D3    |                     | 27B                | MONITOR REG BIT    |        |
| 17288         |           | XA209     | 52                              |     |        | XA111     | 69  |     |      | 16B   | 9     |             | T427P0  | 01     | T2431A   | 01   | 1      | TT3              | D1    |                     | 24A                |                    |        |
| 04223         |           | XA209     | 53                              |     |        | XA122     | 39  |     |      | 16B   | 9     |             | KMR16S  | 01     | KMR16R   | 01   | 1      | TT3              | E2    |                     | 28B                |                    | C10    |
| 17276         |           | XA209     | 54                              |     |        |           |     |     |      |       |       |             | T3128A  | 03     | T2431A   | 01   | 2      | TT3              | D1    |                     | 25A                |                    |        |
| 04222         |           | XA209     | 55                              |     |        |           |     |     |      |       |       |             | KMR16R  | 02     | KMR16R   | 00   | 1      | TT3              | E2    |                     | 29B                | MONITOR REG BIT    |        |
| 17257         |           | XA209     | 56                              |     |        |           |     |     |      |       |       |             | T2831A  | 03     | T2431A   | 01   | 3      | TT3              | D1    |                     | 26A                |                    |        |
| 14312         |           | XA209     | 57                              |     |        | XA209     | 09  |     |      | 16B   | 9     |             | TMRUMB4 | 28     | KMR17R   | 01   | 1      | TT3              | E3    |                     | 30B                | MASTER RESET - F   |        |
| 02049         |           | XA209     | 58                              |     |        |           |     |     |      |       |       |             | GND     | 01     |          |      |        | TT3              |       |                     | 40B                |                    |        |
| 04548         |           | XA209     | 59                              |     |        |           |     |     |      |       |       |             | K0217A  | 02     | KMR17R   | 01   | 2      | TT3              | E3    |                     | 31B                |                    |        |
| 04545         |           | XA209     | 60                              |     |        | XA211     | 30  |     |      | 16B   | 9     |             | K0216A  | 01     | KMR16R   | 01   | 2      | TT3              | E2    |                     | 28A                |                    |        |
| 04230         |           | XA209     | 61                              |     |        | XA233     | 55  |     |      | 16B   | 9     |             | KMR17S  | 02     | KMR17R   | 01   | 3      | TT3              | E3    |                     | 32B                |                    |        |
| 14311         |           | XA209     | 62                              |     |        | XA209     | 57  |     |      | 16B   | 9     |             | TMRUMB4 | 27     | KMR16R   | 01   | 3      | TT3              | E2    |                     | 29A                | MASTER RESET - F   |        |
| 04228         |           | XA209     | 63                              |     |        |           |     |     |      |       |       |             | KMR17R  | 03     | KMR17R   | 00   | 1      | TT3              | E3    |                     | 33B                | MONITOR REG BIT    |        |
| 04163         |           | XA209     | 64                              |     |        |           |     |     |      |       |       |             | KMR07R  | 02     | KMR07R   | 00   | 1      | TT3              | E1    |                     | 30A                | MONITOR REG BIT    |        |
| 04245         |           | XA209     | 65                              |     |        | XA210     | 69  |     |      | 16B   | 9     |             | KMR19S  | 01     | KMR19R   | 01   | 1      | TT3              | F2    |                     | 34B                |                    |        |
| 14310         |           | XA209     | 66                              |     |        | XA209     | 62  |     |      | 16B   | 9     |             | TMRUMB4 | 26     | KMR07R   | 01   | 1      | TT3              | E1    |                     | 31A                | MASTER RESET - F   |        |
| 02050         |           | XA209     | 67                              |     |        |           |     |     |      |       |       |             | GND     | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 04164         |           | XA209     | 68                              |     |        | XA122     | 31  |     |      | 16B   | 9     |             | KMR07S  | 01     | KMR07R   | 01   | 2      | TT3              | E1    |                     | 32A                |                    | C09    |
| 14309         |           | XA209     | 69                              |     |        | XA209     | 66  |     |      | 16B   | 9     |             | TMRUMB4 | 25     | KMR20R   | 01   | 1      | TT3              | F3    |                     | 35A                | MASTER RESET - F   |        |
| 04528         |           | XA209     | 70                              |     |        |           |     |     |      |       |       |             | K0207A  | 02     | KMR07R   | 01   | 3      | TT3              | E1    |                     | 33A                |                    |        |
| 14308         |           | XA209     | 71                              |     |        | XA209     | 69  |     |      | 16B   | 9     |             | TMRUMB4 | 24     | KMR19R   | 01   | 2      | TT3              | F2    |                     | 36A                | MASTER RESET - F   |        |
| 04552         |           | XA209     | 72                              |     |        |           |     |     |      |       |       |             | K0219A  | 02     | KMR19R   | 01   | 3      | TT3              | F2    |                     | 34A                |                    |        |
| 04236         |           | XA209     | 73                              |     |        |           |     |     |      |       |       |             | KMR18R  | 03     | KMR18R   | 00   | 1      | TT3              | F1    |                     | 36B                | MONITOR REG BIT    |        |
| 04244         |           | XA209     | 74                              |     |        |           |     |     |      |       |       |             | KMR19R  | 03     | KMR19R   | 00   | 1      | TT3              | F2    |                     | 35B                | MONITOR REG BIT    |        |
|               | CONNECTOR | XA209     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |      |       |       |             |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA209  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 105

| RECORD NUMBER                                   | FROM   |           |     | TO  |        |           | WIRE |  |  | MULTI GROUP | CODE | COLOR | IDENT   | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|------|--|--|-------------|------|-------|---------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | PREFIX | CONNECTOR | PIN  |  |  |             |      |       |         |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14307   |        | XA209     | 75  |     | XA209  | 71        |      |  |  | 16B         | 9    |       | TMRUMB4 | 23     | KMR18R | 01       | 1    | TT3    | F1               |       | 37B                 | MASTER RESET - F   |                    |        |
| 04553   |        | XA209     | 76  |     | XA211  | 60        |      |  |  | 16B         | 9    |       | K0220A  | 01     | KMR20R | 01       | 2    | TT3    | F3               |       | 37A                 |                    |                    |        |
| 04237   |        | XA209     | 77  |     | XA210  | 72        |      |  |  | 16B         | 9    |       | KMR18S  | 01     | KMR18R | 01       | 2    | TT3    | F1               |       | 38B                 |                    |                    |        |
| 04253   |        | XA209     | 78  |     | XA210  | 80        |      |  |  | 16B         | 9    |       | KMR20S  | 01     | KMR20R | 01       | 3    | TT3    | F3               |       | 38A                 |                    |                    |        |
| 04549   |        | XA209     | 79  |     | XA211  | 46        |      |  |  | 16B         | 9    |       | K0218A  | 01     | KMR18R | 01       | 3    | TT3    | F1               |       | 39B                 | MONITOR REG BIT    |                    |        |
| 04252   |        | XA209     | 80  |     |        |           |      |  |  |             |      |       | KMR20R  | 03     | KMR20R | 00       | 1    | TT3    | F3               |       | 39A                 |                    |                    |        |
| 04561   |        | XA210     | 01  |     | XA309  | 71        |      |  |  | 16B         | 9    |       | K0224A  | 01     | K0224A | 00       | 1    | TQ2    | A2               |       | 02B                 | (OFR 02)(DATA BI   |                    |        |
| 02051   |        | XA210     | 02  |     |        |           |      |  |  |             |      |       | GND     | 01     |        |          | 1    | TQ2    |                  |       | 01A                 |                    |                    |        |
| 04387   |        | XA210     | 03  |     | XA212  | 03        |      |  |  | 16B         | 9    |       | KOR110  | 09     | K0125A | 01       | 1    | TQ2    | A3               |       | 02A                 | OFR ADDRESS 01 -   |                    |        |
| 12148   |        | XA210     | 04  |     | XA210  | 10        |      |  |  | 16B         | 9    |       | T024C0  | 01     | K0224A | 01       | 1    | TQ2    | A2               |       | 04A                 |                    |                    |        |
| 04417   |        | XA210     | 05  |     | XA211  | 05        |      |  |  | 16B         | 9    |       | KOR210  | 04     | K0224A | 01       | 2    | TQ2    | A2               |       | 03B                 | OFR ADDRESS 02 -   |                    |        |
| 04497   |        | XA210     | 06  |     | XA308  | 73        |      |  |  | 16B         | 9    |       | K0124A  | 01     | K0124A | 00       | 1    | TQ2    | A1               |       | 05A                 |                    | (OFR 01)(DATA BI   |        |
| 12186   |        | XA210     | 07  |     | XA220  | 10        |      |  |  | 16B         | 9    |       | T025C0  | 02     | K0125A | 01       | 2    | TQ2    | A3               |       | 03A                 | OFR ADDRESS 01 -   |                    |        |
| 04385   |        | XA210     | 08  |     | XA211  | 03        |      |  |  | 16B         | 9    |       | KOR110  | 07     | K0124A | 01       | 1    | TQ2    | A1               |       | 06A                 |                    |                    |        |
| 04500   |        | XA210     | 09  |     |        |           |      |  |  |             |      |       | K0125A  | 02     | K0125A | 00       | 1    | TQ2    | A3               |       | 04B                 | (OFR 01)(DATA BI   |                    |        |
| 12149   |        | XA210     | 10  |     | XA220  | 07        |      |  |  | 16B         | 9    |       | T024C0  | 02     | K0124A | 01       | 2    | TQ2    | A1               |       | 07A                 |                    |                    |        |
| 12185   |        | XA210     | 11  |     | XA210  | 07        |      |  |  | 16B         | 9    |       | T025C0  | 01     | K0225A | 01       | 1    | TQ2    | A4               |       | 05B                 |                    |                    |        |
| 00386   |        | XA210     | 12  |     |        |           |      |  |  |             |      |       | +5V     | 01     |        |          | 1    | TQ2    |                  |       |                     |                    |                    |        |
| 04416   |        | XA210     | 13  |     | XA210  | 05        |      |  |  | 16B         | 9    |       | KOR210  | 03     | K0225A | 01       | 2    | TQ2    | A4               |       | 06B                 | OFR ADDRESS 02 -   |                    |        |
| 04565   |        | XA210     | 14  |     | XA307  | 68        |      |  |  | 16B         | 9    |       | K0226A  | 01     | K0226A | 00       | 1    | TQ2    | B2               |       | 09A                 |                    | (OFR 02)(DATA BI   |        |
| 04564   |        | XA210     | 15  |     |        |           |      |  |  |             |      |       | K0225A  | 02     | K0225A | 00       | 1    | TQ2    | A4               |       | 07B                 | (OFR 02)(DATA BI   |                    |        |
| 02052   |        | XA210     | 16  |     |        |           |      |  |  |             |      |       | GND     | 01     |        |          | 1    | TQ2    |                  |       | 01B                 |                    |                    |        |
| 04381   |        | XA210     | 17  |     | XA211  | 17        |      |  |  | 16B         | 9    |       | KOR110  | 03     | K0127A | 01       | 1    | TQ2    | B3               |       | 08B                 | OFR ADDRESS 01 -   |                    |        |
| 12223   |        | XA210     | 18  |     | XA220  | 19        |      |  |  | 16B         | 9    |       | T026C0  | 02     | K0226A | 01       | 1    | TQ2    | B2               |       | 10A                 |                    |                    |        |
| 12263   |        | XA210     | 19  |     |        |           |      |  |  |             |      |       | T027C0  | 03     | K0127A | 01       | 2    | TQ2    | B3               |       | 09B                 |                    |                    |        |
| 04422   |        | XA210     | 20  |     | XA211  | 20        |      |  |  | 16B         | 9    |       | KOR210  | 09     | K0226A | 01       | 2    | TQ2    | B2               |       | 11A                 | OFR ADDRESS 02 -   |                    |        |
| 04504   |        | XA210     | 21  |     |        |           |      |  |  |             |      |       | K0127A  | 02     | K0127A | 00       | 1    | TQ2    | B3               |       | 10B                 |                    | (OFR 01)(DATA BI   |        |
| 04501   |        | XA210     | 22  |     | XA306  | 68        |      |  |  | 16B         | 9    |       | K0126A  | 01     | K0126A | 00       | 1    | TQ2    | B1               |       | 12A                 | (OFR 01)(DATA BI   |                    |        |
| 12262   |        | XA210     | 23  |     | XA210  | 19        |      |  |  | 16B         | 9    |       | T027C0  | 02     | K0227A | 01       | 1    | TQ2    | B4               |       | 11B                 |                    |                    |        |
| 04391   |        | XA210     | 24  |     | XA212  | 24        |      |  |  | 16B         | 9    |       | KOR120  | 01     | K0126A | 01       | 1    | TQ2    | B1               |       | 13A                 | OFR ADDRESS 01 -   |                    |        |
| 04428   |        | XA210     | 25  |     | XA211  | 25        |      |  |  | 16B         | 9    |       | KOR220  | 03     | K0227A | 01       | 2    | TQ2    | B4               |       | 12B                 |                    | OFR ADDRESS 02 -   |        |
| 12222   |        | XA210     | 26  |     | XA210  | 18        |      |  |  | 16B         | 9    |       | T026C0  | 01     | K0126A | 01       | 2    | TQ2    | B1               |       | 14A                 |                    |                    |        |
| 04568   |        | XA210     | 27  |     |        |           |      |  |  |             |      |       | K0227A  | 02     | K0227A | 00       | 1    | TQ2    | B4               |       | 13B                 | (OFR 02)(DATA BI   |                    |        |
| 00387   |        | XA210     | 28  |     |        |           |      |  |  |             |      |       | +5V     | 01     |        |          | 1    | TQ2    |                  |       |                     |                    |                    |        |
| 05280   |        | XA210     | 29  |     | XA213  | 35        |      |  |  | 16B         | 9    |       | SPI015  | 11     |        |          | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 07876   |        | XA210     | 30  |     |        |           |      |  |  |             |      |       | SPO     | 01     |        |          | 00   | 1      | TQ2              | C2    |                     | 15A                |                    |        |
| 05257   |        | XA210     | 31  |     | XA208  | 34        |      |  |  | 16B         | 9    |       | SPI014  | 20     |        |          | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 02053   |        | XA210     | 32  |     |        |           |      |  |  |             |      |       | GND     | 01     |        |          |      |        |                  |       |                     | 20B                |                    |        |
| 07877   |        | XA210     | 33  |     |        |           |      |  |  |             |      |       | SPO     | 01     |        |          | 00   | 1      | TQ2              | C3    |                     | 16B                |                    |        |
| 05256   |        | XA210     | 34  |     | XA210  | 31        |      |  |  | 16B         | 9    |       | SPI014  | 19     |        |          | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 20560   |        | XA210     | 35  |     | XA318  | 38        |      |  |  | 16B         | 9    |       | WKSTOA  | 02     | KSWSTR | 01       | 1    | TQ2    | C4               |       | 17B                 |                    |                    |        |
| 05278   |        | XA210     | 36  |     | XA210  | 40        |      |  |  | 16B         | 9    |       | SPI015  | 09     |        |          | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 04354   |        | XA210     | 37  |     |        |           |      |  |  |             |      |       | KSWSTS  | 05     | KSWSTR | 01       | 2    | TQ2    | C4               |       | 18B                 |                    |                    |        |
| 07878   |        | XA210     | 38  |     |        |           |      |  |  |             |      |       | SPO     | 01     |        |          | 00   | 1      | TQ2              | C1    |                     | 18A                |                    |        |
| 04348   |        | XA210     | 39  |     | XA208  | 37        |      |  |  | 16B         | 9    |       | KSWSTR  | 01     | KSWSTR | 00       | 1    | TQ2    | C4               |       | 19B                 | START TEST SWITC   |                    |        |
| 05275   |        | XA210     | 40  |     | XA210  | 29        |      |  |  | 16B         | 9    |       | SPI015  | 10     |        |          | 01   | 1      | TQ2              | C1    |                     |                    | 19A                |        |
| 04396   |        | XA210     | 41  |     | XA211  | 41        |      |  |  | 16B         | 9    |       | KOR120  | 06     | K0131A | 01       | 1    | TQ2    | D3               |       | 22B                 | OFR ADDRESS 01 -   |                    |        |
| 05255   |        | XA210     | 42  |     | XA210  | 34        |      |  |  | 16B         | 9    |       | SPI014  | 18     |        |          | 01   | 2      | TQ2              | C1    |                     |                    | 20A                |        |
| CONNECTOR XA210 CCNTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |      |  |  |             |      |       |         |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA210  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 106

| RECORD NUMBER                                     | FROM   |           |     | TO    |        |           | WIRE |       |             |      | SPEC INST | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | C/T OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|------|-------|-------------|------|-----------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH 74 | PREFIX | CONNECTOR | PIN  | SH 74 | MULTI GROUP | CODE |           |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 12406   |        | XA210     | 43  |       |        |           |      |       |             |      |           | TD31C0  | 03     | K0131A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02054   |        | XA210     | 44  |       |        |           |      |       |             |      |           | GND     | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 04512   |        | XA210     | 45  |       |        |           |      |       |             |      |           | K0131A  | 02     | K0131A   | 00   | 1      | TQ2              | D3    |                     | 24B                | (OFR 01)(DATA BI   |        |
| 04573   |        | XA210     | 46  |       | XA307  | 65        |      |       |             | 16B  | 9         | K0230A  | 01     | K0230A   | 00   | 1      | TQ2              | D2    |                     | 21A                | (OFR 02)(DATA BI   |        |
| 12405   |        | XA210     | 47  |       | XA210  | 43        |      |       |             | 16B  | 9         | TD31C0  | 02     | K0231A   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 12369   |        | XA210     | 48  |       | XA210  | 56        |      |       |             | 16B  | 9         | TD30C0  | 02     | K0230A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 04437   |        | XA210     | 49  |       |        |           |      |       |             |      |           | KOR220  | 12     | K0231A   | 01   | 2      | TQ2              | D4    |                     | 26B                | OFR ADDRESS 02 -   |        |
| 04436   |        | XA210     | 50  |       | XA210  | 49        |      |       |             | 16B  | 9         | KOR220  | 11     | K0230A   | 01   | 2      | TQ2              | D2    |                     | 23A                | OFR ADDRESS 02 -   |        |
| 04576   |        | XA210     | 51  |       |        |           |      |       |             |      |           | K0231A  | 02     | K0231A   | 00   | 1      | TQ2              | D4    |                     | 27B                | (OFR 02)(DATA BI   |        |
| 04509   |        | XA210     | 52  |       | XA306  | 65        |      |       |             | 16B  | 9         | K0130A  | 01     | K0130A   | 00   | 1      | TQ2              | D1    |                     | 24A                | (OFR 01)(DATA BI   |        |
| 04481   |        | XA210     | 53  |       | XA331  | 05        |      |       |             | 16B  | 9         | THRUMB4 | 311    | YINHA0   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 04413   |        | XA210     | 54  |       |        |           |      |       |             |      |           | KOR130  | 12     | K0130A   | 01   | 1      | TQ2              | D1    |                     | 25A                | OFR ADDRESS 01 -   |        |
| 04221   |        | XA210     | 55  |       | XA225  | 19        |      |       |             | 16B  | 9         | TOFS2A  | 00M    | YINHA0   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 12370   |        | XA210     | 56  |       |        |           |      |       |             |      |           | TD30C0  | 03     | K0130A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 04224   |        | XA210     | 57  |       | XA112  | 77        |      |       |             | 16B  | 9         | YINHA0  | 01     | YINHA0   | 00   | 1      | TQ2              | E3    |                     | 30B                |                    |        |
| 02055   |        | XA210     | 58  |       |        |           |      |       |             |      |           | GND     | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 05272   |        | XA210     | 59  |       | XA208  | 54        |      |       |             | 16B  | 9         | SPI015  | 03     |          | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 04165   |        | XA210     | 60  |       |        |           |      |       |             |      |           | SPO     | 02     |          | 00   | 1      | TQ2              | E2    |                     | 28A                | MONITOR REG BIT    |        |
| 05269   |        | XA210     | 61  |       | XA210  | 62        |      |       |             | 16B  | 9         | SPI014  | 32     |          | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 04463   |        | XA210     | 62  |       |        |           |      |       |             |      |           | SPI014  | 33     |          | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 07879   |        | XA210     | 63  |       |        |           |      |       |             |      |           | SPO     | 01     |          | 00   | 1      | TQ2              | E4    |                     | 33B                |                    |        |
| 04162   |        | XA210     | 64  |       |        |           |      |       |             |      |           | SPI013  | 38     |          | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 04487   |        | XA210     | 65  |       | XA211  | 45        |      |       |             | 16B  | 9         | K0119A  | 01     | KMR19S   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 12205   |        | XA210     | 66  |       | XA215  | 04        |      |       |             | 16B  | 9         | TD257A  | 01     | TD257A   | 00   | 1      | TQ2              | E1    |                     | 31A                | KW/TW SEL CONSTAN  |        |
| 02056   |        | XA210     | 67  |       |        |           |      |       |             |      |           | GND     | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 13865   |        | XA210     | 68  |       | XA213  | 38        |      |       |             | 16B  | 9         | TKTSA0  | 02     | TD257A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 04246   |        | XA210     | 69  |       | XA233  | 65        |      |       |             | 16B  | 9         | KMR19S  | 02     | KMR19S   | 00   | 1      | TQ2              | F3    |                     | 35A                | MONITOR REG BIT    |        |
| 08665   |        | XA210     | 70  |       | XA207  | 20        |      |       |             | 16B  | 9         | TA05BQ  | 06     | TD257A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 04235   |        | XA210     | 71  |       | XA209  | 73        |      |       |             | 16B  | 9         | KMR18R  | 02     | KMR18S   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 04238   |        | XA210     | 72  |       | XA233  | 79        |      |       |             | 16B  | 9         | KMR18S  | 02     | KMR18S   | 00   | 1      | TQ2              | F2    |                     | 34A                | MONITOR REG BIT    |        |
| 04486   |        | XA210     | 73  |       |        |           |      |       |             |      |           | K0118A  | 02     | KMR18S   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 04243   |        | XA210     | 74  |       | XA209  | 74        |      |       |             | 16B  | 9         | KMR19R  | 02     | KMR19S   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 04229   |        | XA210     | 75  |       | XA209  | 61        |      |       |             | 16B  | 9         | KMR17S  | 01     | KMR17S   | 00   | 1      | TQ2              | F1    |                     | 37B                | MONITOR REG BIT    |        |
| 04490   |        | XA210     | 76  |       |        |           |      |       |             |      |           | K0120A  | 02     | KMR20S   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 04227   |        | XA210     | 77  |       | XA209  | 63        |      |       |             | 16B  | 9         | KMR17R  | 02     | KMR17S   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 04251   |        | XA210     | 78  |       | XA209  | 80        |      |       |             | 16B  | 9         | KMR20R  | 02     | KMR20S   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 04483   |        | XA210     | 79  |       | XA211  | 33        |      |       |             | 16B  | 9         | K0117A  | 01     | KMR17S   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 04254   |        | XA210     | 80  |       | XA232  | 08        |      |       |             | 16B  | 9         | KMR20S  | 02     | KMR20S   | 00   | 1      | TQ2              | F4    |                     | 39A                | MONITOR REG BIT    |        |
| 04538   |        | XA211     | 01  |       |        |           |      |       |             |      |           | K0212A  | 02     | K0212A   | 03   | 1      | TQ2              | A2    |                     | 02B                | (OFR 02)(DATA BI   |        |
| 02057   |        | XA211     | 02  |       |        |           |      |       |             |      |           | GND     | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 04386   |        | XA211     | 03  |       | XA210  | 03        |      |       |             | 16B  | 9         | KOR110  | 08     | K0113A   | 01   | 1      | TQ2              | A3    |                     | 02A                | OFR ADDRESS 01 -   |        |
| 11734   |        | XA211     | 04  |       | XA211  | 10        |      |       |             | 16B  | 9         | TD12C0  | 02     | K0212A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 04418   |        | XA211     | 05  |       | XA212  | 05        |      |       |             | 16B  | 9         | KOR210  | 05     | K0212A   | 01   | 2      | TQ2              | A2    |                     | 03B                | OFR ADDRESS 02 -   |        |
| 04474   |        | XA211     | 06  |       |        |           |      |       |             |      |           | K0112A  | 02     | K0112A   | 00   | 1      | TQ2              | A1    |                     | 05A                | (OFR 01)(DATA BI   |        |
| 11767   |        | XA211     | 07  |       | XA211  | 11        |      |       |             | 16B  | 9         | TD13C0  | 02     | K0113A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 04384   |        | XA211     | 08  |       | XA210  | 08        |      |       |             | 16B  | 9         | KOR110  | 06     | K0112A   | 01   | 1      | TQ2              | A1    |                     | 06A                | OFR ADDRESS 01 -   |        |
| 04475   |        | XA211     | 09  |       | XA306  | 37        |      |       |             | 16B  | 9         | K0113A  | 01     | K0113A   | 00   | 1      | TQ2              | A3    |                     | 04B                | (OFR 01)(DATA BI   |        |
| 11735   |        | XA211     | 10  |       | XA419  | 71        |      |       |             | 16B  | 9         | TD12C0  | 03     | K0112A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| CONNECTOR (XA211) CCNTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |      |       |             |      |           |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA211  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 107

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | TEST POINT | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | EN 74 | MULTI GROUP | CODE | COLOR |            |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 11768   |        | XA211     | 11  |        |           |     |       |             |      |       |            | TD13C0 | 03     | K0213A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00388   |        | XA211     | 12  |        |           |     |       |             |      |       |            | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 04421   |        | XA211     | 13  |        | XA210     | 20  |       |             | 16B  | 9     |            | KOR210 | 08     | K0213A   | 01   | 2      | TQ2              | A4    |                     | 06B                | OFR ADDRESS 02 -   |        |
| 04542   |        | XA211     | 14  |        |           |     |       |             |      |       |            | K0214A | 02     | K0214A   | 00   | 1      | TQ2              | B2    |                     | 09A                | (OFR 02)(DATA BI   |        |
| 04539   |        | XA211     | 15  |        | XA307     | 37  |       |             | 16B  | 9     |            | K0213A | 01     | K0213A   | 00   | 1      | TQ2              | A4    |                     | 07B                | (OFR 02)(DATA BI   |        |
| 02058   |        | XA211     | 16  |        |           |     |       |             |      |       |            | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 04382   |        | XA211     | 17  |        | XA212     | 17  |       |             | 16B  | 9     |            | KOR110 | 04     | K0115A   | 01   | 1      | TQ2              | B3    |                     | 08B                | OFR ADDRESS 01 -   |        |
| 11796   |        | XA211     | 18  |        | XA327     | 09  |       |             | 16B  | 9     |            | TD14BQ | 06     | K0214A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 11828   |        | XA211     | 19  |        | XA211     | 23  |       |             | 16B  | 9     |            | TD15BQ | 05     | K0115A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 04423   |        | XA211     | 20  |        | XA212     | 20  |       |             | 16B  | 9     |            | KOR210 | 10     | K0214A   | 01   | 2      | TQ2              | B2    |                     | 11A                | OFR ADDRESS 02 -   |        |
| 04479   |        | XA211     | 21  |        | XA306     | 46  |       |             | 16B  | 9     |            | K0115A | 01     | K0115A   | 00   | 1      | TQ2              | B3    |                     | 10B                | (OFR 01)(DATA BI   |        |
| 04478   |        | XA211     | 22  |        |           |     |       |             |      |       |            | K0114A | 02     | K0114A   | 00   | 1      | TQ2              | B1    |                     | 12A                | (OFR 01)(DATA BI   |        |
| 11829   |        | XA211     | 23  |        | XA315     | 42  |       |             | 16B  | 9     |            | TD15BQ | 06     | K0215A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 04393   |        | XA211     | 24  |        | XA212     | 29  |       |             | 16B  | 9     |            | KOR120 | 03     | K0114A   | 01   | 1      | TQ2              | B1    |                     | 13A                | OFR ADDRESS 01 -   |        |
| 04429   |        | XA211     | 25  |        | XA211     | 37  |       |             | 16B  | 9     |            | KOR220 | 04     | K0215A   | 01   | 2      | TQ2              | B4    |                     | 12B                | OFR ADDRESS 02 -   |        |
| 11795   |        | XA211     | 26  |        | XA211     | 18  |       |             | 16B  | 9     |            | TD14BQ | 05     | K0114A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 04543   |        | XA211     | 27  |        | XA307     | 41  |       |             | 16B  | 9     |            | K0215A | 01     | K0215A   | 00   | 1      | TQ2              | B4    |                     | 13B                | (OFR 02)(DATA BI   |        |
| 00389   |        | XA211     | 28  |        |           |     |       |             |      |       |            | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 04395   |        | XA211     | 29  |        | XA210     | 41  |       |             | 16B  | 9     |            | KOR120 | 05     | K0117A   | 01   | 1      | TQ2              | C3    |                     | 14B                | OFR ADDRESS 01 -   |        |
| 04546   |        | XA211     | 30  |        |           |     |       |             |      |       |            | K0216A | 02     | K0216A   | 00   | 1      | TQ2              | C2    |                     | 15A                | (OFR 02)(DATA BI   |        |
| 11904   |        | XA211     | 31  |        | XA211     | 35  |       |             | 16B  | 9     |            | TD17C0 | 03     | K0117A   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 02059   |        | XA211     | 32  |        |           |     |       |             |      |       |            | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 04484   |        | XA211     | 33  |        |           |     |       |             |      |       |            | K0117A | 02     | K0117A   | 00   | 1      | TQ2              | C3    |                     | 16B                | (OFR 01)(DATA BI   |        |
| 11868   |        | XA211     | 34  |        | XA224     | 34  |       |             | 16B  | 9     |            | TD16C0 | 03     | K0216A   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 11905   |        | XA211     | 35  |        | XA224     | 37  |       |             | 16B  | 9     |            | TD17C0 | 04     | K0217A   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 04432   |        | XA211     | 36  |        | XA212     | 36  |       |             | 16B  | 9     |            | KOR220 | 07     | K0216A   | 01   | 2      | TQ2              | C2    |                     | 17A                | OFR ADDRESS 02 -   |        |
| 04430   |        | XA211     | 37  |        | XA212     | 37  |       |             | 16B  | 9     |            | KOR220 | 05     | K0217A   | 01   | 2      | TQ2              | C4    |                     | 18B                | OFR ADDRESS 02 -   |        |
| 04482   |        | XA211     | 38  |        |           |     |       |             |      |       |            | K0116A | 02     | K0116A   | 00   | 1      | TQ2              | C1    |                     | 18A                | (OFR 01)(DATA BI   |        |
| 04547   |        | XA211     | 39  |        | XA209     | 59  |       |             | 16B  | 9     |            | K0217A | 01     | K0217A   | 00   | 1      | TQ2              | C4    |                     | 19B                | (OFR 02)(DATA BI   |        |
| 04398   |        | XA211     | 40  |        | XA212     | 41  |       |             | 16B  | 9     |            | KOR120 | 08     | K0116A   | 01   | 1      | TQ2              | C1    |                     | 19A                | OFR ADDRESS 01 -   |        |
| 04397   |        | XA211     | 41  |        | XA211     | 40  |       |             | 16B  | 9     |            | KOR120 | 07     | K0119A   | 01   | 1      | TQ2              | D3    |                     | 22B                | OFR ADDRESS 01 -   |        |
| 11867   |        | XA211     | 42  |        | XA211     | 34  |       |             | 16B  | 9     |            | TD16C0 | 02     | K0116A   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 11975   |        | XA211     | 43  |        | XA211     | 47  |       |             | 16B  | 9     |            | TD19C0 | 02     | K0119A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02060   |        | XA211     | 44  |        |           |     |       |             |      |       |            | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 04488   |        | XA211     | 45  |        |           |     |       |             |      |       |            | K0119A | 02     | K0119A   | 00   | 1      | TQ2              | D3    |                     | 24B                | (OFR 01)(DATA BI   |        |
| 04550   |        | XA211     | 46  |        |           |     |       |             |      |       |            | K0218A | 02     | K0218A   | 00   | 1      | TQ2              | D2    |                     | 21A                | (OFR 02)(DATA BI   |        |
| 11976   |        | XA211     | 47  |        | XA226     | 53  |       |             | 16B  | 9     |            | TD19C0 | 03     | K0219A   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 11944   |        | XA211     | 48  |        | XA211     | 56  |       |             | 16B  | 9     |            | TD18C0 | 06     | K0218A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 04435   |        | XA211     | 49  |        | XA210     | 50  |       |             | 16B  | 9     |            | KOR220 | 10     | K0219A   | 01   | 2      | TQ2              | D4    |                     | 26B                | OFR ADDRESS 02 -   |        |
| 04434   |        | XA211     | 50  |        | XA211     | 49  |       |             | 16B  | 9     |            | KOR220 | 09     | K0218A   | 01   | 2      | TQ2              | D2    |                     | 23A                | OFR ADDRESS 02 -   |        |
| 04551   |        | XA211     | 51  |        | XA209     | 72  |       |             | 16B  | 9     |            | K0219A | 01     | K0219A   | 00   | 1      | TQ2              | D4    |                     | 27B                | (OFR 02)(DATA BI   |        |
| 04485   |        | XA211     | 52  |        | XA210     | 73  |       |             | 16B  | 9     |            | K0118A | 01     | K0118A   | 00   | 1      | TQ2              | D1    |                     | 24A                | (OFR 01)(DATA BI   |        |
| 04412   |        | XA211     | 53  |        | XA210     | 54  |       |             | 16B  | 9     |            | KOR130 | 11     | K0121A   | 01   | 1      | TQ2              | E3    |                     | 28B                | OFR ADDRESS 01 -   |        |
| 04411   |        | XA211     | 54  |        | XA211     | 53  |       |             | 16B  | 9     |            | KOR130 | 10     | K0118A   | 01   | 1      | TQ2              | D1    |                     | 25A                | OFR ADDRESS 01 -   |        |
| 12043   |        | XA211     | 55  |        | XA416     | 73  |       |             | 16B  | 9     |            | TD21C0 | 03     | K0121A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 11945   |        | XA211     | 56  |        |           |     |       |             |      |       |            | TD18C0 | 07     | K0118A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 04492   |        | XA211     | 57  |        |           |     |       |             |      |       |            | K0121A | 02     | K0121A   | 00   | 1      | TQ2              | E3    |                     | 30B                | (OFR 01)(DATA BI   |        |
| 02061   |        | XA211     | 58  |        |           |     |       |             |      |       |            | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 12042   |        | XA211     | 59  |        | XA211     | 55  |       |             | 16B  | 9     |            | TD21C0 | 02     | K0221A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 04554   |        | XA211     | 60  |        |           |     |       |             |      |       |            | K0220A | 02     | K0220A   | 00   | 1      | TQ2              | E2    |                     | 28A                | (OFR 02)(DATA BI   |        |
| CONNECTOR (XA211) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |            |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA211  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 108

| RECORD NUMBER                                   | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04442   |        | XA211     | 61  |      | XA212  | 64        |     |      |             | 16B  | 9     |       | KOR230 | 05     | K0221A   | 01   | 2      | TQ2              | E4    |                     | 32B                | OFR ADDRESS 02 -   |        |
| 12007   |        | XA211     | 62  |      | XA211  | 70        |     |      |             | 16B  | 9     |       | TD20C0 | 02     | K0220A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 04556   |        | XA211     | 63  |      |        |           |     |      |             |      |       |       | K0221A | 02     | K0221A   | 00   | 1      | TQ2              | E4    |                     | 33B                | (OFR 02)(DATA BI   |        |
| 04444   |        | XA211     | 64  |      | XA212  | 61        |     |      |             | 16B  | 9     |       | KOR230 | 07     | K0220A   | 01   | 2      | TQ2              | E2    |                     | 30A                | OFR ADDRESS 02 -   |        |
| 04405   |        | XA211     | 65  |      | XA212  | 65        |     |      |             | 16B  | 9     |       | KOR130 | 04     | K0123A   | 01   | 1      | TQ2              | F3    |                     | 34B                | OFR ADDRESS 01 -   |        |
| 04489   |        | XA211     | 66  |      | XA210  | 76        |     |      |             | 16B  | 9     |       | K0120A | 01     | K0120A   | 00   | 1      | TQ2              | E1    |                     | 31A                | (OFR 01)(DATA BI   |        |
| 02062   |        | XA211     | 67  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 04407   |        | XA211     | 68  |      | XA212  | 68        |     |      |             | 16B  | 9     |       | KOR130 | 06     | K0120A   | 01   | 1      | TQ2              | E1    |                     | 32A                | OFR ADDRESS 01 -   |        |
| 04496   |        | XA211     | 69  |      |        |           |     |      |             |      |       |       | K0123A | 02     | K0123A   | 00   | 1      | TQ2              | F3    |                     | 35A                | (OFR 01)(DATA BI   |        |
| 12008   |        | XA211     | 70  |      | XA416  | 71        |     |      |             | 16B  | 9     |       | TD20C0 | 03     | K0120A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    | B05    |
| 12078   |        | XA211     | 71  |      | XA211  | 79        |     |      |             | 16B  | 9     |       | TD22C0 | 02     | K0222A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 04557   |        | XA211     | 72  |      | XA309  | 61        |     |      |             | 16B  | 9     |       | K0222A | 01     | K0222A   | 00   | 1      | TQ2              | F2    |                     | 34A                | (OFR 02)(DATA BI   |        |
| 04441   |        | XA211     | 73  |      | XA211  | 61        |     |      |             | 16B  | 9     |       | KOR230 | 04     | K0222A   | 01   | 2      | TQ2              | F2    |                     | 36B                | OFR ADDRESS 02 -   |        |
| 12115   |        | XA211     | 74  |      |        |           |     |      |             |      |       |       | TD23C0 | 03     | K0123A   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 04493   |        | XA211     | 75  |      | XA308  | 64        |     |      |             | 16B  | 9     |       | K0122A | 01     | K0122A   | 00   | 1      | TQ2              | F1    |                     | 37B                | (OFR 01)(DATA BI   |        |
| 12114   |        | XA211     | 76  |      | XA211  | 74        |     |      |             | 16B  | 9     |       | TD23C0 | 02     | K0223A   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 04404   |        | XA211     | 77  |      | XA211  | 65        |     |      |             | 16B  | 9     |       | KOR130 | 03     | K0122A   | 01   | 1      | TQ2              | F1    |                     | 38B                | OFR ADDRESS 01 -   |        |
| 04439   |        | XA211     | 78  |      | XA212  | 73        |     |      |             | 16B  | 9     |       | KOR230 | 02     | K0223A   | 01   | 2      | TQ2              | F4    |                     | 38A                | OFR ADDRESS 02 -   |        |
| 12079   |        | XA211     | 79  |      | XA416  | 74        |     |      |             | 16B  | 9     |       | TD22C0 | 03     | K0122A   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 04560   |        | XA211     | 80  |      |        |           |     |      |             |      |       |       | K0223A | 02     | K0223A   | 00   | 1      | TQ2              | F4    |                     | 39A                | (OFR 02)(DATA BI   |        |
| 04513   |        | XA212     | 01  |      | XA209  | 08        |     |      |             | 16B  | 9     |       | K0200A | 01     | K0200A   | 00   | 1      | TQ2              | A2    |                     | 02B                | (OFR 02)(DATA BI   |        |
| 02063   |        | XA212     | 02  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 04388   |        | XA212     | 03  |      | XA212  | 08        |     |      |             | 16B  | 9     |       | KOR110 | 10     | K0101A   | 01   | 1      | TQ2              | A3    |                     | 02A                | OFR ADDRESS 01 -   |        |
| 11302   |        | XA212     | 04  |      | XA226  | 03        |     |      |             | 16B  | 9     |       | TD00C0 | 02     | K0200A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 04419   |        | XA212     | 05  |      | XA212  | 13        |     |      |             | 16B  | 9     |       | KOR210 | 06     | K0200A   | 01   | 2      | TQ2              | A2    |                     | 03B                | OFR ADDRESS 02 -   |        |
| 04450   |        | XA212     | 06  |      |        |           |     |      |             |      |       |       | K0100A | 02     | K0100A   | 00   | 1      | TQ2              | A1    |                     | 05A                | (OFR 01)(DATA BI   |        |
| 11345   |        | XA212     | 07  |      | XA226  | 01        |     |      |             | 16B  | 9     |       | TD01C0 | 02     | K0101A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 04389   |        | XA212     | 08  |      | XA335  | 15        |     |      |             | 16B  | 9     |       | KOR110 | 11     | K0100A   | 01   | 1      | TQ2              | A1    |                     | 06A                | OFR ADDRESS 01 -   |        |
| 04451   |        | XA212     | 09  |      | XA108  | 71        |     |      |             | 16B  | 9     |       | K0101A | 01     | K0101A   | 00   | 1      | TQ2              | A3    |                     | 04B                | (OFR 01)(DATA BI   |        |
| 11301   |        | XA212     | 10  |      | XA212  | 04        |     |      |             | 16B  | 9     |       | TD00C0 | 01     | K0100A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 11344   |        | XA212     | 11  |      | XA212  | 07        |     |      |             | 16B  | 9     |       | TD01C0 | 01     | K0201A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00390   |        | XA212     | 12  |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 04420   |        | XA212     | 13  |      | XA211  | 13        |     |      |             | 16B  | 9     |       | KOR210 | 07     | K0201A   | 01   | 2      | TQ2              | A4    |                     | 06B                | OFR ADDRESS 02 -   |        |
| 04517   |        | XA212     | 14  |      | XA209  | 13        |     |      |             | 16B  | 9     |       | K0202A | 01     | K0202A   | 00   | 1      | TQ2              | B2    |                     | 09A                | (OFR 02)(DATA BI   |        |
| 04516   |        | XA212     | 15  |      |        |           |     |      |             |      |       |       | K0201A | 02     | K0201A   | 00   | 1      | TQ2              | A4    |                     | 07B                | (OFR 02)(DATA BI   |        |
| 02064   |        | XA212     | 16  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 04383   |        | XA212     | 17  |      | XA211  | 08        |     |      |             | 16B  | 9     |       | KOR110 | 05     | K0103A   | 01   | 1      | TQ2              | B3    |                     | 08B                | OFR ADDRESS 01 -   |        |
| 11385   |        | XA212     | 18  |      | XA226  | 18        |     |      |             | 16B  | 9     |       | TD02C0 | 02     | K0202A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 11431   |        | XA212     | 19  |      | XA226  | 14        |     |      |             | 16B  | 9     |       | TD03C0 | 02     | K0103A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 04424   |        | XA212     | 20  |      | XA225  | 27        |     |      |             | 16B  | 9     |       | KOR210 | 11     | K0202A   | 01   | 2      | TQ2              | B2    |                     | 11A                | OFR ADDRESS 02 -   |        |
| 04456   |        | XA212     | 21  |      |        |           |     |      |             |      |       |       | K0103A | 02     | K0103A   | 00   | 1      | TQ2              | B3    |                     | 10B                | (OFR 01)(DATA BI   |        |
| 04454   |        | XA212     | 22  |      |        |           |     |      |             |      |       |       | K0102A | 02     | K0102A   | 00   | 1      | TQ2              | B1    |                     | 12A                | (OFR 01)(DATA BI   |        |
| 11430   |        | XA212     | 23  |      | XA212  | 19        |     |      |             | 16B  | 9     |       | TD03C0 | 01     | K0203A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 04392   |        | XA212     | 24  |      | XA211  | 24        |     |      |             | 16B  | 9     |       | KOR120 | 02     | K0102A   | 01   | 1      | TQ2              | B1    |                     | 13A                | OFR ADDRESS 01 -   |        |
| 04427   |        | XA212     | 25  |      | XA210  | 25        |     |      |             | 16B  | 9     |       | KOR220 | 02     | K0203A   | 01   | 2      | TQ2              | B4    |                     | 12B                | OFR ADDRESS 02 -   |        |
| 11384   |        | XA212     | 26  |      | XA212  | 18        |     |      |             | 16B  | 9     |       | TD02C0 | 01     | K0102A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 04520   |        | XA212     | 27  |      |        |           |     |      |             |      |       |       | K0203A | 02     | K0203A   | 00   | 1      | TQ2              | B4    |                     | 13B                | (OFR 02)(DATA BI   |        |
| 00391   |        | XA212     | 28  |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| CONNECTOR XA212 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA212  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 109

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |     | SIGNAL DESCRIPTION | ECO NO                               |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|-------------|-----|--------------------|--------------------------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |        |                  |       |                     | AND         | OR  |                    |                                      |
| 04394   |        | XA212     | 29  |        | XA211     | 29  |             |      |       |       |        | KOR120 | 04       | KO105A | 01     | 1                | TQ2   | C3                  |             | 14B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 04521   |        | XA212     | 30  |        | XA307     | 03  |             |      |       |       |        | KO204A | 01       | KO204A | 00     | 1                | TQ2   | C2                  |             | 15A |                    |                                      |
| 11503   |        | XA212     | 31  |        | XA226     | 30  |             |      |       |       |        | TD05C0 | 02       | KO105A | 01     | 2                | TQ2   | C3                  |             | 15B |                    | OFR 01)(DATA BI                      |
| 02065   |        | XA212     | 32  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  |       |                     |             | 20B |                    |                                      |
| 04459   |        | XA212     | 33  |        | XA306     | 09  |             |      |       |       |        | KO105A | 01       | KO105A | 00     | 1                | TQ2   | C3                  |             | 16B |                    | OFR ADDRESS 02 -<br>(OFR 01)(DATA BI |
| 11467   |        | XA212     | 34  |        | XA226     | 34  |             |      |       |       |        | TD04C0 | 02       | KO204A | 01     | 1                | TQ2   | C2                  |             | 16A |                    |                                      |
| 11502   |        | XA212     | 35  |        | XA212     | 31  |             |      |       |       |        | TD05C0 | 01       | KO205A | 01     | 1                | TQ2   | C4                  |             | 17B |                    | OFR ADDRESS 02 -<br>(OFR 01)(DATA BI |
| 04433   |        | XA212     | 36  |        | XA211     | 50  |             |      |       |       |        | KOR220 | 08       | KO204A | 01     | 2                | TQ2   | C2                  |             | 17A |                    |                                      |
| 04431   |        | XA212     | 37  |        | XA211     | 36  |             |      |       |       |        | KOR220 | 06       | KO205A | 01     | 2                | TQ2   | C4                  |             | 18B |                    | OFR ADDRESS 02 -<br>(OFR 01)(DATA BI |
| 04458   |        | XA212     | 38  |        |           |     |             |      |       |       |        | KO104A | 02       | KO104A | 00     | 1                | TQ2   | C1                  |             | 18A |                    |                                      |
| 04524   |        | XA212     | 39  |        |           |     |             |      |       |       |        | KO205A | 02       | KO205A | 00     | 1                | TQ2   | C4                  |             | 19B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 04400   |        | XA212     | 40  |        | XA335     | 27  |             |      |       |       |        | KOR120 | 10       | KO104A | 01     | 1                | TQ2   | C1                  |             | 19A |                    |                                      |
| 04399   |        | XA212     | 41  |        | XA212     | 40  |             |      |       |       |        | KOR120 | 09       | KO107A | 01     | 1                | TQ2   | D3                  |             | 22B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 11466   |        | XA212     | 42  |        | XA212     | 34  |             |      |       |       |        | TD04C0 | 01       | KO104A | 01     | 2                | TQ2   | C1                  |             | 20A |                    |                                      |
| 11574   |        | XA212     | 43  |        | XA212     | 47  |             |      |       |       |        | TD07C0 | 01       | KO107A | 01     | 2                | TQ2   | D3                  |             | 23B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 02066   |        | XA212     | 44  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  |       |                     |             | 21B |                    |                                      |
| 04464   |        | XA212     | 45  |        |           |     |             |      |       |       |        | KO107A | 02       | KO107A | 00     | 1                | TQ2   | D3                  |             | 24B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 04526   |        | XA212     | 46  |        |           |     |             |      |       |       |        | KO206A | 02       | KO206A | 00     | 1                | TQ2   | D2                  |             | 21A |                    |                                      |
| 11575   |        | XA212     | 47  |        | XA226     | 46  |             |      |       |       |        | TD07C0 | 02       | KO207A | 01     | 1                | TQ2   | D4                  |             | 25B |                    | OFR ADDRESS 02 -<br>(OFR 01)(DATA BI |
| 11539   |        | XA212     | 48  |        | XA226     | 48  |             |      |       |       |        | TD06C0 | 02       | KO206A | 01     | 1                | TQ2   | D2                  |             | 22A |                    |                                      |
| 04446   |        | XA212     | 49  |        | XA212     | 50  |             |      |       |       |        | KOR230 | 09       | KO207A | 01     | 2                | TQ2   | D4                  |             | 26B |                    | OFR ADDRESS 02 -<br>(OFR 01)(DATA BI |
| 04447   |        | XA212     | 50  |        | XA225     | 30  |             |      |       |       |        | KOR230 | 10       | KO206A | 01     | 2                | TQ2   | D2                  |             | 23A |                    |                                      |
| 04527   |        | XA212     | 51  |        | XA209     | 70  |             |      |       |       |        | KO207A | 01       | KO207A | 00     | 1                | TQ2   | D4                  |             | 27B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 04462   |        | XA212     | 52  |        |           |     |             |      |       |       |        | KO106A | 02       | KO106A | 00     | 1                | TQ2   | D1                  |             | 24A |                    |                                      |
| 04410   |        | XA212     | 53  |        | XA211     | 54  |             |      |       |       |        | KOR130 | 09       | KO109A | 01     | 1                | TQ2   | E3                  |             | 28B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 04409   |        | XA212     | 54  |        | XA212     | 53  |             |      |       |       |        | KOR130 | 08       | KO106A | 01     | 1                | TQ2   | D1                  |             | 25A |                    |                                      |
| 11637   |        | XA212     | 55  |        | XA226     | 56  |             |      |       |       |        | TD09C0 | 02       | KO109A | 01     | 2                | TQ2   | E3                  |             | 29B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 11538   |        | XA212     | 56  |        | XA212     | 48  |             |      |       |       |        | TD06C0 | 01       | KO106A | 01     | 2                | TQ2   | D1                  |             | 26A |                    |                                      |
| 04467   |        | XA212     | 57  |        | XA306     | 14  |             |      |       |       |        | KO109A | 00       | KO109A | 00     | 1                | TQ2   | E3                  |             | 30B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 02067   |        | XA212     | 58  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  |       |                     |             | 27A |                    |                                      |
| 11636   |        | XA212     | 59  |        | XA212     | 55  |             |      |       |       |        | TD09C0 | 01       | KO209A | 01     | 1                | TQ2   | E4                  |             | 31B |                    | OFR ADDRESS 02 -<br>(OFR 01)(DATA BI |
| 04530   |        | XA212     | 60  |        |           |     |             |      |       |       |        | KO208A | 02       | KO208A | 00     | 1                | TQ2   | E2                  |             | 28A |                    |                                      |
| 04445   |        | XA212     | 61  |        | XA212     | 49  |             |      |       |       |        | KOR230 | 08       | KO209A | 01     | 2                | TQ2   | E4                  |             | 32B |                    | OFR ADDRESS 02 -<br>(OFR 01)(DATA BI |
| 11606   |        | XA212     | 62  |        | XA226     | 60  |             |      |       |       |        | TD08C0 | 02       | KO208A | 01     | 1                | TQ2   | E2                  |             | 29A |                    |                                      |
| 04531   |        | XA212     | 63  |        | XA307     | 14  |             |      |       |       |        | KO209A | 01       | KO209A | 00     | 1                | TQ2   | E4                  |             | 33B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 04443   |        | XA212     | 64  |        | XA211     | 64  |             |      |       |       |        | KOR230 | 06       | KO208A | 01     | 2                | TQ2   | E2                  |             | 30A |                    |                                      |
| 04406   |        | XA212     | 65  |        | XA211     | 68  |             |      |       |       |        | KOR130 | 05       | KO111A | 01     | 1                | TQ2   | F3                  |             | 34B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 04466   |        | XA212     | 66  |        |           |     |             |      |       |       |        | KO108A | 02       | KO108A | 00     | 1                | TQ2   | E1                  |             | 31A |                    |                                      |
| 02068   |        | XA212     | 67  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  |       |                     |             | 40A |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 04408   |        | XA212     | 68  |        | XA212     | 54  |             |      |       |       |        | KOR130 | 07       | KO108A | 01     | 1                | TQ2   | E1                  |             | 32A |                    |                                      |
| 04471   |        | XA212     | 69  |        | XA306     | 40  |             |      |       |       |        | KO111A | 01       | KO111A | 00     | 1                | TQ2   | F3                  |             | 35A |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 11605   |        | XA212     | 70  |        | XA212     | 62  |             |      |       |       |        | TD08C0 | 01       | KO108A | 01     | 2                | TQ2   | E1                  |             | 33A |                    |                                      |
| 11668   |        | XA212     | 71  |        | XA226     | 70  |             |      |       |       |        | TD10C0 | 02       | KO210A | 01     | 1                | TQ2   | F2                  |             | 36A |                    | OFR ADDRESS 02 -<br>(OFR 01)(DATA BI |
| 04534   |        | XA212     | 72  |        |           |     |             |      |       |       |        | KO210A | 02       | KO210A | 00     | 1                | TQ2   | F2                  |             | 34A |                    |                                      |
| 04440   |        | XA212     | 73  |        | XA211     | 73  |             |      |       |       |        | KOR230 | 03       | KO210A | 01     | 2                | TQ2   | F2                  |             | 36B |                    | OFR ADDRESS 02 -<br>(OFR 01)(DATA BI |
| 11701   |        | XA212     | 74  |        | XA226     | 72  |             |      |       |       |        | TD11C0 | 02       | KO111A | 01     | 2                | TQ2   | F3                  |             | 35B |                    |                                      |
| 04470   |        | XA212     | 75  |        |           |     |             |      |       |       |        | KO110A | 02       | KO110A | 00     | 1                | TQ2   | F1                  |             | 37B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 11700   |        | XA212     | 76  |        | XA212     | 74  |             |      |       |       |        | TD11C0 | 01       | KO211A | 01     | 1                | TQ2   | F4                  |             | 37A |                    |                                      |
| 04403   |        | XA212     | 77  |        | XA211     | 77  |             |      |       |       |        | KOR130 | 02       | KO110A | 01     | 1                | TQ2   | F1                  |             | 38B |                    | OFR ADDRESS 01 -<br>(OFR 02)(DATA BI |
| 04438   |        | XA212     | 78  |        | XA211     | 78  |             |      |       |       |        | KOR230 | 01       | KO211A | 01     | 2                | TQ2   | F4                  |             | 38A |                    |                                      |
| CONNECTOR XA212 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |        |        |                  |       |                     |             |     |                    |                                      |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA212  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 110

| RECORD NUMBER                                     | FROM   |                |          | SIGNAL         | SEQ NO   | EQUATION | TERM | FACTOR | CT OR CHIP TYPE | dip | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO                             |
|---|--------|----------------|----------|----------------|----------|----------|------|--------|-----------------|-----|---------------------|--------------------|--------------------|------------------------------------|
|   | PREFIX | CONNECTOR      | PIN      |                |          |          |      |        |                 |     |                     |                    |                    |                                    |
| 11667<br>04535                                    |        | XA212<br>XA212 | 79<br>80 |                |          |          |      |        |                 |     |                     |                    |                    |                                    |
|   |        |                |          | XA212<br>XA307 | 71<br>40 |          |      |        |                 |     |                     |                    | 39B<br>39A         | (OFR 02)(DATA BI                   |
| 16610<br>02069                                    |        | XA213<br>XA213 | 01<br>02 |                |          |          |      |        |                 |     |                     |                    | 02B<br>01A         | TE REG SHIFT CON                   |
| 09464<br>09459                                    |        | XA213<br>XA213 | 03<br>04 |                |          |          |      |        |                 |     |                     |                    | 03A<br>02A         | GROUP 6 BITS TD2                   |
| 16582<br>08391                                    |        | XA213<br>XA213 | 05<br>06 |                |          |          |      |        |                 |     |                     |                    | 03B<br>05A         |                                    |
| 10575<br>08396                                    |        | XA213<br>XA213 | 07<br>08 |                |          |          |      |        |                 |     |                     |                    | 04B<br>04A         | XFER CONTROL FOR<br>ADD ACK NOT    |
| 10564<br>12353                                    |        | XA213<br>XA213 | 09<br>10 |                |          |          |      |        |                 |     |                     |                    | 05B<br>06B         | PAR REG SEL TC10                   |
| 03816<br>00392                                    |        | XA213<br>XA213 | 11<br>12 |                |          |          |      |        |                 |     |                     |                    | 07A                |                                    |
| 03813<br>14688                                    |        | XA213<br>XA213 | 13<br>14 |                |          |          |      |        |                 |     |                     |                    | 06A<br>08B         | COMPUTER MALFUNC<br>CTS STATE STEP |
| 12356<br>02070                                    |        | XA213<br>XA213 | 15<br>16 |                |          |          |      |        |                 |     |                     |                    | 07B<br>20B         |                                    |
| 14686<br>04378                                    |        | XA213<br>XA213 | 17<br>18 |                |          |          |      |        |                 |     |                     |                    | 09B<br>09A         | MAINT SWITCH MSD-                  |
| 04329<br>17402                                    |        | XA213<br>XA213 | 19<br>20 |                |          |          |      |        |                 |     |                     |                    | 10B<br>10A         | SYSTEM MALFUNCTI                   |
| 04332<br>12319                                    |        | XA213<br>XA213 | 21<br>22 |                |          |          |      |        |                 |     |                     |                    | 11B<br>14A         |                                    |
| 03793<br>12316                                    |        | XA213<br>XA213 | 23<br>24 |                |          |          |      |        |                 |     |                     |                    | 12A<br>13A         | PAR REG CONSTANT                   |
| 04077<br>13287                                    |        | XA213<br>XA213 | 25<br>26 |                |          |          |      |        |                 |     |                     |                    | 11A<br>12B         | CPU MEMORY PARITY                  |
| 17334<br>00393                                    |        | XA213<br>XA213 | 27<br>28 |                |          |          |      |        |                 |     |                     |                    | 13B                |                                    |
| 20562<br>04068                                    |        | XA213<br>XA213 | 29<br>30 |                |          |          |      |        |                 |     |                     |                    | 15B<br>14B         | C01<br>C01                         |
| 04069<br>02071                                    |        | XA213<br>XA213 | 31<br>32 |                |          |          |      |        |                 |     |                     |                    | 16B<br>21B         |                                    |
| 20563<br>04065                                    |        | XA213<br>XA213 | 33<br>34 |                |          |          |      |        |                 |     |                     |                    | 17B<br>15A         |                                    |
| 05281<br>20561                                    |        | XA213<br>XA213 | 35<br>36 |                |          |          |      |        |                 |     |                     |                    | 18A<br>16A         |                                    |
| 07880<br>13866                                    |        | XA213<br>XA213 | 37<br>38 |                |          |          |      |        |                 |     |                     |                    | 17A<br>20A         |                                    |
| 09282<br>12245                                    |        | XA213<br>XA213 | 39<br>40 |                |          |          |      |        |                 |     |                     |                    | 19B<br>19A         | C01<br>KW/TW SEL CONSTA            |
| 03758<br>07881                                    |        | XA213<br>XA213 | 41<br>42 |                |          |          |      |        |                 |     |                     |                    | 23B<br>18B         | ITR CMD                            |
| 04374<br>02072                                    |        | XA213<br>XA213 | 43<br>44 |                |          |          |      |        |                 |     |                     |                    | 24B<br>27A         | MAINT SWITCH MSD                   |
| 17398<br>13465                                    |        | XA213<br>XA213 | 45<br>46 |                |          |          |      |        |                 |     |                     |                    | 25B<br>22B         | ITR CMD                            |
| CONNECTOR (XA213) CONTINUED ON THE NEXT PAGE **** |        |                |          |                |          |          |      |        |                 |     |                     |                    |                    |                                    |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA213  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 111

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SFC INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|---------------|---------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SFC  | MULTI GROUP | CODE | COLOR |               |         |        |          |             |                  |       |                     |                    |                    |        |
| 17394   |        | XA213     | 47  |        | XA318     | 47  |      |             | 16B  | 9     |               | WKML2A  | 02     | KWML20   | 01          | 1                | THI   | D2                  | 24A                |                    |        |
| 04371   |        | XA213     | 48  |        | XA233     | 76  |      |             | 16B  | 9     |               | KWML40  | 01     | KWML40   | 00          | 1                | THI   | D3                  | 21A                | MAINT SWITCH LSD   |        |
| 04370   |        | XA213     | 49  |        |           |     |      |             |      |       |               | KWML20  | 02     | KWML20   | 00          | 1                | THI   | D2                  | 23A                | MAINT SWITCH LSD   |        |
| 17395   |        | XA213     | 50  |        | XA202     | 55  |      |             | 16B  | 9     |               | WKML4A  | 01     | KWML40   | 01          | 1                | THI   | D3                  | 22A                |                    |        |
| 05285   |        | XA213     | 51  |        | XA215     | 50  |      |             | 16B  | 9     |               | SPI015  | 16     |          | 01          | 1                | THI   | D6                  | 27B                |                    |        |
| 17391   |        | XA213     | 52  |        | XA202     | 51  |      |             | 16B  | 9     |               | WKML1A  | 01     | KWML10   | 01          | 1                | THI   | D1                  | 26A                |                    |        |
| 07882   |        | XA213     | 53  |        |           |     |      |             |      |       |               | SPO     | 01     |          | 00          | 1                | THI   | D6                  | 24B                |                    |        |
| 04367   |        | XA213     | 54  |        | XA232     | 13  |      |             | 16B  | 9     |               | KWML10  | 01     | KWML10   | 00          | 1                | THI   | D1                  | 25A                | MAINT SWITCH LSD   |        |
| 10537   |        | XA213     | 55  |        | XA316     | 47  |      |             | 16B  | 9     |               | TC31BP  | 01     | TC31C0   | 01          | 1                | THI   | E4                  | 29B                |                    |        |
| 10560   |        | XA213     | 56  |        |           |     |      |             |      |       |               | TC31C0  | 05     | TC31C0   | 00          | 1                | THI   | E4                  | 28B                | TC31 UNLOAD-0      |        |
| 09257   |        | XA213     | 57  |        |           |     |      |             |      |       |               | TBS7C0  | 10     | TBS7C0   | 00          | 1                | THI   | E5                  | 30B                | BOOTSTRAP 1 AND    |        |
| 02073   |        | XA213     | 58  |        |           |     |      |             |      |       |               | GND     | 01     |          |             |                  | THI   |                     | 40A                |                    |        |
| 09247   |        | XA213     | 59  |        |           |     |      |             |      |       |               | TBS7CA  | 02     | TBS7C0   | 01          | 1                | THI   | E5                  | 31B                |                    |        |
| 10555   |        | XA213     | 60  |        |           |     |      |             |      |       |               | TC31CA  | 02     | TC31CA   | 00          | 1                | THI   | E3                  | 28A                | TC BIT 31* UNLOA   |        |
| 09177   |        | XA213     | 61  |        | XA349     | 06  |      |             | 16B  | 9     |               | TBST1Q  | 05     | TBST1A   | 01          | 1                | THI   | E2                  | 31A                |                    |        |
| 10547   |        | XA213     | 62  |        | XA316     | 43  |      |             | 16B  | 9     |               | TC31BQ  | 02     | TC31CA   | 01          | 1                | THI   | E3                  | 29A                |                    |        |
| 09160   |        | XA213     | 63  |        | XA137     | 46  |      |             | 16B  | 9     |               | TBST1A  | 02     | TBST1A   | 00          | 1                | THI   | E2                  | 30A                | BOOTSTRAP 1 UNLO05 |        |
| 20217   |        | XA213     | 64  |        | XA326     | 26  |      |             | 16B  | 9     |               | YSN2CTX | 04     | TSN2AA   | 01          | 1                | THI   | E1                  | 33A                |                    |        |
| 14984   |        | XA213     | 65  |        | XA309     | 50  |      |             | 16B  | 9     |               | TQBD0A  | 01     | TQBD00   | 01          | 1                | THI   | E6                  | 33B                |                    |        |
| 15630   |        | XA213     | 66  |        |           |     |      |             |      |       |               | TSN2AA  | 02     | TSN2AA   | 00          | 1                | THI   | E1                  | 32A                | MEM SYNC 2         |        |
| 02074   |        | XA213     | 67  |        |           |     |      |             |      |       |               | GND     | 01     |          |             |                  | THI   |                     |                    |                    |        |
| 14990   |        | XA213     | 68  |        |           |     |      |             |      |       |               | TQBD00  | 05     | TQBD00   | 00          | 1                | THI   | E6                  | 32B                | Q BIT POST PARTI   |        |
| 15006   |        | XA213     | 69  |        |           |     |      |             |      |       |               | TQBD3A  | 02     | TQBD30   | 01          | 1                | THI   | F3                  | 35B                |                    |        |
| 15011   |        | XA213     | 70  |        |           |     |      |             |      |       |               | TQBD30  | 05     | TQBD30   | 00          | 1                | THI   | F3                  | 34B                | Q BIT POST PARTI   |        |
| 15004   |        | XA213     | 71  |        |           |     |      |             |      |       |               | TQBD20  | 05     | TQBD20   | 00          | 1                | THI   | F2                  | 36B                | Q BIT POST PARTI   |        |
| 15018   |        | XA213     | 72  |        |           |     |      |             |      |       |               | TQBD40  | 05     | TQBD40   | 00          | 1                | THI   | F4                  | 34A                | Q BIT POST PARTI   |        |
| 14999   |        | XA213     | 73  |        |           |     |      |             |      |       |               | TQBD2A  | 02     | TQBD20   | 01          | 1                | THI   | F2                  | 37B                |                    |        |
| 15013   |        | XA213     | 74  |        |           |     |      |             |      |       |               | TQBD4A  | 02     | TQBD40   | 01          | 1                | THI   | F4                  | 35A                |                    |        |
| 15027   |        | XA213     | 75  |        |           |     |      |             |      |       |               | TQBD6A  | 02     | TQBD60   | 01          | 1                | THI   | F6                  | 39A                |                    |        |
| 15020   |        | XA213     | 76  |        |           |     |      |             |      |       |               | TQBD5A  | 02     | TQBD50   | 01          | 1                | THI   | F5                  | 37A                |                    |        |
| 15032   |        | XA213     | 77  |        |           |     |      |             |      |       |               | TQBD60  | 05     | TQBD60   | 00          | 1                | THI   | F6                  | 38A                | Q BIT POST PARTI   |        |
| 15025   |        | XA213     | 78  |        |           |     |      |             |      |       |               | TQBD50  | 05     | TQBD50   | 00          | 1                | THI   | F5                  | 36A                | Q BIT POST PARTI   |        |
| 14992   |        | XA213     | 79  |        |           |     |      |             |      |       |               | TQBD1A  | 02     | TQBD10   | 01          | 1                | THI   | F1                  | 39B                |                    |        |
| 14997   |        | XA213     | 80  |        |           |     |      |             |      |       |               | TQBD10  | 05     | TQBD10   | 00          | 1                | THI   | F1                  | 38B                | Q BIT POST PARTI   |        |
| 12161   |        | XA214     | 01  |        |           |     |      |             |      |       |               | TD242A  | 02     | TD242A   | 00          | 1                | TQ2   | A2                  | 02B                | UPDATE TC24 TO T   |        |
| 02075   |        | XA214     | 02  |        |           |     |      |             |      |       |               | GND     | 01     |          |             |                  | TQ2   |                     | 01A                |                    |        |
| 09497   |        | XA214     | 03  |        |           |     |      |             |      |       |               | TCAX40  | 04     | TD251A   | 01          | 1                | TQ2   | A3                  | 02A                |                    |        |
| 16784   |        | XA214     | 04  |        | XA316     | 69  |      |             | 16B  | 9     |               | TU24A0  | 01     | TD242A   | 01          | 1                | TQ2   | A2                  | 04A                |                    |        |
| 09449   |        | XA214     | 05  |        | XA214     | 11  |      |             | 16B  | 9     |               | TCAM40  | 01     | TD242A   | 01          | 2                | TQ2   | A2                  | 03B                |                    |        |
| 12158   |        | XA214     | 06  |        | XA216     | 13  |      |             | 16B  | 9     |               | TD241A  | 01     | TD241A   | 00          | 1                | TQ2   | A1                  | 05A                | XFER TC24 TO TD2   |        |
| 10477   |        | XA214     | 07  |        |           |     |      |             |      |       |               | TC25BQ  | 07     | TD251A   | 01          | 2                | TQ2   | A3                  | 03A                |                    |        |
| 10465   |        | XA214     | 08  |        |           |     |      |             |      |       |               | TC24BQ  | 07     | TD241A   | 01          | 1                | TQ2   | A1                  | 06A                |                    |        |
| 12196   |        | XA214     | 09  |        |           |     |      |             |      |       |               | TD251A  | 02     | TD251A   | 00          | 1                | TQ2   | A3                  | 04B                | XFER TC25 TO TD2   |        |
| 09496   |        | XA214     | 10  |        | XA214     | 03  |      |             | 16B  | 9     |               | TCAX40  | 03     | TD241A   | 01          | 2                | TQ2   | A1                  | 07A                |                    |        |
| 09450   |        | XA214     | 11  |        | XA214     | 76  |      |             | 16B  | 9     |               | TCAM40  | 02     | TD252A   | 01          | 1                | TQ2   | A4                  | 05B                |                    |        |
| 00394   |        | XA214     | 12  |        |           |     |      |             |      |       |               | +5V     | 01     |          |             |                  | TQ2   |                     |                    |                    |        |
| 10470   |        | XA214     | 13  |        |           |     |      |             |      |       |               | TC25BP  | 05     | TD252A   | 01          | 2                | TQ2   | A4                  | 06B                |                    |        |
| 12235   |        | XA214     | 14  |        |           |     |      |             |      |       |               | TD262A  | 02     | TD262A   | 00          | 1                | TQ2   | B2                  | 09A                | UPDATE TC26 TO T   |        |
| CONNECTOR XA214 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |               |         |        |          |             |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XAXA214  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 112

| RECORD NUMBER | FROM   |           |                                 |    | TO     |           |     |    | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO           |       |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|----|------|-------------|------|-------|--------|--------|----------|--------|-------------------|-------|---------------------|--------------------|--------------------|------------------|-------|
|               | PREFIX | CONNECTOR | PIN                             | IS | PREFIX | CONNECTOR | PIN | IS | SIZE | MULTI GROUP | CODE | COLOR |        |        |          |        |                   |       |                     |                    |                    |                  | IDENT |
| 12197         |        | XA214     | 15                              |    | XA215  | 13        |     |    |      |             | 16B  | 9     |        | TD252A | 01       | TD252A | 00                | 1     | TQ2                 | A4                 | 07B                | UPDATE TC25 TO T |       |
| 02076         |        | XA214     | 16                              |    |        |           |     |    |      |             |      |       |        | GND    | 01       |        |                   |       | TQ2                 |                    | 01B                |                  |       |
| 09498         |        | XA214     | 17                              |    | XA214  | 24        |     |    |      |             | 16B  | 9     |        | TCAX50 | 01       | TD271A | 01                | 1     | TQ2                 | B3                 | 08B                |                  |       |
| 16790         |        | XA214     | 18                              |    | XA316  | 80        |     |    |      |             | 16B  | 9     |        | TU26A0 | 01       | TD262A | 01                | 1     | TQ2                 | B2                 | 10A                |                  |       |
| 10491         |        | XA214     | 19                              |    | XA221  | 74        |     |    |      |             | 16B  | 9     |        | TC278Q | 01       | TD271A | 01                | 2     | TQ2                 | B3                 | 09B                |                  |       |
| 09455         |        | XA214     | 20                              |    | XA214  | 23        |     |    |      |             | 16B  | 9     |        | TCAM50 | 01       | TD262A | 01                | 2     | TQ2                 | B2                 | 11A                |                  |       |
| 12272         |        | XA214     | 21                              |    |        |           |     |    |      |             |      |       |        | TD271A | 02       | TD271A | 00                | 1     | TQ2                 | B3                 | 10B                | XFER TC27 TO TD2 |       |
| 12232         |        | XA214     | 22                              |    | XA216  | 19        |     |    |      |             | 16B  | 9     |        | TD261A | 01       | TD261A | 00                | 1     | TQ2                 | B1                 | 12A                | XFER TC26 TO TD2 |       |
| 09456         |        | XA214     | 23                              |    | XA214  | 36        |     |    |      |             | 16B  | 9     |        | TCAM50 | 02       | TD272A | 01                | 1     | TQ2                 | B4                 | 11B                |                  |       |
| 09499         |        | XA214     | 24                              |    | XA214  | 40        |     |    |      |             | 16B  | 9     |        | TCAX50 | 02       | TD261A | 01                | 1     | TQ2                 | B1                 | 13A                |                  |       |
| 16795         |        | XA214     | 25                              |    |        |           |     |    |      |             |      |       |        | TU27A0 | 02       | TD272A | 01                | 2     | TQ2                 | B4                 | 12B                |                  |       |
| 10486         |        | XA214     | 26                              |    |        |           |     |    |      |             |      |       |        | TC268Q | 05       | TD261A | 01                | 2     | TQ2                 | B1                 | 14A                |                  |       |
| 12274         |        | XA214     | 27                              |    |        |           |     |    |      |             |      |       |        | TD272A | 02       | TD272A | 00                | 1     | TQ2                 | B4                 | 13B                | UPDATE TC27 TO T |       |
| 00395         |        | XA214     | 28                              |    |        |           |     |    |      |             |      |       |        | +5V    | 01       |        |                   |       | TQ2                 |                    |                    |                  |       |
| 09505         |        | XA214     | 29                              |    |        |           |     |    |      |             |      |       |        | TCAX60 | 04       | TD291A | 01                | 1     | TQ2                 | C3                 | 14B                |                  |       |
| 12309         |        | XA214     | 30                              |    |        |           |     |    |      |             |      |       |        | TD282A | 02       | TD282A | 00                | 1     | TQ2                 | C2                 | 15A                | UPDATE TC28 TO T |       |
| 10514         |        | XA214     | 31                              |    | XA316  | 29        |     |    |      |             | 16B  | 9     |        | TC298Q | 01       | TD291A | 01                | 2     | TQ2                 | C3                 | 15B                |                  |       |
| 02077         |        | XA214     | 32                              |    |        |           |     |    |      |             |      |       |        | GND    | 01       |        |                   |       | TQ2                 |                    | 20B                |                  |       |
| 12341         |        | XA214     | 33                              |    | XA215  | 42        |     |    |      |             | 16B  | 9     |        | TD291A | 01       | TD291A | 00                | 1     | TQ2                 | C3                 | 16B                | XFER TC29 TO TD2 |       |
| 10502         |        | XA214     | 34                              |    |        |           |     |    |      |             |      |       |        | TC288P | 05       | TD282A | 01                | 1     | TQ2                 | C2                 | 16A                |                  |       |
| 09463         |        | XA214     | 35                              |    | XA213  | 03        |     |    |      |             | 16B  | 9     |        | TCAM60 | 03       | TD292A | 01                | 1     | TQ2                 | C4                 | 17B                |                  |       |
| 09457         |        | XA214     | 36                              |    | XA324  | 46        |     |    |      |             | 16B  | 9     |        | TCAM50 | 03       | TD282A | 01                | 2     | TQ2                 | C2                 | 17A                |                  |       |
| 16801         |        | XA214     | 37                              |    |        |           |     |    |      |             |      |       |        | TU29A0 | 02       | TD292A | 01                | 2     | TQ2                 | C4                 | 18B                |                  |       |
| 12306         |        | XA214     | 38                              |    | XA216  | 42        |     |    |      |             | 16B  | 9     |        | TD281A | 01       | TD281A | 00                | 1     | TQ2                 | C1                 | 18A                | XFER TC28 TO TD2 |       |
| 12343         |        | XA214     | 39                              |    | XA215  | 30        |     |    |      |             | 16B  | 9     |        | TD292A | 01       | TD292A | 00                | 1     | TQ2                 | C4                 | 19B                | UPDATE TC29 TO T |       |
| 09500         |        | XA214     | 40                              |    | XA315  | 27        |     |    |      |             | 16B  | 9     |        | TCAX50 | 03       | TD281A | 01                | 1     | TQ2                 | C1                 | 19A                |                  |       |
| 05254         |        | XA214     | 41                              |    | XA206  | 11        |     |    |      |             | 16B  | 9     |        | TAVEBP | 01       | TK0910 | 01                | 1     | TQ2                 | D3                 | 22B                |                  | C01   |
| 10509         |        | XA214     | 42                              |    |        |           |     |    |      |             |      |       |        | TC288Q | 07       | TD281A | 01                | 2     | TQ2                 | C1                 | 20A                |                  |       |
| 05283         |        | XA214     | 43                              |    | XA219  | 65        |     |    |      |             | 16B  | 9     |        | TRTCOA | 022      | TK0910 | 01                | 2     | TQ2                 | D3                 | 23B                |                  | C01   |
| 02078         |        | XA214     | 44                              |    |        |           |     |    |      |             |      |       |        | GND    | 01       |        |                   |       | TQ2                 |                    | 21B                |                  |       |
| 07883         |        | XA214     | 45                              |    |        |           |     |    |      |             |      |       |        | TK0910 | 02       | TK0910 | 00                | 1     | TQ2                 | D3                 | 24B                |                  | C01   |
| 12414         |        | XA214     | 46                              |    | XA215  | 54        |     |    |      |             | 16B  | 9     |        | TD311A | 01       | TD311A | 00                | 1     | TQ2                 | D2                 | 21A                | XFER TC31 TO TD3 |       |
| 05284         |        | XA214     | 47                              |    | XA213  | 51        |     |    |      |             | 16B  | 9     |        | SPI015 | 15       |        |                   |       | TQ2                 | D4                 | 25B                |                  |       |
| 09504         |        | XA214     | 48                              |    | XA214  | 29        |     |    |      |             | 16B  | 9     |        | TCAX60 | 03       | TD311A | 01                | 1     | TQ2                 | D2                 | 22A                |                  |       |
| 05253         |        | XA214     | 49                              |    | XA210  | 42        |     |    |      |             | 16B  | 9     |        | SPI014 | 16       |        |                   |       | TQ2                 | D4                 | 26B                |                  | C01   |
| 10546         |        | XA214     | 50                              |    | XA213  | 62        |     |    |      |             | 16B  | 9     |        | TC318Q | 01       | TD311A | 01                | 2     | TQ2                 | D2                 | 23A                |                  |       |
| 07884         |        | XA214     | 51                              |    |        |           |     |    |      |             |      |       |        | SPO    | 01       |        |                   |       | TQ2                 | D4                 | 27B                |                  |       |
| 12378         |        | XA214     | 52                              |    | XA216  | 56        |     |    |      |             | 16B  | 9     |        | TD301A | 01       | TD301A | 00                | 1     | TQ2                 | D1                 | 24A                | XFER TC30 TO TD3 |       |
| 09490         |        | XA214     | 53                              |    | XA214  | 68        |     |    |      |             | 16B  | 9     |        | TCAX30 | 01       | TD211A | 01                | 1     | TQ2                 | E3                 | 28B                |                  |       |
| 10528         |        | XA214     | 54                              |    | XA316  | 54        |     |    |      |             | 16B  | 9     |        | TC308Q | 01       | TD301A | 01                | 1     | TQ2                 | D1                 | 25A                |                  |       |
| 10418         |        | XA214     | 55                              |    | XA315  | 65        |     |    |      |             | 16B  | 9     |        | TC218Q | 01       | TD211A | 01                | 2     | TQ2                 | E3                 | 29B                |                  |       |
| 09503         |        | XA214     | 56                              |    | XA214  | 48        |     |    |      |             | 16B  | 9     |        | TCAX60 | 02       | TD301A | 01                | 2     | TQ2                 | D1                 | 26A                |                  |       |
| 12052         |        | XA214     | 57                              |    | XA221  | 56        |     |    |      |             | 16B  | 9     |        | TD211A | 01       | TD211A | 00                | 1     | TQ2                 | E3                 | 30B                | XFER TC21 TO TD2 |       |
| 02079         |        | XA214     | 58                              |    |        |           |     |    |      |             |      |       |        | GND    | 01       |        |                   |       | TQ2                 |                    | 27A                |                  |       |
| 09443         |        | XA214     | 59                              |    | XA214  | 64        |     |    |      |             | 16B  | 9     |        | TCAM30 | 01       | TD212A | 01                | 1     | TQ2                 | E4                 | 31B                |                  |       |
| 12019         |        | XA214     | 60                              |    |        |           |     |    |      |             |      |       |        | TD202A | 02       | TD202A | 00                | 1     | TQ2                 | E2                 | 28A                | UPDATE TC20 TO T |       |
| 16774         |        | XA214     | 61                              |    | XA316  | 75        |     |    |      |             | 16B  | 9     |        | TU21A0 | 01       | TD212A | 01                | 2     | TQ2                 | E4                 | 32B                |                  |       |
| 16765         |        | XA214     | 62                              |    | XA316  | 63        |     |    |      |             | 16B  | 9     |        | TU20A0 | 01       | TD202A | 01                | 1     | TQ2                 | E2                 | 29A                |                  |       |
| 12055         |        | XA214     | 63                              |    |        |           |     |    |      |             |      |       |        | TD212A | 02       | TD212A | 00                | 1     | TQ2                 | E4                 | 33B                | UPDATE TC21 TO T |       |
| 09444         |        | XA214     | 64                              |    | XA214  | 73        |     |    |      |             | 16B  | 9     |        | TCAM30 | 02       | TD202A | 01                | 2     | TQ2                 | E2                 | 30A                |                  |       |
| CONNECTOR     |        | XA214     | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |    |      |             |      |       |        |        |          |        |                   |       |                     |                    |                    |                  |       |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XAXA214  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 113

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST. MISC. | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |  |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|-----------------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|--|
|   | PREFIX | CONNECTOR | PIN | SNFC | PREFIX | CONNECTOR | PIN | SNFC | MULTI GROUP | CODE | COLOR | IDENT |                 |        |        |          |             |                  |       |                     |                    |                    |        |  |
| 09495   |        | XA214     | 65  |      | XA214  | 10        |     |      |             | 16B  | 9     |       | TCAX40          | 02     | TD231A | 01       | 1           | TQ2              | F3    |                     | 34B                |                    |        |  |
| 12016   |        | XA214     | 66  |      | XA222  | 70        |     |      |             | 16B  | 9     |       | TD201A          | 01     | TD201A | 00       | 1           | TQ2              | E1    |                     | 31A                | XFER TC20 TO TD2   |        |  |
| 02080   |        | XA214     | 67  |      |        |           |     |      |             |      |       |       | GND             | 01     |        |          |             | TQ2              |       |                     | 40A                |                    |        |  |
| 09491   |        | XA214     | 68  |      | XA214  | 77        |     |      |             | 16B  | 9     |       | TCAX30          | 02     | TD201A | 01       | 1           | TQ2              | E1    |                     | 32A                |                    |        |  |
| 12123   |        | XA214     | 69  |      | XA221  | 68        |     |      |             | 16B  | 9     |       | TD231A          | 01     | TD231A | 00       | 1           | TQ2              | F3    |                     | 35A                | XFER TC23 TO TD2   |        |  |
| 10407   |        | XA214     | 70  |      | XA320  | 64        |     |      |             | 16B  | 9     |       | TC20BQ          | 03     | TD201A | 01       | 2           | TQ2              | E1    |                     | 33A                |                    |        |  |
| 10432   |        | XA214     | 71  |      |        |           |     |      |             |      |       |       | TC22BP          | 08     | TD222A | 01       | 1           | TQ2              | F2    |                     | 34A                |                    |        |  |
| 12091   |        | XA214     | 72  |      |        |           |     |      |             |      |       |       | TD222A          | 02     | TD222A | 00       | 1           | TQ2              | F2    |                     | 34A                | UPDATE TC22 TO T   |        |  |
| 09445   |        | XA214     | 73  |      | XA324  | 49        |     |      |             | 16B  | 9     |       | TCAM30          | 03     | TD222A | 01       | 2           | TQ2              | F2    |                     | 36B                |                    |        |  |
| 10447   |        | XA214     | 74  |      | XA315  | 41        |     |      |             | 16B  | 9     |       | TC23BQ          | 01     | TD231A | 01       | 2           | TQ2              | F3    |                     | 35B                |                    |        |  |
| 12088   |        | XA214     | 75  |      | XA222  | 79        |     |      |             | 16B  | 9     |       | TD221A          | 01     | TD221A | 00       | 1           | TQ2              | F1    |                     | 37B                | XFER TC22 TO TD2   |        |  |
| 09451   |        | XA214     | 76  |      | XA324  | 48        |     |      |             | 16B  | 9     |       | TCAM40          | 03     | TD232A | 01       | 1           | TQ2              | F4    |                     | 37A                |                    |        |  |
| 09492   |        | XA214     | 77  |      | XA315  | 20        |     |      |             | 16B  | 9     |       | TCAX30          | 03     | TD221A | 01       | 1           | TQ2              | F1    |                     | 38B                |                    |        |  |
| 16780   |        | XA214     | 78  |      | XA316  | 72        |     |      |             | 16B  | 9     |       | TU23A0          | 01     | TD232A | 01       | 2           | TQ2              | F4    |                     | 38A                |                    |        |  |
| 10439   |        | XA214     | 79  |      |        |           |     |      |             |      |       |       | TC22BQ          | 07     | TD221A | 01       | 2           | TQ2              | F1    |                     | 39B                |                    |        |  |
| 12126   |        | XA214     | 80  |      |        |           |     |      |             |      |       |       | TD232A          | 02     | TD232A | 00       | 1           | TQ2              | F4    |                     | 39A                | UPDATE TC23 TO T   |        |  |
| 12208   |        | XA215     | 01  |      |        |           |     |      |             |      |       |       | TD258A          | 02     | TD2500 | 01       | 1           | TS8              | A1    |                     | 02B                |                    |        |  |
| 02081   |        | XA215     | 02  |      |        |           |     |      |             |      |       |       | GND             | 01     |        |          |             | TS8              |       |                     | 01A                |                    |        |  |
| 00884   |        | XA215     | 03  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |             | TS8              |       |                     |                    |                    |        |  |
| 12206   |        | XA215     | 04  |      |        |           |     |      |             |      |       |       | TD257A          | 02     | TD2500 | 01       | 2           | TS8              | A1    |                     | 04A                |                    |        |  |
| 12204   |        | XA215     | 05  |      |        |           |     |      |             |      |       |       | TD256A          | 02     | TD2500 | 01       | 3           | TS8              | A1    |                     | 03B                |                    |        |  |
| 12200   |        | XA215     | 06  |      |        |           |     |      |             |      |       |       | TD253A          | 02     | TD2500 | 01       | 4           | TS8              | A1    |                     | 05A                |                    |        |  |
| 09298   |        | XA215     | 07  |      | XA216  | 04        |     |      |             | 16B  | 9     |       | SPI015          | 29     | TD2500 | 01       | 5           | TS8              | A1    |                     | 03A                |                    |        |  |
| 12201   |        | XA215     | 08  |      | XA123  | 60        |     |      |             | 16B  | 9     |       | TD254A          | 01     | TD2500 | 01       | 6           | TS8              | A1    |                     | 06A                |                    |        |  |
| 00885   |        | XA215     | 09  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |             | TS8              |       |                     |                    |                    |        |  |
| 12195   |        | XA215     | 10  |      | XA214  | 09        |     |      |             | 16B  | 9     |       | TD251A          | 01     | TD2500 | 01       | 7           | TS8              | A1    |                     | 07A                |                    |        |  |
| 12193   |        | XA215     | 11  |      | XA217  | 05        |     |      |             | 16B  | 9     |       | TD2500          | 01     | TD2500 | 00       | 1           | TS8              | A1    |                     | 05B                | TD REG BIT 25 OR   |        |  |
| 00396   |        | XA215     | 12  |      |        |           |     |      |             |      |       |       | +5V             | 01     |        |          |             | TS8              |       |                     |                    |                    |        |  |
| 12198   |        | XA215     | 13  |      |        |           |     |      |             |      |       |       | TD252A          | 02     | TD2500 | 01       | 8           | TS8              | A1    |                     | 06B                |                    |        |  |
| 05297   |        | XA215     | 14  |      | XA215  | 07        |     |      |             | 16B  | 9     |       | SPI015          | 28     | TD2700 | 01       | 1           | TS8              | B1    |                     | 09A                |                    |        |  |
| 00886   |        | XA215     | 15  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |             | TS8              |       |                     |                    |                    |        |  |
| 02082   |        | XA215     | 16  |      |        |           |     |      |             |      |       |       | GND             | 01     |        |          |             | TS8              |       |                     | 21B                |                    |        |  |
| 00887   |        | XA215     | 17  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |             | TS8              |       |                     |                    |                    |        |  |
| 12276   |        | XA215     | 18  |      |        |           |     |      |             |      |       |       | TD273A          | 02     | TD2700 | 01       | 2           | TS8              | B1    |                     | 10A                |                    |        |  |
| 12280   |        | XA215     | 19  |      |        |           |     |      |             |      |       |       | TD276A          | 02     | TD2700 | 01       | 3           | TS8              | B1    |                     | 09B                |                    |        |  |
| 12242   |        | XA215     | 20  |      | XA216  | 25        |     |      |             | 16B  | 9     |       | TD267A          | 01     | TD2700 | 01       | 4           | TS8              | B1    |                     | 11A                |                    |        |  |
| 00888   |        | XA215     | 21  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |             | TS8              |       |                     |                    |                    |        |  |
| 12282   |        | XA215     | 22  |      |        |           |     |      |             |      |       |       | TD278A          | 02     | TD2700 | 01       | 5           | TS8              | B1    |                     | 12A                |                    |        |  |
| 12269   |        | XA215     | 23  |      | XA217  | 18        |     |      |             | 16B  | 9     |       | TD2700          | 01     | TD2700 | 00       | 1           | TS8              | B1    |                     | 11B                | TD REG BIT 27 OR   |        |  |
| 12277   |        | XA215     | 24  |      | XA123  | 63        |     |      |             | 16B  | 9     |       | TD274A          | 01     | TD2700 | 01       | 6           | TS8              | B1    |                     | 13A                |                    |        |  |
| 12271   |        | XA215     | 25  |      | XA214  | 21        |     |      |             | 16B  | 9     |       | TD271A          | 01     | TD2700 | 01       | 7           | TS8              | B1    |                     | 12B                |                    |        |  |
| 12273   |        | XA215     | 26  |      | XA214  | 27        |     |      |             | 16B  | 9     |       | TD272A          | 01     | TD2700 | 01       | 8           | TS8              | B1    |                     | 14A                |                    |        |  |
| 00889   |        | XA215     | 27  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |             | TS8              |       |                     |                    |                    |        |  |
| 00397   |        | XA215     | 28  |      |        |           |     |      |             |      |       |       | +5V             | 01     |        |          |             | TS8              |       |                     |                    |                    |        |  |
| 00890   |        | XA215     | 29  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |             | TS8              |       |                     |                    |                    |        |  |
| 12344   |        | XA215     | 30  |      |        |           |     |      |             |      |       |       | TD292A          | 02     | TD2900 | 01       | 1           | TS8              | C1    |                     | 15A                |                    |        |  |
| 12346   |        | XA215     | 31  |      |        |           |     |      |             |      |       |       | TD293A          | 02     | TD2900 | 01       | 2           | TS8              | C1    |                     | 15B                |                    |        |  |
| 02083   |        | XA215     | 32  |      |        |           |     |      |             |      |       |       | GND             | 01     |        |          |             | TS8              |       |                     | 27A                |                    |        |  |
| CONNECTOR (XA215) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |                 |        |        |          |             |                  |       |                     |                    |                    |        |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA215  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 114

| RECORD NUMBER | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SFQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00891         |        | XA215     | 33  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 12350         |        | XA215     | 34  |      |        |           |     |      |             |      |       |       | T0296A | 02     | TD2900   | 01 3 | TS8    | C1               |       | 16A                 |                    |                    |        |
| 12339         |        | XA215     | 35  |      | XA217  | 34        |     |      | 168         | 9    |       |       | TD2900 | 01     | TD2900   | 00 1 | TS8    | C1               |       | 17B                 | TD REG BIT 29 OR   |                    |        |
| 12354         |        | XA215     | 36  |      |        |           |     |      |             |      |       |       | TD298A | 02     | TD2900   | 01 4 | TS8    | C1               |       | 17A                 |                    |                    |        |
| 05294         |        | XA215     | 37  |      | XA216  | 31        |     |      | 168         | 9    |       |       | SPI015 | 25     | TD2900   | 01 5 | TS8    | C1               |       | 18B                 |                    |                    |        |
| 12352         |        | XA215     | 38  |      |        |           |     |      |             |      |       |       | TD297A | 02     | TD2900   | 01 6 | TS8    | C1               |       | 18A                 |                    |                    |        |
| 00892         |        | XA215     | 39  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 12347         |        | XA215     | 40  |      | XA123  | 72        |     |      | 168         | 9    |       |       | TD294A | 01     | TD2900   | 01 7 | TS8    | C1               |       | 19A                 |                    |                    |        |
| 00893         |        | XA215     | 41  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 12342         |        | XA215     | 42  |      |        |           |     |      |             |      |       |       | TD291A | 02     | TD2900   | 01 8 | TS8    | C1               |       | 20A                 |                    |                    |        |
| 12423         |        | XA215     | 43  |      |        |           |     |      |             |      |       |       | TD316A | 02     | TD3100   | 01 1 | TS8    | D1               |       | 23B                 |                    |                    |        |
| 02084         |        | XA215     | 44  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      | TS8    |                  |       | 40A                 |                    |                    |        |
| 00894         |        | XA215     | 45  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 12419         |        | XA215     | 46  |      |        |           |     |      |             |      |       |       | TD313A | 02     | TD3100   | 01 2 | TS8    | D1               |       | 21A                 |                    |                    |        |
| 12412         |        | XA215     | 47  |      | XA217  | 48        |     |      | 168         | 9    |       |       | TD3100 | 01     | TD3100   | 00 1 | TS8    | D1               |       | 25B                 | TD REG BIT 31 OR   |                    |        |
| 04938         |        | XA215     | 48  |      | XA113  | 65        |     |      | 168         | 9    |       |       | SPI003 | 07     | TD3100   | 01 3 | TS8    | D1               |       | 22A                 |                    |                    |        |
| 05252         |        | XA215     | 49  |      | XA214  | 49        |     |      | 168         | 9    |       |       | SPI014 | 15     | TD3100   | 01 4 | TS8    | D1               |       | 26B                 |                    |                    |        |
| 05286         |        | XA215     | 50  |      | XA216  | 54        |     |      | 168         | 9    |       |       | SPI015 | 17     | TD3100   | 01 5 | TS8    | D1               |       | 23A                 |                    |                    |        |
| 00895         |        | XA215     | 51  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 12420         |        | XA215     | 52  |      | XA123  | 80        |     |      | 168         | 9    |       |       | TD314A | 01     | TD3100   | 01 6 | TS8    | D1               |       | 24A                 |                    |                    |        |
| 00896         |        | XA215     | 53  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 12415         |        | XA215     | 54  |      |        |           |     |      |             |      |       |       | TD311A | 02     | TD3100   | 01 7 | TS8    | D1               |       | 25A                 |                    |                    |        |
| 16322         |        | XA215     | 55  |      | XA116  | 36        |     |      | 168         | 9    |       |       | YS21C0 | 06     | TK150A   | 01 1 | TS8    | E1               |       | 29B                 |                    | C10                |        |
| 12417         |        | XA215     | 56  |      |        |           |     |      |             |      |       |       | TD312A | 02     | TD3100   | 01 8 | TS8    | D1               |       | 26A                 |                    |                    |        |
| 00897         |        | XA215     | 57  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 02085         |        | XA215     | 58  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 13968         |        | XA215     | 59  |      | XA308  | 46        |     |      | 168         | 9    |       |       | TK150A | 01     | TK150A   | 00 1 | TS8    | E1               |       | 31B                 | PROGRAM TIME OUT   |                    |        |
| 04937         |        | XA215     | 60  |      | XA215  | 48        |     |      | 168         | 9    |       |       | SPI003 | 06     | TK150A   | 01 2 | TS8    | E1               |       | 28A                 |                    |                    |        |
| 05251         |        | XA215     | 61  |      | XA215  | 49        |     |      | 168         | 9    |       |       | SPI014 | 14     | TK150A   | 01 3 | TS8    | E1               |       | 32B                 |                    |                    |        |
| 04993         |        | XA215     | 62  |      | XA216  | 61        |     |      | 168         | 9    |       |       | SPI004 | 28     | TK150A   | 01 4 | TS8    | E1               |       | 29A                 |                    |                    |        |
| 00898         |        | XA215     | 63  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 14115         |        | XA215     | 64  |      |        |           |     |      |             |      |       |       | TMDZA0 | 04     | TK150A   | 01 5 | TS8    | E1               |       | 30A                 |                    |                    |        |
| 00899         |        | XA215     | 65  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 09886         |        | XA215     | 66  |      | XA407  | 70        |     |      | 168         | 9    |       |       | TCSCC0 | 06     | TK150A   | 01 6 | TS8    | E1               |       | 31A                 |                    |                    |        |
| 02086         |        | XA215     | 67  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 05293         |        | XA215     | 68  |      | XA215  | 37        |     |      | 168         | 9    |       |       | SPI015 | 24     | TK150A   | 01 7 | TS8    | E1               |       | 32A                 |                    |                    |        |
| 00900         |        | XA215     | 69  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |
| 10605         |        | XA215     | 70  |      | XA115  | 62        |     |      | 168         | 9    |       |       | TDA3B0 | 03     | TK150A   | 01 8 | TS8    | E1               |       | 33A                 |                    |                    |        |
| 08447         |        | XA215     | 71  |      |        |           |     |      |             |      |       |       | TAVW3A | 02     | TAVERO   | 01 1 | TS8    | F1               |       | 36A                 |                    |                    |        |
| 08443         |        | XA215     | 72  |      |        |           |     |      |             |      |       |       | TAVW1A | 02     | TAVERO   | 01 2 | TS8    | F1               |       | 34A                 |                    |                    |        |
| 08432         |        | XA215     | 73  |      | XA309  | 07        |     |      | 168         | 9    |       |       | TAVR0A | 01     | TAVERO   | 01 3 | TS8    | F1               |       | 36B                 |                    |                    |        |
| 08435         |        | XA215     | 74  |      |        |           |     |      |             |      |       |       | TAVR1A | 02     | TAVERO   | 01 4 | TS8    | F1               |       | 35B                 |                    |                    |        |
| 08440         |        | XA215     | 75  |      | XA309  | 27        |     |      | 168         | 9    |       |       | TAVW0A | 01     | TAVERO   | 01 5 | TS8    | F1               |       | 37B                 |                    |                    |        |
| 08426         |        | XA215     | 76  |      | XA108  | 41        |     |      | 168         | 9    |       |       | TAVERO | 01     | TAVERO   | 00 1 | TS8    | F1               |       | 37A                 | ACCESS VIOLATION   |                    |        |
| 08439         |        | XA215     | 77  |      |        |           |     |      |             |      |       |       | TAVR3A | 02     | TAVERO   | 01 6 | TS8    | F1               |       | 38B                 |                    |                    |        |
| 08436         |        | XA215     | 78  |      | XA309  | 20        |     |      | 168         | 9    |       |       | TAVR2A | 01     | TAVERO   | 01 7 | TS8    | F1               |       | 38A                 |                    |                    |        |
| 08444         |        | XA215     | 79  |      | XA309  | 31        |     |      | 168         | 9    |       |       | TAVW2A | 01     | TAVERO   | 01 8 | TS8    | F1               |       | 39B                 |                    |                    |        |
| 00901         |        | XA215     | 80  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      | TS8    |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA216  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 115

| RECORD NUMBER | FROM   |           |                                 |         | TO     |           |     |         | WIRE        |      |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---------------|--------|-----------|---------------------------------|---------|--------|-----------|-----|---------|-------------|------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE NO | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR |        |        |          |        |        |                  |       |                     |                    |                    |                  |
| 12170         |        | XA216     | 01                              |         |        |           |     |         |             |      |       |        | TD248A | 01       | TD2400 | 01     | 1                | TS8   | A1                  |                    | 02B                |                  |
| 02087         |        | XA216     | 02                              |         | XA220  | 56        |     |         | 16B         | 9    |       |        | GND    | 01       |        |        |                  | TS8   |                     |                    | 01A                |                  |
| 00902         |        | XA216     | 03                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 05299         |        | XA216     | 04                              |         | XA221  | 06        |     |         | 16B         | 9    |       |        | SPI015 | 30       | TD2400 | 01     | 2                | TS8   | A1                  |                    | 04A                |                  |
| 12160         |        | XA216     | 05                              |         | XA214  | 01        |     |         | 16B         | 9    |       |        | TD242A | 01       | TD2400 | 01     | 3                | TS8   | A1                  |                    | 03B                |                  |
| 12163         |        | XA216     | 06                              |         |        |           |     |         |             |      |       |        | TD243A | 02       | TD2400 | 01     | 4                | TS8   | A1                  |                    | 05A                |                  |
| 12167         |        | XA216     | 07                              |         |        |           |     |         |             |      |       |        | TD246A | 02       | TD2400 | 01     | 5                | TS8   | A1                  |                    | 03A                |                  |
| 12164         |        | XA216     | 08                              |         | XA123  | 66        |     |         | 16B         | 9    |       |        | TD244A | 01       | TD2400 | 01     | 6                | TS8   | A1                  |                    | 06A                |                  |
| 00903         |        | XA216     | 09                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 12169         |        | XA216     | 10                              |         |        |           |     |         |             |      |       |        | TD247A | 02       | TD2400 | 01     | 7                | TS8   | A1                  |                    | 07A                |                  |
| 12156         |        | XA216     | 11                              |         | XA217  | 08        |     |         | 16B         | 9    |       |        | TD2400 | 01       | TD2400 | 00     | 1                | TS8   | A1                  |                    | 05B                | TD REG BIT 24 OR |
| 00398         |        | XA216     | 12                              |         |        |           |     |         |             |      |       |        | +5V    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 12159         |        | XA216     | 13                              |         |        |           |     |         |             |      |       |        | TD241A | 02       | TD2400 | 01     | 8                | TS8   | A1                  |                    | 06B                |                  |
| 12241         |        | XA216     | 14                              |         |        |           |     |         |             |      |       |        | TD266A | 02       | TD2600 | 01     | 1                | TS8   | B1                  |                    | 09A                |                  |
| 00904         |        | XA216     | 15                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 02088         |        | XA216     | 16                              |         |        |           |     |         |             |      |       |        | GND    | 01       |        |        |                  | TS8   |                     |                    | 21B                |                  |
| 00905         |        | XA216     | 17                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 12237         |        | XA216     | 18                              |         |        |           |     |         |             |      |       |        | TD263A | 02       | TD2600 | 01     | 2                | TS8   | B1                  |                    | 10A                |                  |
| 12233         |        | XA216     | 19                              |         |        |           |     |         |             |      |       |        | TD261A | 02       | TD2600 | 01     | 3                | TS8   | B1                  |                    | 09B                |                  |
| 05296         |        | XA216     | 20                              |         | XA215  | 14        |     |         | 16B         | 9    |       |        | SPI015 | 27       | TD2600 | 01     | 4                | TS8   | B1                  |                    | 11A                |                  |
| 00906         |        | XA216     | 21                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 12247         |        | XA216     | 22                              |         |        |           |     |         |             |      |       |        | TD268A | 02       | TD2600 | 01     | 5                | TS8   | B1                  |                    | 12A                |                  |
| 12230         |        | XA216     | 23                              |         | XA217  | 24        |     |         | 16B         | 9    |       |        | TD2600 | 01       | TD2600 | 00     | 1                | TS8   | B1                  |                    | 11B                | TD REG BIT 26 OR |
| 12238         |        | XA216     | 24                              |         | XA123  | 57        |     |         | 16B         | 9    |       |        | TD264A | 01       | TD2600 | 01     | 6                | TS8   | B1                  |                    | 13A                |                  |
| 12243         |        | XA216     | 25                              |         | XA216  | 38        |     |         | 16B         | 9    |       |        | TD267A | 02       | TD2600 | 01     | 7                | TS8   | B1                  |                    | 12B                |                  |
| 12234         |        | XA216     | 26                              |         | XA214  | 14        |     |         | 16B         | 9    |       |        | TD262A | 01       | TD2600 | 01     | 8                | TS8   | B1                  |                    | 14A                |                  |
| 00907         |        | XA216     | 27                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 00399         |        | XA216     | 28                              |         |        |           |     |         |             |      |       |        | +5V    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 00908         |        | XA216     | 29                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 12315         |        | XA216     | 30                              |         |        |           |     |         |             |      |       |        | TD286A | 02       | TD2800 | 01     | 1                | TS8   | C1                  |                    | 15A                |                  |
| 05295         |        | XA216     | 31                              |         | XA216  | 20        |     |         | 16B         | 9    |       |        | SPI015 | 26       | TD2800 | 01     | 2                | TS8   | C1                  |                    | 15B                |                  |
| 02089         |        | XA216     | 32                              |         |        |           |     |         |             |      |       |        | GND    | 01       |        |        |                  | TS8   |                     |                    | 27A                |                  |
| 00909         |        | XA216     | 33                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 12311         |        | XA216     | 34                              |         |        |           |     |         |             |      |       |        | TD283A | 02       | TD2800 | 01     | 3                | TS8   | C1                  |                    | 16A                |                  |
| 12304         |        | XA216     | 35                              |         | XA217  | 40        |     |         | 16B         | 9    |       |        | TD2800 | 01       | TD2800 | 00     | 1                | TS8   | C1                  |                    | 17B                | TD REG BIT 28 OR |
| 12312         |        | XA216     | 36                              |         | XA123  | 75        |     |         | 16B         | 9    |       |        | TD284A | 01       | TD2800 | 01     | 4                | TS8   | C1                  |                    | 17A                |                  |
| 12308         |        | XA216     | 37                              |         | XA214  | 30        |     |         | 16B         | 9    |       |        | TD282A | 01       | TD2800 | 01     | 5                | TS8   | C1                  |                    | 18B                |                  |
| 12244         |        | XA216     | 38                              |         | XA213  | 40        |     |         | 16B         | 9    |       |        | TD267A | 03       | TD2800 | 01     | 6                | TS8   | C1                  |                    | 18A                |                  |
| 00910         |        | XA216     | 39                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 12317         |        | XA216     | 40                              |         |        |           |     |         |             |      |       |        | TD288A | 02       | TD2800 | 01     | 7                | TS8   | C1                  |                    | 19A                |                  |
| 00911         |        | XA216     | 41                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 12307         |        | XA216     | 42                              |         |        |           |     |         |             |      |       |        | TD281A | 02       | TD2800 | 01     | 8                | TS8   | C1                  |                    | 20A                |                  |
| 12389         |        | XA216     | 43                              |         |        |           |     |         |             |      |       |        | TD307A | 02       | TD3000 | 01     | 1                | TS8   | D1                  |                    | 23B                |                  |
| 02090         |        | XA216     | 44                              |         |        |           |     |         |             |      |       |        | GND    | 01       |        |        |                  | TS8   |                     |                    | 40A                |                  |
| 00912         |        | XA216     | 45                              |         |        |           |     |         |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 12387         |        | XA216     | 46                              |         |        |           |     |         |             |      |       |        | TD306A | 02       | TD3000 | 01     | 2                | TS8   | D1                  |                    | 21A                |                  |
| 12377         |        | XA216     | 47                              |         |        |           |     |         |             |      |       |        | TD3000 | 02       | TD3000 | 00     | 1                | TS8   | D1                  |                    | 25B                | TD REG BIT 30 OR |
| 12381         |        | XA216     | 48                              |         |        |           |     |         |             |      |       |        | TD302A | 02       | TD3000 | 01     | 3                | TS8   | D1                  |                    | 22A                |                  |
| 12383         |        | XA216     | 49                              |         |        |           |     |         |             |      |       |        | TD303A | 02       | TD3000 | 01     | 4                | TS8   | D1                  |                    | 26B                |                  |
| 12390         |        | XA216     | 50                              |         | XA135  | 72        |     |         | 16B         | 9    |       |        | TD308A | 01       | TD3000 | 01     | 5                | TS8   | D1                  |                    | 23A                |                  |
| CONNECTOR     |        | XA216     | CONTINUED ON THE NEXT PAGE **** |         |        |           |     |         |             |      |       |        |        |          |        |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA216  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 116

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SFC INST. MISC | SIGNAL | SEQ NO | EQUATION | TERM | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|----------------|--------|--------|----------|------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR |                |        |        |          |      |                  |       |                     |                    |                    |                  |
| 00913   |        | XA216     | 51  |        |           |     |      |             |      |       |                | DNW    | 01     |          |      | TS8              |       |                     |                    |                    |                  |
| 12384   |        | XA216     | 52  |        | XA123     | 69  |      |             | 16B  | 9     |                | TD304A | 01     | TD3000   | 01   | 6                | TS8   | D1                  |                    | 24A                |                  |
| 00914   |        | XA216     | 53  |        |           |     |      |             |      |       |                | DNW    | 01     |          |      | TS8              |       |                     |                    |                    |                  |
| 05287   |        | XA216     | 54  |        | XA216     | 62  |      |             | 16B  | 9     |                | SPI015 | 18     | TD3000   | 01   | 7                | TS8   | D1                  |                    | 25A                |                  |
| 04207   |        | XA216     | 55  |        | XA307     | 50  |      |             | 16B  | 9     |                | KMRI4R | 01     | KCMALO   | 01   | 1                | TS8   | E1                  |                    | 29B                |                  |
| 12379   |        | XA216     | 56  |        |           |     |      |             |      |       |                | TD301A | 02     | TD3000   | 01   | 8                | TS8   | D1                  |                    | 26A                |                  |
| 00915   |        | XA216     | 57  |        |           |     |      |             |      |       |                | DNW    | 01     |          |      | TS8              |       |                     |                    |                    |                  |
| 02091   |        | XA216     | 58  |        |           |     |      |             |      |       |                | GND    | 01     |          |      | TS8              |       |                     |                    |                    |                  |
| 03815   |        | XA216     | 59  |        | XA213     | 11  |      |             | 16B  | 9     |                | KCMALO | 01     | KCMALO   | 00   | 1                | TS8   | E1                  |                    | 31B                | COMPUTER MALFUNC |
| 04936   |        | XA216     | 60  |        | XA215     | 60  |      |             | 16B  | 9     |                | SPI003 | 05     | KCMALO   | 01   | 2                | TS8   | E1                  |                    | 28A                |                  |
| 04994   |        | XA216     | 61  |        | XA321     | 29  |      |             | 16B  | 9     |                | SPI004 | 29     | KCMALO   | 01   | 3                | TS8   | E1                  |                    | 32B                |                  |
| 05288   |        | XA216     | 62  |        | XA217     | 68  |      |             | 16B  | 9     |                | SPI015 | 19     | KCMALO   | 01   | 4                | TS8   | E1                  |                    | 29A                |                  |
| 00916   |        | XA216     | 63  |        |           |     |      |             |      |       |                | DNW    | 01     |          |      | TS8              |       |                     |                    |                    |                  |
| 04195   |        | XA216     | 64  |        | XA108     | 45  |      |             | 16B  | 9     |                | KMRI2R | 03     | KCMALO   | 01   | 5                | TS8   | E1                  |                    | 30A                |                  |
| 00917   |        | XA216     | 65  |        |           |     |      |             |      |       |                | DNW    | 01     |          |      | TS8              |       |                     |                    |                    |                  |
| 04187   |        | XA216     | 66  |        | XA307     | 36  |      |             | 16B  | 9     |                | KMRI1R | 02     | KCMALO   | 01   | 6                | TS8   | E1                  |                    | 31A                |                  |
| 02092   |        | XA216     | 67  |        |           |     |      |             |      |       |                | GND    | 01     |          |      | TS8              |       |                     |                    |                    |                  |
| 04200   |        | XA216     | 68  |        | XA307     | 39  |      |             | 16B  | 9     |                | KMRI3R | 01     | KCMALO   | 01   | 7                | TS8   | E1                  |                    | 32A                |                  |
| 00918   |        | XA216     | 69  |        |           |     |      |             |      |       |                | DNW    | 01     |          |      | TS8              |       |                     |                    |                    |                  |
| 05250   |        | XA216     | 70  |        | XA215     | 61  |      |             | 16B  | 9     |                | SPI014 | 13     | KCMALO   | 01   | 8                | TS8   | E1                  |                    | 33A                |                  |
| 09391   |        | XA216     | 71  |        | XA315     | 08  |      |             | 16B  | 9     |                | TCAC50 | 02     | TCAI1A   | 01   | 1                | TS8   | F1                  |                    | 36A                |                  |
| 09398   |        | XA216     | 72  |        | XA315     | 06  |      |             | 16B  | 9     |                | TCAC60 | 04     | TCAI1A   | 01   | 2                | TS8   | F1                  |                    | 34A                |                  |
| 05305   |        | XA216     | 73  |        | XA217     | 64  |      |             | 16B  | 9     |                | SPI016 | 01     | TCAI1A   | 01   | 3                | TS8   | F1                  |                    | 36B                |                  |
| 05249   |        | XA216     | 74  |        | XA216     | 70  |      |             | 16B  | 9     |                | SPI014 | 12     | TCAI1A   | 01   | 4                | TS8   | F1                  |                    | 35B                |                  |
| 05292   |        | XA216     | 75  |        | XA215     | 68  |      |             | 16B  | 9     |                | SPI015 | 23     | TCAI1A   | 01   | 5                | TS8   | F1                  |                    | 37B                |                  |
| 09408   |        | XA216     | 76  |        |           |     |      |             |      |       |                | TCAI1A | 03     | TCAI1A   | 00   | 1                | TS8   | F1                  |                    | 37A                | CARRY GROUPS 2-6 |
| 09379   |        | XA216     | 77  |        |           |     |      |             |      |       |                | TCAC30 | 03     | TCAI1A   | 01   | 6                | TS8   | F1                  |                    | 38B                |                  |
| 09372   |        | XA216     | 78  |        | XA310     | 66  |      |             | 16B  | 9     |                | TCAC20 | 01     | TCAI1A   | 01   | 7                | TS8   | F1                  |                    | 38A                |                  |
| 09383   |        | XA216     | 79  |        | XA315     | 10  |      |             | 16B  | 9     |                | TCAC40 | 01     | TCAI1A   | 01   | 8                | TS8   | F1                  |                    | 39B                |                  |
| 00919   |        | XA216     | 80  |        |           |     |      |             |      |       |                | DNW    | 01     |          |      | TS8              |       |                     |                    |                    |                  |
| 10648   |        | XA217     | 01  |        | XA217     | 10  |      |             | 16B  | 9     |                | TDC41A | 01     | TD258N   | 01   | 1                | TDD   | BN                  |                    | 02B                |                  |
| 02093   |        | XA217     | 02  |        |           |     |      |             |      |       |                | GND    | 01     |          |      | TDD              |       |                     |                    | 01B                |                  |
| 11248   |        | XA217     | 03  |        | XA220     | 01  |      |             | 16B  | 9     |                | TDS25A | 01     | TD258Q   | 01   | 1                | TDD   | BQ                  |                    | 02A                |                  |
| 11114   |        | XA217     | 04  |        | XA217     | 22  |      |             | 16B  | 9     |                | TDRSCA | 05     | TD258P   | 01   | 1                | TDD   | BP                  |                    | 04A                |                  |
| 12194   |        | XA217     | 05  |        |           |     |      |             |      |       |                | TD2500 | 02     | TD258I   | 01   | 1                | TDD   | BI                  |                    | 03B                |                  |
| 11113   |        | XA217     | 06  |        | XA217     | 04  |      |             | 16B  | 9     |                | TDRSCA | 04     | TD248P   | 01   | 1                | TDD   | AP                  |                    | 05A                |                  |
| 12181   |        | XA217     | 07  |        | XA317     | 05  |      |             | 16B  | 9     |                | TD258Q | 05     | TD258Q   | 00   | 1                | TDD   | BQ                  |                    | 03A                | TD REG BIT 25 SE |
| 12157   |        | XA217     | 08  |        |           |     |      |             |      |       |                | TD2400 | 02     | TD248I   | 01   | 1                | TDD   | AI                  |                    | 06A                |                  |
| 12174   |        | XA217     | 09  |        | XA219     | 13  |      |             | 16B  | 9     |                | TD258P | 01     | TD258P   | 00   | 1                | TDD   | BP                  |                    | 04B                | TD REG BIT 25 RE |
| 10645   |        | XA217     | 10  |        | XA217     | 14  |      |             | 16B  | 9     |                | TDC41A | 02     | TD248N   | 01   | 1                | TDD   | AN                  |                    | 07A                |                  |
| 12139   |        | XA217     | 11  |        |           |     |      |             |      |       |                | TD248P | 03     | TD248P   | 00   | 1                | TDD   | AP                  |                    | 05B                | TD REG BIT 24 RE |
| 00400   |        | XA217     | 12  |        |           |     |      |             |      |       |                | +5V    | 01     |          |      | TDD              |       |                     |                    |                    |                  |
| 12144   |        | XA217     | 13  |        | XA317     | 08  |      |             | 16B  | 9     |                | TD248Q | 05     | TD248Q   | 00   | 1                | TDD   | AQ                  |                    | 06B                | TD REG BIT 24 SE |
| 10650   |        | XA217     | 14  |        | XA217     | 26  |      |             | 16B  | 9     |                | TDC41A | 03     | TD278N   | 01   | 1                | TDD   | DN                  |                    | 09A                |                  |
| 11244   |        | XA217     | 15  |        | XA220     | 03  |      |             | 16B  | 9     |                | TDS24A | 01     | TD248Q   | 01   | 1                | TDD   | AQ                  |                    | 07B                |                  |
| 02094   |        | XA217     | 16  |        |           |     |      |             |      |       |                | GND    | 01     |          |      | TDD              |       |                     |                    | 20B                |                  |
| 11256   |        | XA217     | 17  |        | XA220     | 14  |      |             | 16B  | 9     |                | TD227A | 01     | TD278Q   | 01   | 1                | TDD   | OQ                  |                    | 08B                |                  |
| 12270   |        | XA217     | 18  |        |           |     |      |             |      |       |                | TD2700 | 02     | TD278I   | 01   | 1                | TDD   | OI                  |                    | 10A                |                  |
| CONNECTOR (XA217) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |                |        |        |          |      |                  |       |                     |                    |                    |                  |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA217  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 117

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |                     |  |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|---------------------|--|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        | IDENT               |  |
| 12255   |        | XA217     | 19  |        | XA218     | 20  |      |             | 168  | 9     |        |        | TD278Q   | 03   | TD278Q | 00               | 1     | TDD                 | DQ                 |                    | 09B    | TD REG BIT 27 SE    |  |
| 11138   |        | XA217     | 20  |        | XA125     | 77  |      |             | 168  | 9     |        |        | TDRSFA   | 05   | TD278P | 01               | 1     | TDD                 | DP                 |                    | 11A    |                     |  |
| 12252   |        | XA217     | 21  |        |           |     |      |             |      |       |        |        | TD278P   | 03   | TD278P | 00               | 1     | TDD                 | DP                 |                    | 10B    | TD REG BIT 27 RE    |  |
| 11115   |        | XA217     | 22  |        | XA223     | 73  |      |             | 168  | 9     |        |        | TDRSCA   | 06   | TD268P | 01               | 1     | TDD                 | CP                 |                    | 12A    |                     |  |
| 12211   |        | XA217     | 23  |        | XA219     | 23  |      |             | 168  | 9     |        |        | TD268P   | 01   | TD268P | 00               | 1     | TDD                 | CP                 |                    | 11B    | TD REG BIT 26 RE    |  |
| 12231   |        | XA217     | 24  |        |           |     |      |             |      |       |        |        | TD2600   | 02   | TD268I | 01               | 1     | TDD                 | CI                 |                    | 13A    |                     |  |
| 12218   |        | XA217     | 25  |        | XA317     | 24  |      |             | 168  | 9     |        |        | TD268Q   | 05   | TD268Q | 00               | 1     | TDD                 | CQ                 |                    | 12B    | TD REG BIT 26 SE    |  |
| 10651   |        | XA217     | 26  |        | XA217     | 30  |      |             | 168  | 9     |        |        | TDC41A   | 04   | TD268N | 01               | 1     | TDD                 | GN                 |                    | 14A    |                     |  |
| 11252   |        | XA217     | 27  |        | XA220     | 18  |      |             | 168  | 9     |        |        | TDS26A   | 01   | TD268Q | 01               | 1     | TDD                 | CQ                 |                    | 13B    |                     |  |
| 00401   |        | XA217     | 28  |        |           |     |      |             |      |       |        |        | +5V      | 01   |        |                  |       | TDD                 |                    |                    |        |                     |  |
| 11264   |        | XA217     | 29  |        | XA220     | 30  |      |             | 168  | 9     |        |        | TDS29A   | 01   | TD298Q | 01               | 1     | TDD                 | FQ                 |                    | 14B    |                     |  |
| 10652   |        | XA217     | 30  |        | XA217     | 42  |      |             | 168  | 9     |        |        | TDC41A   | 05   | TD298N | 01               | 1     | TDD                 | FN                 |                    | 15A    |                     |  |
| 12325   |        | XA217     | 31  |        | XA219     | 29  |      |             | 168  | 9     |        |        | TD298Q   | 03   | TD298Q | 00               | 1     | TDD                 | FQ                 |                    | 15B    | TD REG BIT 29 SE    |  |
| 02095   |        | XA217     | 32  |        |           |     |      |             |      |       |        |        | GND      | 01   |        |                  |       | TDD                 |                    |                    | 21B    |                     |  |
| 12322   |        | XA217     | 33  |        |           |     |      |             |      |       |        |        | TD298P   | 03   | TD298P | 00               | 1     | TDD                 | FP                 |                    | 16B    | TD REG BIT 29 RE    |  |
| 12340   |        | XA217     | 34  |        |           |     |      |             |      |       |        |        | TD2900   | 02   | TD298I | 01               | 1     | TDD                 | FI                 |                    | 16A    |                     |  |
| 12287   |        | XA217     | 35  |        |           |     |      |             |      |       |        |        | TD288P   | 03   | TD288P | 00               | 1     | TDD                 | EP                 |                    | 17B    | TD REG BIT 28 RE    |  |
| 11137   |        | XA217     | 36  |        | XA217     | 20  |      |             | 168  | 9     |        |        | TDRSFA   | 04   | TD298P | 01               | 1     | TDD                 | FP                 |                    | 17A    |                     |  |
| 12292   |        | XA217     | 37  |        | XA317     | 40  |      |             | 168  | 9     |        |        | TD288Q   | 05   | TD288Q | 00               | 1     | TDD                 | EQ                 |                    | 18B    | TD REG BIT 28 SE    |  |
| 11136   |        | XA217     | 38  |        | XA217     | 36  |      |             | 168  | 9     |        |        | TDRSFA   | 03   | TD288P | 01               | 1     | TDD                 | EP                 |                    | 18A    |                     |  |
| 11260   |        | XA217     | 39  |        | XA220     | 34  |      |             | 168  | 9     |        |        | TDS28A   | 01   | TD288Q | 01               | 1     | TDD                 | EQ                 |                    | 19B    |                     |  |
| 12305   |        | XA217     | 40  |        |           |     |      |             |      |       |        |        | TD2800   | 02   | TD288I | 01               | 1     | TDD                 | EI                 |                    | 19A    |                     |  |
| 11272   |        | XA217     | 41  |        | XA220     | 46  |      |             | 168  | 9     |        |        | TDS31A   | 01   | TD318Q | 01               | 1     | TDD                 | HQ                 |                    | 22B    |                     |  |
| 10653   |        | XA217     | 42  |        | XA440     | 09  |      |             | 168  | 9     |        |        | TDC41A   | 06   | TD288N | 01               | 1     | TDD                 | EN                 |                    | 20A    |                     |  |
| 12399   |        | XA217     | 43  |        | XA219     | 41  |      |             | 168  | 9     |        |        | TD318Q   | 03   | TD318Q | 00               | 1     | TDD                 | HQ                 |                    | 23B    | TD REG BIT 31 SE    |  |
| 02096   |        | XA217     | 44  |        |           |     |      |             |      |       |        |        | GND      | 01   |        |                  |       | TDD                 |                    |                    | 27A    |                     |  |
| 12396   |        | XA217     | 45  |        |           |     |      |             |      |       |        |        | TD318P   | 03   | TD318P | 00               | 1     | TDD                 | HP                 |                    | 24B    | TD REG BIT 31 RE    |  |
| 10658   |        | XA217     | 46  |        | XA217     | 56  |      |             | 168  | 9     |        |        | TDC51A   | 01   | TD318N | 01               | 1     | TDD                 | HN                 |                    | 21A    |                     |  |
| 12359   |        | XA217     | 47  |        |           |     |      |             |      |       |        |        | TD308P   | 03   | TD308P | 00               | 1     | TDD                 | GP                 |                    | 25B    | TD REG BIT 30 RE    |  |
| 12413   |        | XA217     | 48  |        |           |     |      |             |      |       |        |        | TD3100   | 02   | TD318I | 01               | 1     | TDD                 | HI                 |                    | 22A    |                     |  |
| 12364   |        | XA217     | 49  |        | XA317     | 54  |      |             | 168  | 9     |        |        | TD308Q   | 05   | TD308Q | 00               | 1     | TDD                 | GQ                 |                    | 26B    | TD REG BIT 30 SE    |  |
| 11135   |        | XA217     | 50  |        | XA217     | 38  |      |             | 168  | 9     |        |        | TDRSFA   | 02   | TD318P | 01               | 1     | TDD                 | HP                 |                    | 23A    |                     |  |
| 11268   |        | XA217     | 51  |        | XA220     | 48  |      |             | 168  | 9     |        |        | TDS30A   | 01   | TD308Q | 01               | 1     | TDD                 | GQ                 |                    | 27B    |                     |  |
| 11134   |        | XA217     | 52  |        | XA217     | 50  |      |             | 168  | 9     |        |        | TDRSFA   | 01   | TD308P | 01               | 1     | TDD                 | GP                 |                    | 24A    |                     |  |
| 08424   |        | XA217     | 53  |        | XA108     | 43  |      |             | 168  | 9     |        |        | TAVERA   | 03   | TAVEBQ | 01               | 1     | TDD                 | KQ                 |                    | 28B    |                     |  |
| 12376   |        | XA217     | 54  |        | XA216     | 47  |      |             | 168  | 9     |        |        | TD3000   | 01   | TD308I | 01               | 1     | TDD                 | GI                 |                    | 25A    |                     |  |
| 08419   |        | XA217     | 55  |        | XA309     | 08  |      |             | 168  | 9     |        |        | TAVEBQ   | 01   | TAVEBQ | 00               | 1     | TDD                 | KQ                 |                    | 29B    | PRESET ACC VIL      |  |
| 10659   |        | XA217     | 56  |        | XA346     | 72  |      |             | 168  | 9     |        |        | TDC51A   | 02   | TD308N | 01               | 1     | TDD                 | GN                 |                    | 26A    |                     |  |
| 08413   |        | XA217     | 57  |        | XA214     | 41  |      |             | 168  | 9     |        |        | TAVEBP   | 00   | TAVEBP | 00               | 1     | TDD                 | KP                 |                    | 30B    | PRERESET ACC VILCO1 |  |
| 02097   |        | XA217     | 58  |        |           |     |      |             |      |       |        |        | GND      | 01   |        |                  |       | TDD                 |                    |                    | 40A    |                     |  |
| 12425   |        | XA217     | 59  |        |           |     |      |             |      |       |        |        | TD328P   | 02   | TD328P | 00               | 1     | TDD                 | JP                 |                    | 31B    | PRERESET MEMORY     |  |
| 13767   |        | XA217     | 60  |        | XA217     | 72  |      |             | 168  | 9     |        |        | TKBAAB   | 07   | TAVEBN | 01               | 1     | TDD                 | KN                 |                    | 28A    |                     |  |
| 12428   |        | XA217     | 61  |        |           |     |      |             |      |       |        |        | TD328Q   | 03   | TD328Q | 00               | 1     | TDD                 | JQ                 |                    | 32B    | PRESET MEMORY PA    |  |
| 08429   |        | XA217     | 62  |        |           |     |      |             |      |       |        |        | TAVE00   | 02   | TAVEBI | 01               | 1     | TDD                 | KI                 |                    | 29A    |                     |  |
| 12429   |        | XA217     | 63  |        | XA423     | 38  |      |             | 168  | 9     |        |        | TD32SA   | 01   | TD328Q | 01               | 1     | TDD                 | JQ                 |                    | 33B    |                     |  |
| 05306   |        | XA217     | 64  |        | XA120     | 51  |      |             | 168  | 9     |        |        | SPI016   | 02   | TAVEBP | 01               | 1     | TDD                 | KP                 |                    | 30A    |                     |  |
| 03523   |        | XA217     | 65  |        | XA127     | 51  |      |             | 168  | 9     |        |        | JACKAD4  | 03   | TPEDMO | 01               | 1     | TDD                 | MQ                 |                    | 34B    |                     |  |
| 11120   |        | XA217     | 66  |        | XA223     | 22  |      |             | 168  | 9     |        |        | TDRSDA   | 03   | TD328P | 01               | 1     | TDD                 | JP                 |                    | 31A    |                     |  |
| 02098   |        | XA217     | 67  |        |           |     |      |             |      |       |        |        | GND      | 01   |        |                  |       | TDD                 |                    |                    | 40B    |                     |  |
| 05289   |        | XA217     | 68  |        | XA217     | 80  |      |             | 168  | 9     |        |        | SPI015   | 20   | TD328I | 01               | 1     | TDD                 | JI                 |                    | 32A    |                     |  |
| CONNECTOR XA217 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |                     |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA217  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 118

| RECORD NUMBER | FROM   |           |                                 | TO | WIRE   |           |     |       |             | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO           |          |       |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|-------|-------------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|------------------|----------|-------|
|               | PREFIX | CONNECTOR | PIN                             |    | PREFIX | CONNECTOR | PIN | SH FE | MULTI GROUP |        |        |          |             |                  |       |                     |                    |                    |                  | CODE     | COLOR |
| 14649         |        | XA217     | 69                              |    | XA136  | 60        |     |       | 16B         | 9      |        | TPEDMP   | 02          | TPEDMP           | 00    | 1                   | TDD                | MP                 | 35A              | PRERESET |       |
| 05247         |        | XA217     | 70                              |    | XA217  | 73        |     |       | 16B         | 9      | SPI014 | 10       | TD328N      | 01               | 1     | TDD                 | JN                 | 33A                |                  |          |       |
| 14646         |        | XA217     | 71                              |    | XA208  | 72        |     |       | 16B         | 9      | TPEDA0 | 01       | TPEDMI      | 01               | 1     | TDD                 | MI                 | 36A                | 34A              |          |       |
| 13768         |        | XA217     | 72                              |    | XA238  | 70        |     |       | 16B         | 9      | TKBAAB | 08       | TPEDMN      | 01               | 1     | TDD                 | MN                 | 34A                |                  |          |       |
| 05248         |        | XA217     | 73                              |    | XA216  | 74        |     |       | 16B         | 9      | SPI014 | 11       | TPEDMP      | 01               | 1     | TDD                 | MP                 | 36B                | PRESET           |          |       |
| 14652         |        | XA217     | 74                              |    | XA207  | 59        |     |       | 16B         | 9      | TPEDMQ | 02       | TPEDMQ      | 00               | 1     | TDD                 | MQ                 | 35B                |                  |          |       |
| 14436         |        | XA217     | 75                              |    | XA115  | 36        |     |       | 16B         | 9      | TM00BP | 06       | TADABP      | 01               | 1     | TDD                 | LP                 | 37B                | MASTER RESET MO  | 005      |       |
| 08387         |        | XA217     | 76                              |    | XA239  | 76        |     |       | 16B         | 9      | TADABP | 04       | TADABP      | 00               | 1     | TDD                 | LP                 | 37A                |                  |          |       |
| 08397         |        | XA217     | 77                              |    |        |           |     |       |             |        | TADA10 | 02       | TADABI      | 01               | 1     | TDD                 | LI                 | 38B                | 38A              |          |       |
| 08392         |        | XA217     | 78                              |    | XA325  | 30        |     |       | 16B         | 9      | TADABQ | 03       | TADABQ      | 00               | 1     | TDD                 | LQ                 | 38A                |                  |          |       |
| 08394         |        | XA217     | 79                              |    | XA326  | 22        |     |       | 16B         | 9      | TADACA | 01       | TADABN      | 01               | 1     | TDD                 | LN                 | 39B                | ADDRESS ACK HOLD |          |       |
| 05290         |        | XA217     | 80                              |    | XA218  | 79        |     |       | 16B         | 9      | SPI015 | 21       | TADABQ      | 01               | 1     | TDD                 | LQ                 | 39A                |                  |          |       |
| 13215         |        | XA218     | 01                              |    | XA236  | 05        |     |       | 16B         | 9      | TF253A | 01       | TF253A      | 00               | 1     | TQ2                 | A2                 | 02B                | TD25 TO TE25 WOR |          |       |
| 02099         |        | XA218     | 02                              |    |        |           |     |       |             |        | GND    | 01       |             |                  |       | TQ2                 |                    | 01A                |                  |          |       |
| 10576         |        | XA218     | 03                              |    | XA423  | 31        |     |       | 16B         | 9      | TDAXA0 | 03       | TD157A      | 01               | 1     | TQ2                 | A3                 | 02A                | 04A              |          |       |
| 16906         |        | XA218     | 04                              |    | XA138  | 63        |     |       | 16B         | 9      | TWTD00 | 08       | TF253A      | 01               | 1     | TQ2                 | A2                 | 04A                |                  |          |       |
| 12180         |        | XA218     | 05                              |    | XA217  | 07        |     |       | 16B         | 9      | TD25BQ | 04       | TF253A      | 01               | 2     | TQ2                 | A2                 | 03B                | TD24 TO TE24 WOR |          |       |
| 13207         |        | XA218     | 06                              |    | XA236  | 13        |     |       | 16B         | 9      | TF243A | 01       | TF243A      | 00               | 1     | TQ2                 | A1                 | 05A                |                  |          |       |
| 10321         |        | XA218     | 07                              |    |        |           |     |       |             |        | TC15BQ | 08       | TD157A      | 01               | 2     | TQ2                 | A3                 | 03A                | 06A              |          |       |
| 16905         |        | XA218     | 08                              |    | XA218  | 04        |     |       | 16B         | 9      | TWTD00 | 07       | TF243A      | 01               | 1     | TQ2                 | A1                 | 06A                |                  |          |       |
| 11852         |        | XA218     | 09                              |    | XA221  | 10        |     |       | 16B         | 9      | TD157A | 01       | TD157A      | 00               | 1     | TQ2                 | A3                 | 04B                | CA FIELD TO TD F |          |       |
| 12143         |        | XA218     | 10                              |    | XA217  | 13        |     |       | 16B         | 9      | TD24BQ | 04       | TF243A      | 01               | 2     | TQ2                 | A1                 | 07A                |                  |          |       |
| 10320         |        | XA218     | 11                              |    | XA218  | 07        |     |       | 16B         | 9      | TC15BQ | 07       | TD151A      | 01               | 1     | TQ2                 | A4                 | 05B                | 06B              |          |       |
| 00402         |        | XA218     | 12                              |    |        |           |     |       |             |        | +5V    | 01       |             |                  |       | TQ2                 |                    | 01B                |                  |          |       |
| 09482         |        | XA218     | 13                              |    | XA218  | 35        |     |       | 16B         | 9      | TCAX10 | 01       | TD151A      | 01               | 2     | TQ2                 | A4                 | 06B                | TD27 TO TE27 WOR |          |       |
| 13231         |        | XA218     | 14                              |    | XA236  | 19        |     |       | 16B         | 9      | TF273A | 01       | TF273A      | 00               | 1     | TQ2                 | B2                 | 09A                |                  |          |       |
| 11842         |        | XA218     | 15                              |    | XA221  | 13        |     |       | 16B         | 9      | TD151A | 01       | TD151A      | 00               | 1     | TQ2                 | A4                 | 07B                | XFER TC15 TO TD1 |          |       |
| 02100         |        | XA218     | 16                              |    |        |           |     |       |             |        | GND    | 01       |             |                  |       | TQ2                 |                    | 01B                |                  |          |       |
| 09489         |        | XA218     | 17                              |    |        |           |     |       |             |        | TCAX20 | 04       | TD171A      | 01               | 1     | TQ2                 | B3                 | 08B                | 10A              |          |       |
| 16904         |        | XA218     | 18                              |    | XA218  | 08        |     |       | 16B         | 9      | TWTD00 | 06       | TF273A      | 01               | 1     | TQ2                 | B2                 | 10A                |                  |          |       |
| 10358         |        | XA218     | 19                              |    | XA320  | 29        |     |       | 16B         | 9      | TC17BQ | 01       | TD171A      | 01               | 2     | TQ2                 | B3                 | 09B                | 11A              |          |       |
| 12256         |        | XA218     | 20                              |    | XA219  | 17        |     |       | 16B         | 9      | TC27BQ | 04       | TF273A      | 01               | 2     | TQ2                 | B2                 | 11A                |                  |          |       |
| 11917         |        | XA218     | 21                              |    | XA221  | 25        |     |       | 16B         | 9      | TD171A | 01       | TD171A      | 00               | 1     | TQ2                 | B3                 | 10B                | XFER TC17 TO TD1 |          |       |
| 13223         |        | XA218     | 22                              |    | XA236  | 26        |     |       | 16B         | 9      | TF263A | 01       | TF263A      | 00               | 1     | TQ2                 | B1                 | 12A                |                  |          |       |
| 09440         |        | XA218     | 23                              |    |        |           |     |       |             |        | TCAM20 | 04       | TD172A      | 01               | 1     | TQ2                 | B4                 | 11B                | 13A              |          |       |
| 16903         |        | XA218     | 24                              |    | XA218  | 18        |     |       | 16B         | 9      | TWTD00 | 05       | TF263A      | 01               | 1     | TQ2                 | B1                 | 13A                |                  |          |       |
| 16751         |        | XA218     | 25                              |    | XA316  | 60        |     |       | 16B         | 9      | TD17A0 | 01       | TD172A      | 01               | 2     | TQ2                 | B4                 | 12B                | 14A              |          |       |
| 12217         |        | XA218     | 26                              |    | XA217  | 25        |     |       | 16B         | 9      | TD26BQ | 04       | TF263A      | 01               | 2     | TQ2                 | B1                 | 14A                |                  |          |       |
| 11920         |        | XA218     | 27                              |    |        |           |     |       |             |        | TD172A | 02       | TD172A      | 00               | 1     | TQ2                 | B4                 | 13B                | UPDATE TC17 TO T |          |       |
| 00403         |        | XA218     | 28                              |    |        |           |     |       |             |        | +5V    | 01       |             |                  |       | TQ2                 |                    |                    |                  |          |       |
| 10330         |        | XA218     | 29                              |    | XA219  | 74        |     |       | 16B         | 9      | TC16BP | 01       | TD162A      | 01               | 1     | TQ2                 | C3                 | 14B                | TD29 TO TE29 WOR |          |       |
| 13247         |        | XA218     | 30                              |    | XA236  | 34        |     |       | 16B         | 9      | TF293A | 01       | TF293A      | 00               | 1     | TQ2                 | C2                 | 15A                |                  |          |       |
| 09431         |        | XA218     | 31                              |    | XA218  | 59        |     |       | 16B         | 9      | TCAM10 | 01       | TD162A      | 01               | 2     | TQ2                 | C3                 | 15B                | 20B              |          |       |
| 02101         |        | XA218     | 32                              |    |        |           |     |       |             |        | GND    | 01       |             |                  |       | TQ2                 |                    | 20B                |                  |          |       |
| 11881         |        | XA218     | 33                              |    |        |           |     |       |             |        | TD162A | 02       | TD162A      | 00               | 1     | TQ2                 | C3                 | 16B                | UPDATE TC16 TO T |          |       |
| 16902         |        | XA218     | 34                              |    | XA218  | 24        |     |       | 16B         | 9      | TWTD00 | 04       | TF293A      | 01               | 1     | TQ2                 | C2                 | 16A                |                  |          |       |
| 09483         |        | XA218     | 35                              |    | XA315  | 07        |     |       | 16B         | 9      | TCAX10 | 02       | TD161A      | 01               | 1     | TQ2                 | C4                 | 17B                | 17A              |          |       |
| 12327         |        | XA218     | 36                              |    | XA219  | 36        |     |       | 16B         | 9      | TD29BQ | 05       | TF293A      | 01               | 2     | TQ2                 | C2                 | 17A                |                  |          |       |
| CONNECTOR     |        | XA218     | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |       |             |        |        |          |             |                  |       |                     |                    |                    |                  |          |       |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA218  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 119

| RECORD NUMBER                                     | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | INT | PREFIX | CONNECTOR | PIN | INT | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10344   |        | XA218     | 37  |     |        |           |     |     |             |      |       | TC16BQ | 06     | TD161A   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 13239   |        | XA218     | 38  |     | XA236  | 42        |     |     |             | 16B  | 9     | TF283A | 01     | TF283A   | 00   | 1      | TQ2              | C1    |                     | 18A                | TD28 TO TE28 WOR   |        |
| 11878   |        | XA218     | 39  |     | XA222  | 30        |     |     |             | 16B  | 9     | TD161A | 01     | TD161A   | 00   | 1      | TQ2              | C4    |                     | 19B                | XFER TC16 TO TD1   |        |
| 16901   |        | XA218     | 40  |     | XA218  | 34        |     |     |             | 16B  | 9     | TWTDDO | 03     | TF283A   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 16810   |        | XA218     | 41  |     | XA315  | 50        |     |     |             | 16B  | 9     | TU30A0 | 01     | TD302A   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 12291   |        | XA218     | 42  |     | XA217  | 37        |     |     |             | 16B  | 9     | TD28BQ | 04     | TF283A   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 09462   |        | XA218     | 43  |     | XA214  | 35        |     |     |             | 16B  | 9     | TCAM60 | 02     | TD302A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02102   |        | XA218     | 44  |     |        |           |     |     |             |      |       | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 12380   |        | XA218     | 45  |     | XA216  | 48        |     |     |             | 16B  | 9     | TD302A | 01     | TD302A   | 00   | 1      | TQ2              | D3    |                     | 24B                | UPDATE TC30 TO T   |        |
| 13263   |        | XA218     | 46  |     | XA236  | 50        |     |     |             | 16B  | 9     | TF313A | 01     | TF313A   | 00   | 1      | TQ2              | D2    |                     | 21A                | TD31 TO TE31 WOR   |        |
| 09406   |        | XA218     | 47  |     | XA220  | 65        |     |     |             | 16B  | 9     | TCAT1A | 01     | TCAT1A   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 16900   |        | XA218     | 48  |     | XA218  | 40        |     |     |             | 16B  | 9     | TWTDDO | 02     | TF313A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 13913   |        | XA218     | 49  |     | XA122  | 20        |     |     |             | 16B  | 9     | TKWXB0 | 09     | TCAT1A   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 12401   |        | XA218     | 50  |     | XA219  | 50        |     |     |             | 16B  | 9     | TD31BQ | 05     | TF313A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 09472   |        | XA218     | 51  |     | XA315  | 05        |     |     |             | 16B  | 9     | TCAT1A | 01     | TCAT1A   | 00   | 1      | TQ2              | D4    |                     | 27B                | XFER CA TO TD141   |        |
| 13255   |        | XA218     | 52  |     | XA236  | 56        |     |     |             | 16B  | 9     | TF303A | 01     | TF303A   | 00   | 1      | TQ2              | D1    |                     | 24A                | TD30 TO TE30 WOR   |        |
| 13912   |        | XA218     | 53  |     | XA218  | 49        |     |     |             | 16B  | 9     | TKWX80 | 08     | TCAT5A   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 12363   |        | XA218     | 54  |     | XA217  | 49        |     |     |             | 16B  | 9     | TD30BQ | 04     | TF303A   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 09426   |        | XA218     | 55  |     | XA220  | 77        |     |     |             | 16B  | 9     | TCAT5A | 01     | TCAT5A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 16899   |        | XA218     | 56  |     | XA218  | 48        |     |     |             | 16B  | 9     | TWTDDO | 01     | TF303A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 09480   |        | XA218     | 57  |     | XA315  | 25        |     |     |             | 16B  | 9     | TCAT5A | 01     | TCAT5A   | 00   | 1      | TQ2              | E3    |                     | 30B                | XFER CA TO TD262   |        |
| 02103   |        | XA218     | 58  |     |        |           |     |     |             |      |       | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 09432   |        | XA218     | 59  |     | XA314  | 20        |     |     |             | 16B  | 9     | TCAM10 | 02     | TD152A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 09476   |        | XA218     | 60  |     | XA315  | 22        |     |     |             | 16B  | 9     | TCAT3A | 01     | TCAT3A   | 00   | 1      | TQ2              | E2    |                     | 28A                | XFER CA TO TD202   |        |
| 16745   |        | XA218     | 61  |     | XA316  | 66        |     |     |             | 16B  | 9     | TU15A0 | 01     | TD152A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 13911   |        | XA218     | 62  |     | XA218  | 53        |     |     |             | 16B  | 9     | TKWX80 | 07     | TCAT3A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 11845   |        | XA218     | 63  |     |        |           |     |     |             |      |       | TD152A | 02     | TD152A   | 00   | 1      | TQ2              | E4    |                     | 33B                | UPDATE TC15 TO T   |        |
| 09417   |        | XA218     | 64  |     | XA220  | 74        |     |     |             | 16B  | 9     | TCAT3A | 02     | TCAT3A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 09390   |        | XA218     | 65  |     | XA216  | 71        |     |     |             | 16B  | 9     | TCAC50 | 01     | TCAT4A   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 09475   |        | XA218     | 66  |     |        |           |     |     |             |      |       | TCAT2A | 02     | TCAT2A   | 00   | 1      | TQ2              | E1    |                     | 31A                | XFER CA TO TD171   |        |
| 02104   |        | XA218     | 67  |     |        |           |     |     |             |      |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 09412   |        | XA218     | 68  |     | XA220  | 59        |     |     |             | 16B  | 9     | TCAT2A | 02     | TCAT2A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 09421   |        | XA218     | 69  |     | XA219  | 78        |     |     |             | 16B  | 9     | TCAT4A | 01     | TCAT4A   | 00   | 1      | TQ2              | F3    |                     | 35A                | CARRY GROUPS 5-6   |        |
| 13910   |        | XA218     | 70  |     | XA218  | 62        |     |     |             | 16B  | 9     | TKWXB0 | 06     | TCAT2A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 16798   |        | XA218     | 71  |     | XA314  | 51        |     |     |             | 16B  | 9     | TU272A | 01     | TU27A0   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 16794   |        | XA218     | 72  |     | XA214  | 25        |     |     |             | 16B  | 9     | TU27A0 | 01     | TU27A0   | 00   | 1      | TQ2              | F2    |                     | 34A                | UPDATE CA27 IF 2   |        |
| 16797   |        | XA218     | 73  |     |        |           |     |     |             |      |       | TU271A | 02     | TU27A0   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 09397   |        | XA218     | 74  |     | XA216  | 72        |     |     |             | 16B  | 9     | TCAC60 | 03     | TCAT4A   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 07885   |        | XA218     | 75  |     |        |           |     |     |             |      |       | TF152A | 02     | TF152A   | 00   | 1      | TQ2              | F1    |                     | 37B                |                    |        |
| 10565   |        | XA218     | 76  |     | XA315  | 03        |     |     |             | 16B  | 9     | TDAXAA | 02     | TCAX60   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 05246   |        | XA218     | 77  |     |        |           |     |     |             |      |       | KIR21B | 35     | TF152A   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 09471   |        | XA218     | 78  |     |        |           |     |     |             |      |       | TCATCA | 07     | TCAX60   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 05291   |        | XA218     | 79  |     | XA216  | 75        |     |     |             | 16B  | 9     | SPI015 | 22     | TF152A   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 09502   |        | XA218     | 80  |     | XA214  | 56        |     |     |             | 16B  | 9     | TCAX60 | 01     | TCAX60   | 00   | 1      | TQ2              | F4    |                     | 39A                | XFER CONTROL TC2   |        |
| 12978   |        | XA219     | 01  |     |        |           |     |     |             |      |       | TF017A | 02     | TF017A   | 00   | 1      | TQ2              | A2    |                     | 02B                | TD25 TO TE01 GAT   |        |
| 02105   |        | XA219     | 02  |     |        |           |     |     |             |      |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 12178   |        | XA219     | 03  |     | XA219  | 05        |     |     |             | 16B  | 9     | TD25BQ | 02     | T2425A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 14140   |        | XA219     | 04  |     | XA219  | 08        |     |     |             | 16B  | 9     | TMLLAO | 01     | TF017A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| CONNECTOR (XA219) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA219  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 120

| RECORD NUMBER | FROM   |           |       | TO     |                                 |     | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---------------|--------|-----------|-------|--------|---------------------------------|-----|-------------|------|-------|-------|--------|---------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|               | PREFIX | CONNECTOR | PIN   | PREFIX | CONNECTOR                       | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |        |        |                  |       |                     |                    |                    |                  |
| 12179         |        | XA219     | 05    |        | XA218                           | 05  |             |      |       |       |        |         |          |        |        |                  |       |                     |                    |                    |                  |
| 12962         |        | XA219     | 06    |        |                                 |     |             | 16B  | 9     |       |        | TD25BQ  | 03       | TF017A | 01     | 2                | TQ2   | A2                  |                    | 03B                |                  |
| 12142         |        | XA219     | 07    |        | XA218                           | 10  |             | 16B  | 9     |       |        | TF007A  | 02       | TF007A | 00     | 1                | TQ2   | A1                  |                    | 05A                | TD24 TO TE03 GAT |
| 14141         |        | XA219     | 08    |        | XA219                           | 18  |             | 16B  | 9     |       |        | TD24BQ  | 03       | T2425A | 01     | 2                | TQ2   | A3                  |                    | 03A                |                  |
| 17231         |        | XA219     | 09    |        | XA219                           | 18  |             | 16B  | 9     |       |        | TMLLA0  | 02       | TF007A | 01     | 1                | TQ2   | A1                  |                    | 06A                |                  |
| 12141         |        | XA219     | 10    |        | XA111                           | 56  |             | 16B  | 9     |       |        | TD2425A | 01       | T2425A | 00     | 1                | TQ2   | A3                  |                    | 04B                | PARITY 24.25     |
| 12138         |        | XA219     | 11    |        | XA219                           | 07  |             | 16B  | 9     |       |        | TD24BQ  | 02       | TF007A | 01     | 2                | TQ2   | A1                  |                    | 07A                |                  |
| 00404         |        | XA219     | 12    |        | XA217                           | 11  |             | 16B  | 9     |       |        | TD24BP  | 02       | T2524A | 01     | 1                | TQ2   | A4                  |                    | 05B                |                  |
| 12175         |        | XA219     | 13    |        |                                 |     |             |      |       |       |        | +5V     | 01       |        |        |                  | TQ2   |                     |                    |                    |                  |
| 13010         |        | XA219     | 14    |        | XA220                           | 15  |             | 16B  | 9     |       |        | TD25BP  | 02       | T2524A | 01     | 2                | TQ2   | A4                  |                    | 06B                |                  |
| 17242         |        | XA219     | 15    |        |                                 |     |             |      |       |       |        | TF037A  | 02       | TF037A | 00     | 1                | TQ2   | B2                  |                    | 09A                | TD27 TO TE03 GAT |
| 02106         |        | XA219     | 16    |        |                                 |     |             |      |       |       |        | T2524A  | 03       | T2524A | 00     | 1                | TQ2   | A4                  |                    | 07B                | PARITY 24*.25*   |
| 12257         |        | XA219     | 17    |        |                                 |     |             |      |       |       |        | GND     | 01       |        |        |                  | TQ2   |                     |                    | 01B                |                  |
| 14142         |        | XA219     | 18    |        | XA219                           | 20  |             | 16B  | 9     |       |        | TD27BQ  | 05       | T2627A | 01     | 1                | TQ2   | B3                  |                    | 08B                |                  |
| 12215         |        | XA219     | 19    |        | XA219                           | 24  |             | 16B  | 9     |       |        | TMLLA0  | 03       | TF037A | 01     | 1                | TQ2   | B2                  |                    | 10A                |                  |
| 12258         |        | XA219     | 20    |        | XA219                           | 26  |             | 16B  | 9     |       |        | TD26BQ  | 02       | T2627A | 01     | 2                | TQ2   | B3                  |                    | 09B                |                  |
| 17245         |        | XA219     | 21    |        | XA126                           | 61  |             | 16B  | 9     |       |        | TD27BQ  | 06       | TF037A | 01     | 2                | TQ2   | B2                  |                    | 11A                |                  |
| 12994         |        | XA219     | 22    |        |                                 |     |             |      |       |       |        | T2627A  | 03       | T2627A | 00     | 1                | TQ2   | B3                  |                    | 10B                | PARITY 26.27     |
| 12212         |        | XA219     | 23    |        |                                 |     |             |      |       |       |        | TF027A  | 02       | TF027A | 00     | 1                | TQ2   | B1                  |                    | 12A                | TD26 TO TE02 GAT |
| 14143         |        | XA219     | 24    |        | XA220                           | 21  |             | 16B  | 9     |       |        | TD26BP  | 02       | T2726A | 01     | 1                | TQ2   | B4                  |                    | 11B                |                  |
| 12251         |        | XA219     | 25    |        | XA219                           | 34  |             | 16B  | 9     |       |        | TMLLA0  | 04       | TF027A | 01     | 1                | TQ2   | B1                  |                    | 13A                |                  |
| 12216         |        | XA219     | 26    |        | XA217                           | 21  |             | 16B  | 9     |       |        | TD27BP  | 02       | T2726A | 01     | 2                | TQ2   | B4                  |                    | 12B                |                  |
| 17249         |        | XA219     | 27    |        | XA218                           | 26  |             | 16B  | 9     |       |        | TD26BQ  | 03       | TF027A | 01     | 2                | TQ2   | B1                  |                    | 14A                |                  |
| 00405         |        | XA219     | 28    |        | XA110                           | 70  |             | 16B  | 9     |       |        | T2726A  | 01       | T2726A | 00     | 1                | TQ2   | B4                  |                    | 13B                | PARITY 26*.27*   |
| 12326         |        | XA219     | 29    |        |                                 |     |             |      |       |       |        | +5V     | 01       |        |        |                  | TQ2   |                     |                    |                    |                  |
| 13041         |        | XA219     | 30    |        | XA218                           | 36  |             | 16B  | 9     |       |        | TD29BQ  | 04       | T2829A | 01     | 1                | TQ2   | C3                  |                    | 14B                |                  |
| 12289         |        | XA219     | 31    |        | XA243                           | 72  |             | 16B  | 9     |       |        | TF057A  | 01       | TF057A | 00     | 1                | TQ2   | C2                  |                    | 15A                | TD29 TO TE05 GAT |
| 02107         |        | XA219     | 32    |        | XA219                           | 42  |             | 16B  | 9     |       |        | TD28BQ  | 02       | T2829A | 01     | 2                | TQ2   | C3                  |                    | 15B                |                  |
| 17254         |        | XA219     | 33    |        |                                 |     |             |      |       |       |        | GND     | 01       |        |        |                  | TQ2   |                     |                    | 20B                |                  |
| 14144         |        | XA219     | 34    |        |                                 |     |             |      |       |       |        | T2829A  | 03       | T2829A | 00     | 1                | TQ2   | C3                  |                    | 16B                | PARITY 28.29     |
| 12286         |        | XA219     | 35    |        | XA219                           | 40  |             | 16B  | 9     |       |        | TMLLA0  | 05       | TF057A | 01     | 1                | TQ2   | C2                  |                    | 16A                |                  |
| 12328         |        | XA219     | 36    |        | XA217                           | 35  |             | 16B  | 9     |       |        | TD28BP  | 02       | T2928A | 01     | 1                | TQ2   | C4                  |                    | 17B                |                  |
| 12321         |        | XA219     | 37    |        | XA126                           | 71  |             | 16B  | 9     |       |        | TD29BQ  | 06       | TF057A | 01     | 2                | TQ2   | C2                  |                    | 17A                |                  |
| 13025         |        | XA219     | 38    |        | XA217                           | 33  |             | 16B  | 9     |       |        | TD29BP  | 02       | T2928A | 01     | 2                | TQ2   | C4                  |                    | 18B                |                  |
| 17260         |        | XA219     | 39    |        | XA243                           | 55  |             | 16B  | 9     |       |        | TF047A  | 01       | TF047A | 00     | 1                | TQ2   | C1                  |                    | 18A                | TD28 TO TE04 GAT |
| 14145         |        | XA219     | 40    |        |                                 |     |             |      |       |       |        | T2928A  | 03       | T2928A | 00     | 1                | TQ2   | C4                  |                    | 19B                | PARITY 28*.29*   |
| 12400         |        | XA219     | 41    |        | XA219                           | 48  |             | 16B  | 9     |       |        | TMLLA0  | 06       | TF047A | 01     | 1                | TQ2   | C1                  |                    | 19A                |                  |
| 12290         |        | XA219     | 42    |        | XA218                           | 50  |             | 16B  | 9     |       |        | TD31BQ  | 04       | T3031A | 01     | 1                | TQ2   | D3                  |                    | 22B                |                  |
| 12361         |        | XA219     | 43    |        | XA218                           | 42  |             | 16B  | 9     |       |        | TD28BQ  | 03       | TF047A | 01     | 2                | TQ2   | C1                  |                    | 20A                |                  |
| 02108         |        | XA219     | 44    |        | XA219                           | 54  |             | 16B  | 9     |       |        | TD30BQ  | 02       | T3031A | 01     | 2                | TQ2   | D3                  |                    | 23B                |                  |
| 17263         |        | XA219     | 45    |        |                                 |     |             |      |       |       |        | GND     | 01       |        |        |                  | TQ2   |                     |                    | 21B                |                  |
| 13073         |        | XA219     | 46    |        |                                 |     |             |      |       |       |        | T3031A  | 03       | T3031A | 00     | 1                | TQ2   | D3                  |                    | 24B                | PARITY 30.31     |
| 12358         |        | XA219     | 47    |        | XA247                           | 42  |             | 16B  | 9     |       |        | TF077A  | 01       | TF077A | 00     | 1                | TQ2   | D2                  |                    | 21A                | TD31 TO TE07 GAT |
| 14146         |        | XA219     | 48    |        |                                 |     |             |      |       |       |        |         |          |        |        |                  |       |                     |                    |                    |                  |
| 12395         |        | XA219     | 49    |        | XA217                           | 47  |             | 16B  | 9     |       |        | TD30BP  | 02       | T3130A | 01     | 1                | TQ2   | D4                  |                    | 25B                |                  |
| 12402         |        | XA219     | 50    |        | XA219                           | 56  |             | 16B  | 9     |       |        | TMLLA0  | 07       | TF077A | 01     | 1                | TQ2   | D2                  |                    | 22A                |                  |
| 17277         |        | XA219     | 51    |        | XA217                           | 45  |             | 16B  | 9     |       |        | TD31BP  | 02       | T3130A | 01     | 2                | TQ2   | D4                  |                    | 26B                |                  |
| 13057         |        | XA219     | 52    |        | XA126                           | 78  |             | 16B  | 9     |       |        | TD31BQ  | 06       | TF077A | 01     | 2                | TQ2   | D2                  |                    | 23A                |                  |
| 15130         |        | XA219     | 53    |        | XA110                           | 57  |             | 16B  | 9     |       |        | T3130A  | 01       | T3130A | 00     | 1                | TQ2   | D4                  |                    | 27B                | PARITY 30*.31*   |
| 12362         |        | XA219     | 54    |        | XA247                           | 49  |             | 16B  | 9     |       |        | TF067A  | 01       | TF067A | 00     | 1                | TQ2   | D1                  |                    | 24A                | TD30 TO TE06 GAT |
|               |        |           |       |        |                                 |     |             |      |       |       |        | TD228A  | 01       | TD228A | 01     | 1                | TQ2   | E3                  |                    | 28B                |                  |
|               |        |           |       |        |                                 |     |             |      |       |       |        | TD30BQ  | 03       | TF067A | 01     | 1                | TQ2   | D1                  |                    | 25A                |                  |
|               |        | CONNECTOR | XA219 |        | CONTINUED ON THE NEXT PAGE **** |     |             |      |       |       |        |         |          |        |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA219  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 121

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH FE | PREFIX | CONNECTOR | PIN | SH FE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15121   |        | XA219     | 55  |       |        |           |     |       |             |      |       |       | TQRS20 | 02     | TD228A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 14147   |        | XA219     | 56  |       | XA324  | 07        |     |       | 16B         | 9    |       |       | TMLLA0 | 08     | TF367A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 12100   |        | XA219     | 57  |       | XA222  | 75        |     |       | 16B         | 9    |       |       | TD228A | 01     | TD228A   | 00   | 1      | TQ2              | E3    |                     | 30B                | Q REG SEL TD22-A   |        |
| 02109   |        | XA219     | 58  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 15131   |        | XA219     | 59  |       | XA219  | 64        |     |       | 16B         | 9    |       |       | TQSC20 | 02     | TD238A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 12064   |        | XA219     | 60  |       | XA221  | 46        |     |       | 16B         | 9    |       |       | TD218A | 01     | TD218A   | 00   | 1      | TQ2              | E2    |                     | 28A                | Q REG SEL TD21-A   |        |
| 15122   |        | XA219     | 61  |       | XA326  | 60        |     |       | 16B         | 9    |       |       | TQRS30 | 01     | TD238A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 15118   |        | XA219     | 62  |       | XA326  | 39        |     |       | 16B         | 9    |       |       | TQRS10 | 01     | TD218A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 12135   |        | XA219     | 63  |       | XA221  | 55        |     |       | 16B         | 9    |       |       | TD238A | 01     | TD238A   | 00   | 1      | TQ2              | E4    |                     | 33B                | Q REG SEL TD23-A   |        |
| 15132   |        | XA219     | 64  |       | XA219  | 70        |     |       | 16B         | 9    |       |       | TQSC20 | 03     | TD218A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 15431   |        | XA219     | 65  |       | XA340  | 79        |     |       | 16B         | 9    |       |       | TRTC0A | 03     | TRC160   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 12028   |        | XA219     | 66  |       | XA222  | 60        |     |       | 16B         | 9    |       |       | TD208A | 01     | TD208A   | 00   | 1      | TQ2              | E1    |                     | 31A                | Q REG SEL TD20-A   |        |
| 02110   |        | XA219     | 67  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 15117   |        | XA219     | 68  |       |        |           |     |       |             |      |       |       | TQRS00 | 02     | TD208A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 15265   |        | XA219     | 69  |       |        |           |     |       |             |      |       |       | TRC160 | 04     | TRC160   | 00   | 1      | TQ2              | F3    |                     | 35A                | REAL TIME CLK 0    |        |
| 15133   |        | XA219     | 70  |       | XA245  | 68        |     |       | 16B         | 9    |       |       | TQSC20 | 04     | TD208A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 14121   |        | XA219     | 71  |       | XA141  | 21        |     |       | 16B         | 9    |       |       | TMFTA0 | 04     | TD121A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 11746   |        | XA219     | 72  |       |        |           |     |       |             |      |       |       | TD121A | 02     | TD121A   | 00   | 1      | TQ2              | F2    |                     | 34A                | XFER TC12 TO TD1   |        |
| 10255   |        | XA219     | 73  |       | XA137  | 78        |     |       | 16B         | 9    |       |       | TC12BQ | 07     | TD121A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 10331   |        | XA219     | 74  |       | XA310  | 39        |     |       | 16B         | 9    |       |       | TC168P | 02     | TKC160   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 16722   |        | XA219     | 75  |       | XA224  | 59        |     |       | 16B         | 9    |       |       | TU06A0 | 01     | TU06A0   | 00   | 1      | TQ2              | F1    |                     | 37B                | BL UPDATE TC06.    |        |
| 13909   |        | XA219     | 76  |       | XA218  | 70        |     |       | 16B         | 9    |       |       | TKWX80 | 05     | TCAT4A   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 16725   |        | XA219     | 77  |       |        |           |     |       |             |      |       |       | TU063A | 02     | TU06A0   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 09422   |        | XA219     | 78  |       | XA220  | 76        |     |       | 16B         | 9    |       |       | TCA14A | 02     | TCAT4A   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 16726   |        | XA219     | 79  |       | XA326  | 46        |     |       | 16B         | 9    |       |       | TU064A | 01     | TU06A0   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 09479   |        | XA219     | 80  |       |        |           |     |       |             |      |       |       | TCAT4A | 02     | TCAT4A   | 00   | 1      | TQ2              | F4    |                     | 39A                | XFER CA TO TD232   |        |
| 11249   |        | XA220     | 01  |       |        |           |     |       |             |      |       |       | TDS25A | 02     | TDS25A   | 00   | 1      | THI              | A4    |                     | 02B                | PRESET INPUT TD    |        |
| 02111   |        | XA220     | 02  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     | 01A                |                    |        |
| 11245   |        | XA220     | 03  |       |        |           |     |       |             |      |       |       | TDS24A | 02     | TDS24A   | 00   | 1      | THI              | A3    |                     | 03A                | PRESET INPUT TD    |        |
| 11247   |        | XA220     | 04  |       |        |           |     |       |             |      |       |       | TDS240 | 02     | TDS24A   | 01   | 1      | THI              | A3    |                     | 02A                |                    |        |
| 11251   |        | XA220     | 05  |       |        |           |     |       |             |      |       |       | TDS250 | 02     | TDS25A   | 01   | 1      | THI              | A4    |                     | 03B                |                    |        |
| 11203   |        | XA220     | 06  |       |        |           |     |       |             |      |       |       | TDS130 | 02     | TDS13A   | 01   | 1      | THI              | A2    |                     | 05A                |                    |        |
| 12150   |        | XA220     | 07  |       |        |           |     |       |             |      |       |       | TD24C0 | 03     | TD24C0   | 00   | 1      | THI              | A5    |                     | 04B                | TD BIT 24 UNLOAD   |        |
| 11201   |        | XA220     | 08  |       |        |           |     |       |             |      |       |       | TDS13A | 02     | TDS13A   | 00   | 1      | THI              | A2    |                     | 04A                | PRESET TO BIT 13   |        |
| 12137   |        | XA220     | 09  |       | XA219  | 11        |     |       | 16B         | 9    |       |       | TD248P | 01     | TD24C0   | 01   | 1      | THI              | A5    |                     | 05B                |                    |        |
| 12187   |        | XA220     | 10  |       |        |           |     |       |             |      |       |       | TD25C0 | 03     | TD25C0   | 00   | 1      | THI              | A6    |                     | 06B                | TD BIT 25 UNLOAD   |        |
| 11199   |        | XA220     | 11  |       |        |           |     |       |             |      |       |       | TDS120 | 02     | TDS12A   | 01   | 1      | THI              | A1    |                     | 07A                |                    |        |
| 00406   |        | XA220     | 12  |       |        |           |     |       |             |      |       |       | +5V    | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 11196   |        | XA220     | 13  |       | XA223  | 15        |     |       | 16B         | 9    |       |       | TDS12A | 01     | TDS12A   | 00   | 1      | THI              | A1    |                     | 06A                | PRESET TO BIT 12   |        |
| 11297   |        | XA220     | 14  |       |        |           |     |       |             |      |       |       | TDS27A | 02     | TDS27A   | 00   | 1      | THI              | B4    |                     | 08B                | PRESET INPUT TD    |        |
| 12176   |        | XA220     | 15  |       |        |           |     |       |             |      |       |       | TD258P | 03     | TD25C0   | 01   | 1      | THI              | A6    |                     | 07B                |                    |        |
| 02112   |        | XA220     | 16  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     | 20B                |                    |        |
| 11259   |        | XA220     | 17  |       |        |           |     |       |             |      |       |       | TDS270 | 02     | TDS27A   | 01   | 1      | THI              | B4    |                     | 09B                |                    |        |
| 11253   |        | XA220     | 18  |       |        |           |     |       |             |      |       |       | TDS26A | 02     | TDS26A   | 00   | 1      | THI              | B3    |                     | 09A                | PRESET INPUT TD    |        |
| 12224   |        | XA220     | 19  |       |        |           |     |       |             |      |       |       | TD26C0 | 03     | TD26C0   | 00   | 1      | THI              | B5    |                     | 10B                | TD BIT 26 UNLOAD   |        |
| 11255   |        | XA220     | 20  |       |        |           |     |       |             |      |       |       | TDS260 | 02     | TDS26A   | 01   | 1      | THI              | B3    |                     | 10A                |                    |        |
| 12213   |        | XA220     | 21  |       |        |           |     |       |             |      |       |       | TD268P | 03     | TD26C0   | 01   | 1      | THI              | B5    |                     | 11B                |                    |        |
| 11207   |        | XA220     | 22  |       |        |           |     |       |             |      |       |       | TDS140 | 02     | TDS14A   | 01   | 1      | THI              | B1    |                     | 14A                |                    |        |
| CONNECTOR (XA220) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA220  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 122

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS    |                  | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|----------------|------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | DRFC | PREFIX | CONNECTOR | PIN | DRFC | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     | SPEC INST INSL | AND              |                    |        |
| 11211         |        | XA220     | 23                              |      |        |           |     |      |             |      |       |       | TDS150 | 02     | TDS15A   | 01   | 1      | THI              | B2    |                     | 12A            |                  |                    |        |
| 11205         |        | XA220     | 24                              |      |        |           |     |      |             |      |       |       | TDS14A | 02     | TDS14A   | 00   | 1      | THI              | B1    |                     | 13A            | PRESET TO BIT 14 |                    |        |
| 11209         |        | XA220     | 25                              |      |        |           |     |      |             |      |       |       | TDS15A | 02     | TDS15A   | 00   | 1      | THI              | B2    |                     | 11A            | PRESET TO BIT 13 |                    |        |
| 12261         |        | XA220     | 26                              |      | XA210  | 23        |     |      | 16B         | 9    |       |       | TD27C0 | 01     | TD27C0   | 00   | 1      | THI              | B6    |                     | 12B            | TD BIT 27 UNLOAD |                    |        |
| 12250         |        | XA220     | 27                              |      | XA219  | 25        |     |      | 16B         | 9    |       |       | TD27BP | 01     | TD27C0   | 01   | 1      | THI              | B6    |                     | 13B            |                  |                    |        |
| 00407         |        | XA220     | 28                              |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | THI              |       |                     |                |                  |                    |        |
| 11257         |        | XA220     | 29                              |      |        |           |     |      |             |      |       |       | TDS290 | 02     | TDS29A   | 01   | 1      | THI              | C4    |                     | 15B            |                  |                    |        |
| 11265         |        | XA220     | 30                              |      |        |           |     |      |             |      |       |       | TDS29A | 02     | TDS29A   | 00   | 1      | THI              | C4    |                     | 14B            | PRESET INPUT TO  |                    |        |
| 12298         |        | XA220     | 31                              |      |        |           |     |      |             |      |       |       | TD28C0 | 03     | TD28C0   | 00   | 1      | THI              | C5    |                     | 16B            | TD BIT 28 UNLOAD |                    |        |
| 02113         |        | XA220     | 32                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     | 21B            |                  |                    |        |
| 12285         |        | XA220     | 33                              |      | XA219  | 35        |     |      | 16B         | 9    |       |       | TD28BP | 01     | TD28C0   | 01   | 1      | THI              | C5    |                     | 17B            |                  |                    |        |
| 11261         |        | XA220     | 34                              |      |        |           |     |      |             |      |       |       | TDS28A | 02     | TDS28A   | 00   | 1      | THI              | C3    |                     | 15A            | PRESET INPUT TO  |                    |        |
| 11219         |        | XA220     | 35                              |      |        |           |     |      |             |      |       |       | TDS170 | 02     | TDS17A   | 01   | 1      | THI              | C2    |                     | 18A            |                  |                    |        |
| 11263         |        | XA220     | 36                              |      |        |           |     |      |             |      |       |       | TDS280 | 02     | TDS28A   | 01   | 1      | THI              | C3    |                     | 16A            |                  |                    |        |
| 11217         |        | XA220     | 37                              |      |        |           |     |      |             |      |       |       | TDS17A | 02     | TDS17A   | 00   | 1      | THI              | C2    |                     | 17A            | PRESET INPUT TO  |                    |        |
| 11215         |        | XA220     | 38                              |      |        |           |     |      |             |      |       |       | TDS160 | 02     | TDS16A   | 01   | 1      | THI              | C1    |                     | 20A            |                  |                    |        |
| 12320         |        | XA220     | 39                              |      | XA219  | 37        |     |      | 16B         | 9    |       |       | TD29BP | 01     | TD29C0   | 01   | 1      | THI              | C6    |                     | 19B            | PRESET INPUT TO  |                    |        |
| 11213         |        | XA220     | 40                              |      |        |           |     |      |             |      |       |       | TDS16A | 02     | TDS16A   | 00   | 1      | THI              | C1    |                     | 19A            | PRESET INPUT TO  |                    |        |
| 11275         |        | XA220     | 41                              |      |        |           |     |      |             |      |       |       | TDS310 | 02     | TDS31A   | 01   | 1      | THI              | D4    |                     | 23B            |                  |                    |        |
| 12333         |        | XA220     | 42                              |      |        |           |     |      |             |      |       |       | TD29C0 | 03     | TD29C0   | 00   | 1      | THI              | C6    |                     | 18B            | TD BIT 29 UNLOAD |                    |        |
| 12368         |        | XA220     | 43                              |      | XA210  | 48        |     |      | 16B         | 9    |       |       | TD30C0 | 01     | TD30C0   | 00   | 1      | THI              | D5    |                     | 24B            | TD BIT 30 UNLOAD |                    |        |
| 02114         |        | XA220     | 44                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     | 27A            |                  |                    |        |
| 12357         |        | XA220     | 45                              |      | XA219  | 47        |     |      | 16B         | 9    |       |       | TD30BP | 01     | TD30C0   | 01   | 1      | THI              | D5    |                     | 25B            |                  |                    |        |
| 11273         |        | XA220     | 46                              |      |        |           |     |      |             |      |       |       | TDS31A | 02     | TDS31A   | 00   | 1      | THI              | D4    |                     | 22B            | PRESET INPUT TO  |                    |        |
| 11227         |        | XA220     | 47                              |      |        |           |     |      |             |      |       |       | TDS190 | 02     | TDS19A   | 01   | 1      | THI              | D2    |                     | 24A            |                  |                    |        |
| 11269         |        | XA220     | 48                              |      |        |           |     |      |             |      |       |       | TDS30A | 02     | TDS30A   | 00   | 1      | THI              | D3    |                     | 21A            | PRESET INPUT TO  |                    |        |
| 11225         |        | XA220     | 49                              |      |        |           |     |      |             |      |       |       | TDS19A | 02     | TDS19A   | 00   | 1      | THI              | D2    |                     | 23A            | PRESET INPUT TO  |                    |        |
| 11271         |        | XA220     | 50                              |      |        |           |     |      |             |      |       |       | TDS300 | 02     | TDS30A   | 01   | 1      | THI              | D3    |                     | 22A            |                  |                    |        |
| 12394         |        | XA220     | 51                              |      | XA219  | 49        |     |      | 16B         | 9    |       |       | TD31BP | 01     | TD31C0   | 01   | 1      | THI              | D6    |                     | 27B            |                  |                    |        |
| 11223         |        | XA220     | 52                              |      |        |           |     |      |             |      |       |       | TDS180 | 02     | TDS18A   | 01   | 1      | THI              | D1    |                     | 26A            |                  |                    |        |
| 12404         |        | XA220     | 53                              |      | XA210  | 47        |     |      | 16B         | 9    |       |       | TD31C0 | 01     | TD31C0   | 00   | 1      | THI              | D6    |                     | 26B            | TD BIT 31 UNLOAD |                    |        |
| 11221         |        | XA220     | 54                              |      |        |           |     |      |             |      |       |       | TDS18A | 02     | TDS18A   | 00   | 1      | THI              | D1    |                     | 25A            | PRESET INPUT TO  |                    |        |
| 12173         |        | XA220     | 55                              |      |        |           |     |      |             |      |       |       | TD2480 | 02     | TD248A   | 01   | 1      | THI              | E4    |                     | 29B            |                  |                    |        |
| 12171         |        | XA220     | 56                              |      |        |           |     |      |             |      |       |       | TD248A | 02     | TD248A   | 00   | 1      | THI              | E4    |                     | 28B            | Q REG SEL TC 06/ |                    |        |
| 09414         |        | XA220     | 57                              |      | XA308  | 05        |     |      | 16B         | 9    |       |       | TCA120 | 01     | TCA120   | 00   | 1      | THI              | E5    |                     | 30B            | CARRY GROUPS 3-6 |                    |        |
| 02115         |        | XA220     | 58                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     | 40A            |                  |                    |        |
| 09413         |        | XA220     | 59                              |      |        |           |     |      |             |      |       |       | TCA12A | 03     | TCA120   | 01   | 1      | THI              | E5    |                     | 31B            |                  |                    |        |
| 12207         |        | XA220     | 60                              |      | XA215  | 01        |     |      | 16B         | 9    |       |       | TD258A | 01     | TD258A   | 00   | 1      | THI              | E3    |                     | 28A            | Q REG SEL TC 07/ |                    |        |
| 11235         |        | XA220     | 61                              |      |        |           |     |      |             |      |       |       | TDS210 | 02     | TDS21A   | 01   | 1      | THI              | E2    |                     | 31A            |                  |                    |        |
| 12210         |        | XA220     | 62                              |      |        |           |     |      |             |      |       |       | TD2580 | 02     | TD258A   | 01   | 1      | THI              | E3    |                     | 29A            |                  |                    |        |
| 11233         |        | XA220     | 63                              |      |        |           |     |      |             |      |       |       | TDS21A | 02     | TDS21A   | 00   | 1      | THI              | E2    |                     | 30A            | PRESET INPUT TO  |                    |        |
| 11231         |        | XA220     | 64                              |      |        |           |     |      |             |      |       |       | TDS200 | 02     | TDS20A   | 01   | 1      | THI              | E1    |                     | 33A            |                  |                    |        |
| 09407         |        | XA220     | 65                              |      | XA216  | 76        |     |      | 16B         | 9    |       |       | TCA11A | 02     | TCA110   | 01   | 1      | THI              | E6    |                     | 33B            |                  |                    |        |
| 11229         |        | XA220     | 66                              |      |        |           |     |      |             |      |       |       | TDS20A | 02     | TDS20A   | 00   | 1      | THI              | E1    |                     | 32A            | PRESET INPUT TO  |                    |        |
| 02116         |        | XA220     | 67                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     |                |                  |                    |        |
| 09409         |        | XA220     | 68                              |      | XA323  | 31        |     |      | 16B         | 9    |       |       | TCA110 | 01     | TCA110   | 00   | 1      | THI              | E6    |                     | 32B            | CARRY GROUPS 2-6 |                    |        |
| 09807         |        | XA220     | 69                              |      |        |           |     |      |             |      |       |       | TCM44A | 02     | TCM440   | 01   | 1      | THI              | F3    |                     | 35B            |                  |                    |        |
| 09809         |        | XA220     | 70                              |      |        |           |     |      |             |      |       |       | TCM440 | 02     | TCM440   | 00   | 1      | THI              | F3    |                     | 34B            | BY 4 WD2 OF BTST |                    |        |
| 11241         |        | XA220     | 71                              |      |        |           |     |      |             |      |       |       | TDS23A | 02     | TDS23A   | 00   | 1      | THI              | F2    |                     | 36B            | PRESET INPUT TO  |                    |        |
| 09420         |        | XA220     | 72                              |      |        |           |     |      |             |      |       |       | TCA130 | 02     | TCA130   | 00   | 1      | THI              | F4    |                     | 34A            | CARRY GROUPS 4-6 |                    |        |
| CONNECTOR     |        | XA220     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                |                  |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA220  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 123

| RECORD NUMBER                                   | FROM   |           |     | TO | WIRE   |           |     |             | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|----|--------|-----------|-----|-------------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN |    | PREFIX | CONNECTOR | PIN | MULTI GROUP |        |        |          |        |        |                  |       |                     |                    |                    |                  |
| 11243   |        | XA220     | 73  |    |        |           |     |             |        | TDS230 | 02       | TDS23A | 01     | 1                | THI   | F2                  |                    | 37B                |                  |
| 09418   |        | XA220     | 74  |    |        |           |     |             |        | TCAI3A | 03       | TCAI30 | 01     | 1                | THI   | F4                  |                    | 35A                |                  |
| 09396   |        | XA220     | 75  |    | XA218  | 74        |     | 16B         | 9      | TCAC60 | 02       | TCAI5A | 01     | 1                | THI   | F6                  |                    | 39A                |                  |
| 09423   |        | XA220     | 76  |    |        |           |     |             |        | TCAI4A | 03       | TCAI40 | 01     | 1                | THI   | F5                  |                    | 37A                |                  |
| 09427   |        | XA220     | 77  |    | XA319  | 37        |     | 16B         | 9      | TCAI5A | 02       | TCAI5A | 00     | 1                | THI   | F6                  |                    | 38A                | CARRY GROUP 6-A  |
| 09425   |        | XA220     | 78  |    |        |           |     |             |        | TCAI40 | 02       | TCAI40 | 00     | 1                | THI   | F5                  |                    | 36A                | CARRY GROUPS 5-6 |
| 11239   |        | XA220     | 79  |    |        |           |     |             |        | TDS220 | 02       | TDS22A | 01     | 1                | THI   | F1                  |                    | 39B                |                  |
| 11237   |        | XA220     | 80  |    |        |           |     |             |        | TDS22A | 02       | TDS22A | 00     | 1                | THI   | F1                  |                    | 38B                | PRESET INPUT TD  |
| 11844   |        | XA221     | 01  |    | XA218  | 63        |     | 16B         | 9      | TD152A | 01       | TD1500 | 01     | 1                | TS8   | A1                  |                    | 02B                |                  |
| 02117   |        | XA221     | 02  |    |        |           |     |             |        | GND.   | 01       |        |        |                  | TS8   |                     |                    | 01A                |                  |
| 00920   |        | XA221     | 03  |    |        |           |     |             |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11847   |        | XA221     | 04  |    |        |           |     |             |        | TD153A | 02       | TD1500 | 01     | 2                | TS8   | A1                  |                    | 04A                |                  |
| 11850   |        | XA221     | 05  |    | XA237  | 66        |     | 16B         | 9      | TD156A | 01       | TD1500 | 01     | 3                | TS8   | A1                  |                    | 03B                |                  |
| 05300   |        | XA221     | 06  |    | XA221  | 14        |     | 16B         | 9      | SPI015 | 31       | TD1500 | 01     | 4                | TS8   | A1                  |                    | 05A                |                  |
| 05243   |        | XA221     | 07  |    | XA221  | 20        |     | 16B         | 9      | SPI014 | 06       | TD1500 | 01     | 5                | TS8   | A1                  |                    | 03A                |                  |
| 11849   |        | XA221     | 08  |    |        |           |     |             |        | TD154A | 02       | TD1500 | 01     | 6                | TS8   | A1                  |                    | 06A                |                  |
| 00921   |        | XA221     | 09  |    |        |           |     |             |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11853   |        | XA221     | 10  |    |        |           |     |             |        | TD157A | 02       | TD1500 | 01     | 7                | TS8   | A1                  |                    | 07A                |                  |
| 11840   |        | XA221     | 11  |    | XA223  | 18        |     | 16B         | 9      | TD1500 | 01       | TD1500 | 00     | 1                | TS8   | A1                  |                    | 05B                | TD REG BIT 15 OR |
| 00408   |        | XA221     | 12  |    |        |           |     |             |        | +5V    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11843   |        | XA221     | 13  |    |        |           |     |             |        | TD151A | 02       | TD1500 | 01     | 8                | TS8   | A1                  |                    | 06B                |                  |
| 05301   |        | XA221     | 14  |    | XA221  | 36        |     | 16B         | 9      | SPI015 | 32       | TD1700 | 01     | 1                | TS8   | B1                  |                    | 09A                |                  |
| 00922   |        | XA221     | 15  |    |        |           |     |             |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 02118   |        | XA221     | 16  |    |        |           |     |             |        | GND    | 01       |        |        |                  | TS8   |                     |                    | 21B                |                  |
| 00923   |        | XA221     | 17  |    |        |           |     |             |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 05308   |        | XA221     | 18  |    | XA222  | 34        |     | 16B         | 9      | SPI016 | 04       | TD1700 | 01     | 2                | TS8   | B1                  |                    | 10A                |                  |
| 11922   |        | XA221     | 19  |    |        |           |     |             |        | TD173A | 02       | TD1700 | 01     | 3                | TS8   | B1                  |                    | 09B                |                  |
| 05244   |        | XA221     | 20  |    | XA221  | 34        |     | 16B         | 9      | SPI014 | 07       | TD1700 | 01     | 4                | TS8   | B1                  |                    | 11A                |                  |
| 00924   |        | XA221     | 21  |    |        |           |     |             |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11925   |        | XA221     | 22  |    | XA235  | 09        |     | 16B         | 9      | TD176A | 01       | TD1700 | 01     | 5                | TS8   | B1                  |                    | 12A                |                  |
| 11915   |        | XA221     | 23  |    | XA223  | 34        |     | 16B         | 9      | TD1700 | 01       | TD1700 | 00     | 1                | TS8   | B1                  |                    | 11B                | TD REG BIT 17 OR |
| 11924   |        | XA221     | 24  |    |        |           |     |             |        | TD174A | 02       | TD1700 | 01     | 6                | TS8   | B1                  |                    | 13A                |                  |
| 11918   |        | XA221     | 25  |    |        |           |     |             |        | TD171A | 02       | TD1700 | 01     | 7                | TS8   | B1                  |                    | 12B                |                  |
| 11919   |        | XA221     | 26  |    | XA218  | 27        |     | 16B         | 9      | TD172A | 01       | TD1700 | 01     | 8                | TS8   | B1                  |                    | 14A                |                  |
| 00925   |        | XA221     | 27  |    |        |           |     |             |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 00409   |        | XA221     | 28  |    |        |           |     |             |        | +5V    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 00926   |        | XA221     | 29  |    |        |           |     |             |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11987   |        | XA221     | 30  |    | XA314  | 63        |     | 16B         | 9      | TD192A | 01       | TD1900 | 01     | 1                | TS8   | C1                  |                    | 15A                |                  |
| 11986   |        | XA221     | 31  |    |        |           |     |             |        | TD191A | 02       | TD1900 | 01     | 2                | TS8   | C1                  |                    | 15B                |                  |
| 02119   |        | XA221     | 32  |    |        |           |     |             |        | GND    | 01       |        |        |                  | TS8   |                     |                    | 27A                |                  |
| 00927   |        | XA221     | 33  |    |        |           |     |             |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 05245   |        | XA221     | 34  |    | XA217  | 70        |     | 16B         | 9      | SPI014 | 08       | TD1900 | 01     | 3                | TS8   | C1                  |                    | 16A                | C13              |
| 11983   |        | XA221     | 35  |    | XA223  | 48        |     | 16B         | 9      | TD1900 | 01       | TD1900 | 00     | 1                | TS8   | C1                  |                    | 17B                | TD REG BIT 19 OR |
| 05302   |        | XA221     | 36  |    | XA221  | 60        |     | 16B         | 9      | SPI015 | 33       | TD1900 | 01     | 4                | TS8   | C1                  |                    | 17A                |                  |
| 11993   |        | XA221     | 37  |    | XA234  | 14        |     | 16B         | 9      | TD196A | 01       | TD1900 | 01     | 5                | TS8   | C1                  |                    | 18B                |                  |
| 11990   |        | XA221     | 38  |    |        |           |     |             |        | TD193A | 02       | TD1900 | 01     | 6                | TS8   | C1                  |                    | 18A                |                  |
| 00928   |        | XA221     | 39  |    |        |           |     |             |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 05310   |        | XA221     | 40  |    | XA222  | 56        |     | 16B         | 9      | SPI016 | 06       | TD1900 | 01     | 7                | TS8   | C1                  |                    | 19A                |                  |
| CONNECTOR XA221 CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |             |        |        |          |        |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA221  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 124

| RECORD NUMBER | FROM   |                                 |     |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|---------------------------------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | PLC | PREFIX | CONNECTOR | PIN | PLC | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00929         |        | XA221                           | 41  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11992         |        | XA221                           | 42  |     |        |           |     |     |             |      |       |       | TD194A | 02     | TD1900   | 01   | 8      | TS8              | C1    |                     | 20A                |                    |        |
| 12054         |        | XA221                           | 43  |     | XA214  | 63        |     |     | 16B         | 9    |       |       | TD212A | 01     | TD2100   | 01   | 1      | TS8              | 01    |                     | 23B                |                    |        |
| 02120         |        | XA221                           | 44  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     | 40A                |                    |        |
| 00930         |        | XA221                           | 45  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12065         |        | XA221                           | 46  |     |        |           |     |     |             |      |       |       | TD218A | 02     | TD2100   | 01   | 2      | TS8              | 01    |                     | 21A                |                    |        |
| 12050         |        | XA221                           | 47  |     | XA223  | 62        |     |     | 16B         | 9    |       |       | TD2100 | 01     | TD2100   | 00   | 1      | TS8              | 01    |                     | 25B                | TO REG BIT 21 OR   |        |
| 12060         |        | XA221                           | 48  |     | XA235  | 30        |     |     | 16B         | 9    |       |       | TD216A | 01     | TD2100   | 01   | 3      | TS8              | 01    |                     | 22A                |                    |        |
| 12057         |        | XA221                           | 49  |     |        |           |     |     |             |      |       |       | TD213A | 02     | TD2100   | 01   | 4      | TS8              | 01    |                     | 26B                |                    |        |
| 12059         |        | XA221                           | 50  |     |        |           |     |     |             |      |       |       | TD214A | 02     | TD2100   | 01   | 5      | TS8              | 01    |                     | 23A                |                    |        |
| 00931         |        | XA221                           | 51  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12063         |        | XA221                           | 52  |     |        |           |     |     |             |      |       |       | TD217A | 02     | TD2100   | 01   | 6      | TS8              | 01    |                     | 24A                |                    |        |
| 00932         |        | XA221                           | 53  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 16367         |        | XA221                           | 54  |     |        |           |     |     |             |      |       |       | TS224A | 03     | TD2100   | 01   | 7      | TS8              | 01    |                     | 25A                |                    |        |
| 12136         |        | XA221                           | 55  |     |        |           |     |     |             |      |       |       | TD238A | 02     | TD2300   | 01   | 1      | TS8              | E1    |                     | 29B                |                    |        |
| 12053         |        | XA221                           | 56  |     |        |           |     |     |             |      |       |       | TD211A | 02     | TD2100   | 01   | 8      | TS8              | 01    |                     | 26A                |                    |        |
| 00933         |        | XA221                           | 57  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 02121         |        | XA221                           | 58  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12121         |        | XA221                           | 59  |     | XA223  | 71        |     |     | 16B         | 9    |       |       | TD2300 | 01     | TD2300   | 00   | 1      | TS8              | E1    |                     | 31B                | TO REG BIT 23 OR   |        |
| 05303         |        | XA221                           | 60  |     | XA120  | 53        |     |     | 16B         | 9    |       |       | SPI015 | 34     | TD2300   | 01   | 2      | TS8              | E1    |                     | 28A                |                    |        |
| 12131         |        | XA221                           | 61  |     | XA237  | 60        |     |     | 16B         | 9    |       |       | TD236A | 01     | TD2300   | 01   | 3      | TS8              | E1    |                     | 32B                |                    |        |
| 12128         |        | XA221                           | 62  |     |        |           |     |     |             |      |       |       | TD233A | 02     | TD2300   | 01   | 4      | TS8              | E1    |                     | 29A                |                    |        |
| 00934         |        | XA221                           | 63  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12130         |        | XA221                           | 64  |     |        |           |     |     |             |      |       |       | TD234A | 02     | TD2300   | 01   | 5      | TS8              | E1    |                     | 30A                |                    |        |
| 00935         |        | XA221                           | 65  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12134         |        | XA221                           | 66  |     |        |           |     |     |             |      |       |       | TD237A | 02     | TD2300   | 01   | 6      | TS8              | E1    |                     | 31A                |                    |        |
| 02122         |        | XA221                           | 67  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12124         |        | XA221                           | 68  |     |        |           |     |     |             |      |       |       | TD231A | 02     | TD2300   | 01   | 7      | TS8              | E1    |                     | 32A                |                    |        |
| 00936         |        | XA221                           | 69  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12125         |        | XA221                           | 70  |     | XA214  | 80        |     |     | 16B         | 9    |       |       | TD232A | 01     | TD2300   | 01   | 8      | TS8              | E1    |                     | 33A                |                    |        |
| 10481         |        | XA221                           | 71  |     |        |           |     |     |             |      |       |       | TC268P | 04     | TCM44A   | 01   | 1      | TS8              | F1    |                     | 36A                |                    |        |
| 10513         |        | XA221                           | 72  |     |        |           |     |     |             |      |       |       | TC298P | 04     | TCM44A   | 01   | 2      | TS8              | F1    |                     | 34A                |                    |        |
| 10522         |        | XA221                           | 73  |     | XA326  | 65        |     |     | 16B         | 9    |       |       | TC308P | 01     | TCM44A   | 01   | 3      | TS8              | F1    |                     | 36B                |                    |        |
| 10492         |        | XA221                           | 74  |     | XA317  | 19        |     |     | 16B         | 9    |       |       | TC278Q | 02     | TCM44A   | 01   | 4      | TS8              | F1    |                     | 35B                |                    |        |
| 10554         |        | XA221                           | 75  |     | XA213  | 60        |     |     | 16B         | 9    |       |       | TC31CA | 01     | TCM44A   | 01   | 5      | TS8              | F1    |                     | 37B                |                    |        |
| 09806         |        | XA221                           | 76  |     | XA220  | 69        |     |     | 16B         | 9    |       |       | TCM44A | 01     | TCM44A   | 00   | 1      | TS8              | F1    |                     | 37A                | BYTE 4 OF WD 2 B   |        |
| 10464         |        | XA221                           | 77  |     | XA214  | 08        |     |     | 16B         | 9    |       |       | TC248Q | 06     | TCM44A   | 01   | 6      | TS8              | F1    |                     | 38B                |                    |        |
| 10476         |        | XA221                           | 78  |     | XA214  | 07        |     |     | 16B         | 9    |       |       | TC258Q | 06     | TCM44A   | 01   | 7      | TS8              | F1    |                     | 38A                |                    |        |
| 10501         |        | XA221                           | 79  |     | XA214  | 34        |     |     | 16B         | 9    |       |       | TC288P | 04     | TCM44A   | 01   | 8      | TS8              | F1    |                     | 39B                |                    |        |
| 00937         |        | XA221                           | 80  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11777         |        | XA222                           | 01  |     |        |           |     |     |             |      |       |       | TD131A | 02     | TD1300   | 01   | 1      | TS8              | A1    |                     | 02B                |                    |        |
| 02123         |        | XA222                           | 02  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     | 01A                |                    |        |
| 00938         |        | XA222                           | 03  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11781         |        | XA222                           | 04  |     |        |           |     |     |             |      |       |       | TD133A | 02     | TD1300   | 01   | 2      | TS8              | A1    |                     | 04A                |                    |        |
| 11784         |        | XA222                           | 05  |     | XA237  | 30        |     |     | 16B         | 9    |       |       | TD136A | 01     | TD1300   | 01   | 3      | TS8              | A1    |                     | 03B                |                    |        |
| 11787         |        | XA222                           | 06  |     |        |           |     |     |             |      |       |       | TD137A | 02     | TD1300   | 01   | 4      | TS8              | A1    |                     | 05A                |                    |        |
| 05398         |        | XA222                           | 07  |     | XA121  | 10        |     |     | 16B         | 9    |       |       | SPI018 | 34     | TD1300   | 01   | 5      | TS8              | A1    |                     | 03A                |                    |        |
| 11783         |        | XA222                           | 08  |     |        |           |     |     |             |      |       |       | TD134A | 02     | TD1300   | 01   | 6      | TS8              | A1    |                     | 06A                |                    |        |
| CONNECTOR     | XA222  | CONTINUED ON THE NEXT PAGE **** |     |     |        |           |     |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA222  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 125

| RECORD NUMBER                                     | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|--------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | POS | PREFIX | CONNECTOR | PIN | POS | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |      |                  |       |                     |                    |                    |                  |
| 00939   |        | XA222     | 09  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 05363   |        | XA222     | 10  |     | XA121  | 08        |     |     |             | 16B  | 9     |       | SPI017 | 32     | TD1300   | 01   | 7    | TS8              | A1    |                     | 07A                |                    |                  |
| 11774   |        | XA222     | 11  |     | XA223  | 05        |     |     |             | 16B  | 9     |       | TD1300 | 01     | TD1300   | 00   | 1    | TS8              | A1    |                     | 05B                |                    | TD REG BIT 13 OR |
| 00410   |        | XA222     | 12  |     |        |           |     |     |             |      |       |       | +5V    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 11778   |        | XA222     | 13  |     | XA327  | 43        |     |     |             | 16B  | 9     |       | TD132A | 01     | TD1300   | 01   | 8    | TS8              | A1    |                     | 06B                |                    |                  |
| 11810   |        | XA222     | 14  |     |        |           |     |     |             |      |       |       | TD141A | 02     | TD1400   | 01   | 1    | TS8              | B1    |                     | 09A                |                    |                  |
| 00940   |        | XA222     | 15  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 02124   |        | XA222     | 16  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |      |                  |       |                     |                    | 21B                |                  |
| 00941   |        | XA222     | 17  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 11811   |        | XA222     | 18  |     | XA314  | 14        |     |     |             | 16B  | 9     |       | TD142A | 01     | TD1400   | 01   | 2    | TS8              | B1    |                     | 10A                |                    |                  |
| 11814   |        | XA222     | 19  |     |        |           |     |     |             |      |       |       | TD143A | 02     | TD1400   | 01   | 3    | TS8              | B1    |                     | 09B                |                    |                  |
| 05362   |        | XA222     | 20  |     | XA222  | 10        |     |     |             | 16B  | 9     |       | SPI017 | 31     | TD1400   | 01   | 4    | TS8              | B1    |                     | 11A                |                    |                  |
| 00942   |        | XA222     | 21  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 05397   |        | XA222     | 22  |     | XA222  | 07        |     |     |             | 16B  | 9     |       | SPI018 | 33     | TD1400   | 01   | 5    | TS8              | B1    |                     | 12A                |                    |                  |
| 11808   |        | XA222     | 23  |     |        |           |     |     |             |      |       |       | TD1400 | 02     | TD1400   | 00   | 1    | TS8              | B1    |                     | 11B                |                    | TD REG BIT 14 OR |
| 11816   |        | XA222     | 24  |     |        |           |     |     |             |      |       |       | TD144A | 02     | TD1400   | 01   | 6    | TS8              | B1    |                     | 13A                |                    |                  |
| 11820   |        | XA222     | 25  |     |        |           |     |     |             |      |       |       | TD147A | 02     | TD1400   | 01   | 7    | TS8              | B1    |                     | 12B                |                    |                  |
| 11817   |        | XA222     | 26  |     | XA235  | 39        |     |     |             | 16B  | 9     |       | TD146A | 01     | TD1400   | 01   | 8    | TS8              | B1    |                     | 14A                |                    |                  |
| 00943   |        | XA222     | 27  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 00411   |        | XA222     | 28  |     |        |           |     |     |             |      |       |       | +5V    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 00944   |        | XA222     | 29  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 11879   |        | XA222     | 30  |     |        |           |     |     |             |      |       |       | TD161A | 02     | TD1600   | 01   | 1    | TS8              | C1    |                     | 15A                |                    |                  |
| 05361   |        | XA222     | 31  |     | XA222  | 20        |     |     |             | 16B  | 9     |       | SPI017 | 30     | TD1600   | 01   | 2    | TS8              | C1    |                     | 15B                |                    |                  |
| 02125   |        | XA222     | 32  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |      |                  |       |                     |                    | 27A                |                  |
| 00945   |        | XA222     | 33  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 05309   |        | XA222     | 34  |     | XA221  | 40        |     |     |             | 16B  | 9     |       | SPI016 | 05     | TD1600   | 01   | 3    | TS8              | C1    |                     | 16A                |                    |                  |
| 11876   |        | XA222     | 35  |     | XA223  | 40        |     |     |             | 16B  | 9     |       | TD1600 | 01     | TD1600   | 00   | 1    | TS8              | C1    |                     | 17B                |                    | TD REG BIT 16 OR |
| 05396   |        | XA222     | 36  |     | XA222  | 22        |     |     |             | 16B  | 9     |       | SPI018 | 32     | TD1600   | 01   | 4    | TS8              | C1    |                     | 17A                |                    |                  |
| 11883   |        | XA222     | 37  |     |        |           |     |     |             |      |       |       | TD163A | 02     | TD1600   | 01   | 5    | TS8              | C1    |                     | 18B                |                    |                  |
| 11885   |        | XA222     | 38  |     |        |           |     |     |             |      |       |       | TD164A | 02     | TD1600   | 01   | 6    | TS8              | C1    |                     | 18A                |                    |                  |
| 00946   |        | XA222     | 39  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 11886   |        | XA222     | 40  |     | XA234  | 06        |     |     |             | 16B  | 9     |       | TD166A | 01     | TD1600   | 01   | 7    | TS8              | C1    |                     | 19A                |                    |                  |
| 00947   |        | XA222     | 41  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 11880   |        | XA222     | 42  |     | XA218  | 33        |     |     |             | 16B  | 9     |       | TD162A | 01     | TD1600   | 01   | 8    | TS8              | C1    |                     | 20A                |                    |                  |
| 11954   |        | XA222     | 43  |     |        |           |     |     |             |      |       |       | TD181A | 02     | TD1800   | 01   | 1    | TS8              | O1    |                     | 23B                |                    |                  |
| 02126   |        | XA222     | 44  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |      |                  |       |                     |                    | 40A                |                  |
| 00948   |        | XA222     | 45  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 11955   |        | XA222     | 46  |     | XA314  | 60        |     |     |             | 16B  | 9     |       | TD182A | 01     | TD1800   | 01   | 2    | TS8              | O1    |                     | 21A                |                    |                  |
| 11951   |        | XA222     | 47  |     | XA223  | 54        |     |     |             | 16B  | 9     |       | TD1800 | 01     | TD1800   | 00   | 1    | TS8              | O1    |                     | 25B                |                    | TD REG BIT 18 OR |
| 05395   |        | XA222     | 48  |     | XA222  | 36        |     |     |             | 16B  | 9     |       | SPI018 | 31     | TD1800   | 01   | 3    | TS8              | O1    |                     | 22A                |                    |                  |
| 05360   |        | XA222     | 49  |     | XA222  | 31        |     |     |             | 16B  | 9     |       | SPI017 | 29     | TD1800   | 01   | 4    | TS8              | O1    |                     | 26B                |                    |                  |
| 11961   |        | XA222     | 50  |     | XA237  | 22        |     |     |             | 16B  | 9     |       | TD186A | 01     | TD1800   | 01   | 5    | TS8              | O1    |                     | 23A                |                    |                  |
| 00949   |        | XA222     | 51  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 11958   |        | XA222     | 52  |     |        |           |     |     |             |      |       |       | TD183A | 02     | TD1800   | 01   | 6    | TS8              | O1    |                     | 24A                |                    |                  |
| 00950   |        | XA222     | 53  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 11960   |        | XA222     | 54  |     |        |           |     |     |             |      |       |       | TD184A | 02     | TD1800   | 01   | 7    | TS8              | O1    |                     | 25A                |                    |                  |
| 16366   |        | XA222     | 55  |     | XA221  | 54        |     |     |             | 16B  | 9     |       | TS224A | 02     | TD2000   | 01   | 1    | TS8              | E1    |                     | 29B                |                    |                  |
| 05311   |        | XA222     | 56  |     | XA227  | 61        |     |     |             | 16B  | 9     |       | SPI016 | 07     | TD1800   | 01   | 8    | TS8              | O1    |                     | 26A                |                    |                  |
| 00951   |        | XA222     | 57  |     |        |           |     |     |             |      |       |       | DNW    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| 02127   |        | XA222     | 58  |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |      |                  |       |                     |                    |                    |                  |
| CONNECTOR (XA222) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |             |      |       |       |        |        |          |      |      |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA222  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 126

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 12014   |        | XA222     | 59  |      | XA223  | 68        |     |      |             | 168  | 9     |       | TD2000 | 01     | TD2000   | 00   | 1      | TS8              | E1    |                     | 31B                | TD REG BIT 20 OR   |        |
| 12029   |        | XA222     | 60  |      |        |           |     |      |             |      |       |       | TD208A | 02     | TD2000   | 01   | 2      | TS8              | E1    |                     | 28A                |                    |        |
| 12024   |        | XA222     | 61  |      | XA235  | 27        |     |      |             | 168  | 9     |       | TD206A | 01     | TD2000   | 01   | 3      | TS8              | E1    |                     | 32B                |                    |        |
| 12021   |        | XA222     | 62  |      |        |           |     |      |             |      |       |       | TD203A | 02     | TD2000   | 01   | 4      | TS8              | E1    |                     | 29A                |                    |        |
| 00952   |        | XA222     | 63  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12023   |        | XA222     | 64  |      |        |           |     |      |             |      |       |       | TD204A | 02     | TD2000   | 01   | 5      | TS8              | E1    |                     | 30A                |                    |        |
| 00953   |        | XA222     | 65  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12027   |        | XA222     | 66  |      |        |           |     |      |             |      |       |       | TD207A | 02     | TD2000   | 01   | 6      | TS8              | E1    |                     | 31A                |                    |        |
| 02128   |        | XA222     | 67  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12018   |        | XA222     | 68  |      | XA214  | 60        |     |      |             | 168  | 9     |       | TD202A | 01     | TD2000   | 01   | 7      | TS8              | E1    |                     | 32A                |                    |        |
| 00954   |        | XA222     | 69  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12017   |        | XA222     | 70  |      |        |           |     |      |             |      |       |       | TD201A | 02     | TD2000   | 01   | 8      | TS8              | E1    |                     | 33A                |                    |        |
| 05359   |        | XA222     | 71  |      | XA222  | 49        |     |      |             | 168  | 9     |       | SP1017 | 28     | TD2200   | 01   | 1      | TS8              | F1    |                     | 36A                |                    |        |
| 12096   |        | XA222     | 72  |      | XA237  | 52        |     |      |             | 168  | 9     |       | TD226A | 01     | TD2200   | 01   | 2      | TS8              | F1    |                     | 34A                |                    |        |
| 12093   |        | XA222     | 73  |      |        |           |     |      |             |      |       |       | TD223A | 02     | TD2200   | 01   | 3      | TS8              | F1    |                     | 36B                |                    |        |
| 12095   |        | XA222     | 74  |      |        |           |     |      |             |      |       |       | TD224A | 02     | TD2200   | 01   | 4      | TS8              | F1    |                     | 35B                |                    |        |
| 12101   |        | XA222     | 75  |      |        |           |     |      |             |      |       |       | TD228A | 02     | TD2200   | 01   | 5      | TS8              | F1    |                     | 37B                |                    |        |
| 12086   |        | XA222     | 76  |      | XA223  | 77        |     |      |             | 168  | 9     |       | TD2200 | 01     | TD2200   | 00   | 1      | TS8              | F1    |                     | 37A                | TD REG BIT 22 OR   |        |
| 12099   |        | XA222     | 77  |      |        |           |     |      |             |      |       |       | TD227A | 02     | TD2200   | 01   | 6      | TS8              | F1    |                     | 38B                |                    |        |
| 12090   |        | XA222     | 78  |      | XA214  | 72        |     |      |             | 168  | 9     |       | TD222A | 01     | TD2200   | 01   | 7      | TS8              | F1    |                     | 38A                |                    |        |
| 12089   |        | XA222     | 79  |      |        |           |     |      |             |      |       |       | TD221A | 02     | TD2200   | 01   | 8      | TS8              | F1    |                     | 39B                |                    |        |
| 00955   |        | XA222     | 80  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 10687   |        | XA223     | 01  |      |        |           |     |      |             |      |       |       | TD085A | 07     | TD138N   | 01   | 1      | TDD              | BN    |                     | 02B                |                    |        |
| 02129   |        | XA223     | 02  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 01B                |                    |        |
| 11200   |        | XA223     | 03  |      | XA220  | 08        |     |      |             | 168  | 9     |       | TD013A | 01     | TD138Q   | 01   | 1      | TDD              | BQ    |                     | 02A                |                    |        |
| 11124   |        | XA223     | 04  |      | XA125  | 72        |     |      |             | 168  | 9     |       | TD013A | 07     | TD138P   | 01   | 1      | TDD              | BP    |                     | 04A                |                    |        |
| 11775   |        | XA223     | 05  |      |        |           |     |      |             |      |       |       | TD1300 | 02     | TD138I   | 01   | 1      | TDD              | BI    |                     | 03B                |                    |        |
| 11123   |        | XA223     | 06  |      | XA223  | 04        |     |      |             | 168  | 9     |       | TD013A | 06     | TD128P   | 01   | 1      | TDD              | AP    |                     | 05A                |                    |        |
| 11760   |        | XA223     | 07  |      | XA224  | 05        |     |      |             | 168  | 9     |       | TD138Q | 03     | TD138Q   | 00   | 1      | TDD              | BQ    |                     | 03A                | TD REG BIT 13 SE   |        |
| 11743   |        | XA223     | 08  |      | XA424  | 76        |     |      |             | 168  | 9     |       | TD1200 | 01     | TD128I   | 01   | 1      | TDD              | AI    |                     | 06A                |                    |        |
| 11757   |        | XA223     | 09  |      |        |           |     |      |             |      |       |       | TD138P | 03     | TD138P   | 00   | 1      | TDD              | BP    |                     | 04B                | TD REG BIT 13 RE   |        |
| 10686   |        | XA223     | 10  |      | XA223  | 01        |     |      |             | 168  | 9     |       | TD085A | 06     | TD128N   | 01   | 1      | TDD              | AN    |                     | 07A                |                    |        |
| 11720   |        | XA223     | 11  |      | XA224  | 08        |     |      |             | 168  | 9     |       | TD128P | 01     | TD128P   | 00   | 1      | TDD              | AP    |                     | 05B                | TD REG BIT 12 RE   |        |
| 00412   |        | XA223     | 12  |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | TDD              |       |                     |                    |                    |        |
| 11729   |        | XA223     | 13  |      | XA321  | 08        |     |      |             | 168  | 9     |       | TD128Q | 05     | TD128Q   | 00   | 1      | TDD              | AQ    |                     | 06B                | TD REG BIT 12 SE   |        |
| 10678   |        | XA223     | 14  |      | XA223  | 26        |     |      |             | 168  | 9     |       | TD084A | 01     | TD158N   | 01   | 1      | TDD              | DN    |                     | 09A                |                    |        |
| 11197   |        | XA223     | 15  |      |        |           |     |      |             |      |       |       | TD012A | 02     | TD128Q   | 01   | 1      | TDD              | AQ    |                     | 07B                |                    |        |
| 02130   |        | XA223     | 16  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 20B                |                    |        |
| 11208   |        | XA223     | 17  |      | XA220  | 25        |     |      |             | 168  | 9     |       | TD015A | 01     | TD158Q   | 01   | 1      | TDD              | DQ    |                     | 08B                |                    |        |
| 11841   |        | XA223     | 18  |      |        |           |     |      |             |      |       |       | TD1500 | 02     | TD158I   | 01   | 1      | TDD              | DI    |                     | 10A                |                    |        |
| 11827   |        | XA223     | 19  |      | XA211  | 19        |     |      |             | 168  | 9     |       | TD158Q | 04     | TD158Q   | 00   | 1      | TDD              | DQ    |                     | 09B                | TD REG BIT 15 SE   |        |
| 11122   |        | XA223     | 20  |      | XA223  | 06        |     |      |             | 168  | 9     |       | TD013A | 05     | TD158P   | 01   | 1      | TDD              | DP    |                     | 11A                |                    |        |
| 11823   |        | XA223     | 21  |      |        |           |     |      |             |      |       |       | TD158P | 03     | TD158P   | 00   | 1      | TDD              | DP    |                     | 10B                | TD REG BIT 15 RE   |        |
| 11121   |        | XA223     | 22  |      | XA223  | 20        |     |      |             | 168  | 9     |       | TD013A | 04     | TD148P   | 01   | 1      | TDD              | CP    |                     | 12A                |                    |        |
| 11790   |        | XA223     | 23  |      |        |           |     |      |             |      |       |       | TD148P | 03     | TD148P   | 00   | 1      | TDD              | CP    |                     | 11B                | TD REG BIT 14 RE   |        |
| 11807   |        | XA223     | 24  |      | XA222  | 23        |     |      |             | 168  | 9     |       | TD1400 | 01     | TD148I   | 01   | 1      | TDD              | CI    |                     | 13A                |                    |        |
| 11794   |        | XA223     | 25  |      | XA211  | 26        |     |      |             | 168  | 9     |       | TD148Q | 04     | TD148Q   | 00   | 1      | TDD              | CQ    |                     | 12B                | TD REG BIT 14 SE   |        |
| 10679   |        | XA223     | 26  |      | XA230  | 30        |     |      |             | 168  | 9     |       | TD084A | 02     | TD148N   | 01   | 1      | TDD              | CN    |                     | 14A                |                    |        |
| CONNECTOR (XA223) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA223  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 127

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION   | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|--------|------|------------------|-------|---------------------|--------------------|----------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI-GROUP | CODE | COLOR |        |        |          |        |      |                  |       |                     |                    |                      |        |
| 11204   |        | XA223     | 27  |        | XA220     | 24  |      |             | 16B  | 9     |        | TDS14A | 01       | TD14BQ | 01   | 1                | TDD   | CQ                  | 13B                |                      |        |
| 00413   |        | XA223     | 28  |        |           |     |      |             |      |       |        | +5V    | 01       |        |      | 1                | TDD   |                     |                    |                      |        |
| 11216   |        | XA223     | 29  |        | XA220     | 37  |      |             | 16B  | 9     |        | TDS17A | 01       | TD17BQ | 01   | 1                | TDD   | FQ                  | 14B                |                      |        |
| 10667   |        | XA223     | 30  |        |           |     |      |             |      |       |        | TDC67A | 03       | TD17BN | 01   | 1                | TDD   | FN                  | 15A                |                      |        |
| 11897   |        | XA223     | 31  |        | XA248     | 48  |      |             | 16B  | 9     |        | TD17BQ | 04       | TD17BQ | 00   | 1                | TDD   | FQ                  | 15B                | TD REG BIT 17 SE     |        |
| 02131   |        | XA223     | 32  |        |           |     |      |             |      |       |        | GND    | 01       |        |      | 1                | TDD   |                     | 21B                |                      |        |
| 11893   |        | XA223     | 33  |        |           |     |      |             |      |       |        | TD17BP | 06       | TD17BP | 00   | 1                | TDD   | FP                  | 16B                | TD REG BIT 17 RE     |        |
| 11916   |        | XA223     | 34  |        |           |     |      |             |      |       |        | TD1700 | 02       | TD17BI | 01   | 1                | TDD   | FI                  | 16A                |                      |        |
| 11856   |        | XA223     | 35  |        | XA304     | 07  |      |             | 16B  | 9     |        | TD16BP | 03       | TD16BP | 00   | 1                | TDD   | EP                  | 17B                | TD REG BIT 16 RE D06 |        |
| 11104   |        | XA223     | 36  |        | XA223     | 38  |      |             | 16B  | 9     |        | TDRSBA | 03       | TD17BP | 01   | 1                | TDD   | FP                  | 17A                |                      |        |
| 11861   |        | XA223     | 37  |        | XA315     | 34  |      |             | 16B  | 9     |        | TD16BQ | 05       | TD16BQ | 00   | 1                | TDD   | EQ                  | 18B                | TD REG BIT 16 SE     |        |
| 11105   |        | XA223     | 38  |        | XA223     | 50  |      |             | 16B  | 9     |        | TDRSBA | 04       | TD16BP | 01   | 1                | TDD   | EP                  | 18A                |                      |        |
| 11212   |        | XA223     | 39  |        | XA220     | 40  |      |             | 16B  | 9     |        | TDS16A | 01       | TD16BQ | 01   | 1                | TDD   | EQ                  | 19B                |                      |        |
| 11877   |        | XA223     | 40  |        |           |     |      |             |      |       |        | TD1600 | 02       | TD16BI | 01   | 1                | TDD   | EI                  | 19A                |                      |        |
| 11224   |        | XA223     | 41  |        | XA220     | 49  |      |             | 16B  | 9     |        | TDS19A | 01       | TD19BQ | 01   | 1                | TDD   | HQ                  | 22B                |                      |        |
| 10666   |        | XA223     | 42  |        | XA223     | 30  |      |             | 16B  | 9     |        | TDC67A | 02       | TD16BN | 01   | 1                | TDD   | EN                  | 20A                |                      |        |
| 11968   |        | XA223     | 43  |        | XA224     | 50  |      |             | 16B  | 9     |        | TD19BQ | 03       | TD19BQ | 00   | 1                | TDD   | HQ                  | 23B                | TD REG BIT 19 SE     |        |
| 02132   |        | XA223     | 44  |        |           |     |      |             |      |       |        | GND    | 01       |        |      | 1                | TDD   |                     | 27A                |                      |        |
| 11965   |        | XA223     | 45  |        |           |     |      |             |      |       |        | TD19BP | 03       | TD19BP | 00   | 1                | TDD   | HP                  | 24B                | TD REG BIT 19 RE     |        |
| 10676   |        | XA223     | 46  |        | XA231     | 60  |      |             | 16B  | 9     |        | TDC83A | 06       | TD19BN | 01   | 1                | TDD   | HN                  | 21A                |                      |        |
| 11931   |        | XA223     | 47  |        |           |     |      |             |      |       |        | TD18BP | 05       | TD18BP | 00   | 1                | TDD   | GP                  | 25B                | TD REG BIT 18 RE     |        |
| 11984   |        | XA223     | 48  |        |           |     |      |             |      |       |        | TD1900 | 02       | TD19BI | 01   | 1                | TDD   | HI                  | 22A                |                      |        |
| 11934   |        | XA223     | 49  |        | XA224     | 56  |      |             | 16B  | 9     |        | TD18BQ | 03       | TD18BQ | 00   | 1                | TDD   | GQ                  | 26B                | TD REG BIT 18 SE     |        |
| 11106   |        | XA223     | 50  |        | XA223     | 52  |      |             | 16B  | 9     |        | TDRSBA | 05       | TD19BP | 01   | 1                | TDD   | HP                  | 23A                |                      |        |
| 11220   |        | XA223     | 51  |        | XA220     | 54  |      |             | 16B  | 9     |        | TDS18A | 01       | TD18BQ | 01   | 1                | TDD   | GQ                  | 27B                |                      |        |
| 11107   |        | XA223     | 52  |        | XA223     | 64  |      |             | 16B  | 9     |        | TDRSBA | 06       | TD18BP | 01   | 1                | TDD   | GP                  | 24A                |                      |        |
| 11232   |        | XA223     | 53  |        | XA220     | 63  |      |             | 16B  | 9     |        | TDS21A | 01       | TD21BQ | 01   | 1                | TDD   | KQ                  | 28B                |                      |        |
| 11952   |        | XA223     | 54  |        |           |     |      |             |      |       |        | TD1800 | 02       | TD18BI | 01   | 1                | TDD   | GI                  | 25A                |                      |        |
| 12037   |        | XA223     | 55  |        | XA321     | 62  |      |             | 16B  | 9     |        | TD21BQ | 05       | TD21BQ | 00   | 1                | TDD   | KQ                  | 29B                | TD REG BIT 21 SE     |        |
| 10675   |        | XA223     | 56  |        | XA223     | 46  |      |             | 16B  | 9     |        | TDC83A | 05       | TD18BN | 01   | 1                | TDD   | GN                  | 26A                |                      |        |
| 12032   |        | XA223     | 57  |        |           |     |      |             |      |       |        | TD21BP | 03       | TD21BP | 00   | 1                | TDD   | KP                  | 30B                | TD REG BIT 21 RE     |        |
| 02133   |        | XA223     | 58  |        |           |     |      |             |      |       |        | GND    | 01       |        |      | 1                | TDD   |                     | 40A                |                      |        |
| 11997   |        | XA223     | 59  |        |           |     |      |             |      |       |        | TD20BP | 03       | TD20BP | 00   | 1                | TDD   | JP                  | 31B                |                      |        |
| 10674   |        | XA223     | 60  |        | XA223     | 56  |      |             | 16B  | 9     |        | TDC83A | 04       | TD21BN | 01   | 1                | TDD   | KN                  | 28A                |                      |        |
| 12002   |        | XA223     | 61  |        | XA321     | 68  |      |             | 16B  | 9     |        | TD20BQ | 05       | TD20BQ | 00   | 1                | TDD   | JQ                  | 32B                | TD REG BIT 20 SE     |        |
| 12051   |        | XA223     | 62  |        |           |     |      |             |      |       |        | TD2100 | 02       | TD21BI | 01   | 1                | TDD   | KI                  | 29A                |                      |        |
| 11228   |        | XA223     | 63  |        | XA220     | 66  |      |             | 16B  | 9     |        | TDS20A | 01       | TD20BQ | 01   | 1                | TDD   | JQ                  | 33B                |                      |        |
| 11108   |        | XA223     | 64  |        | XA223     | 66  |      |             | 16B  | 9     |        | TDRSBA | 07       | TD21BP | 01   | 1                | TDD   | KP                  | 30A                |                      |        |
| 11240   |        | XA223     | 65  |        | XA220     | 71  |      |             | 16B  | 9     |        | TDS23A | 01       | TD23BQ | 01   | 1                | TDD   | MQ                  | 34B                |                      |        |
| 11109   |        | XA223     | 66  |        |           |     |      |             |      |       |        | TDRSBA | 08       | TD20BP | 01   | 1                | TDD   | JP                  | 31A                |                      |        |
| 02134   |        | XA223     | 67  |        |           |     |      |             |      |       |        | GND    | 01       |        |      | 1                | TDD   |                     | 40B                |                      |        |
| 12015   |        | XA223     | 68  |        |           |     |      |             |      |       |        | TD2000 | 02       | TD20BI | 01   | 1                | TDD   | JI                  | 32A                |                      |        |
| 12104   |        | XA223     | 69  |        |           |     |      |             |      |       |        | TD23BP | 03       | TD23BP | 00   | 1                | TDD   | MP                  | 35A                | TD REG BIT 23 RE     |        |
| 10673   |        | XA223     | 70  |        | XA223     | 60  |      |             | 16B  | 9     |        | TDC83A | 03       | TD20BN | 01   | 1                | TDD   | JN                  | 33A                |                      |        |
| 12122   |        | XA223     | 71  |        |           |     |      |             |      |       |        | TD2300 | 02       | TD23BI | 01   | 1                | TDD   | MI                  | 36A                |                      |        |
| 10672   |        | XA223     | 72  |        | XA223     | 70  |      |             | 16B  | 9     |        | TDC83A | 02       | TD23BN | 01   | 1                | TDD   | MN                  | 34A                |                      |        |
| 11116   |        | XA223     | 73  |        | XA223     | 75  |      |             | 16B  | 9     |        | TDRSCA | 07       | TD23BP | 01   | 1                | TDD   | MP                  | 36B                |                      |        |
| 12109   |        | XA223     | 74  |        | XA321     | 71  |      |             | 16B  | 9     |        | TD23BQ | 05       | TD23BQ | 00   | 1                | TDD   | MQ                  | 35B                | TD REG BIT 23 SE     |        |
| 11117   |        | XA223     | 75  |        |           |     |      |             |      |       |        | TDRSCA | 08       | TD22BP | 01   | 1                | TDD   | LP                  | 37B                |                      |        |
| 12087   |        | XA223     | 76  |        | XA226     | 76  |      |             | 16B  | 9     |        | TD22BP | 02       | TD22BP | 00   | 1                | TDD   | LP                  | 37A                | TD REG BIT 22 RE     |        |
| CONNECTOR XA223 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |        |          |        |      |                  |       |                     |                    |                      |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA223  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 128

| RECORD<br>NUMB-<br>R                              | FROM   |           |     |       | TO     |           |     |       | WIRE           |      |       |       | SIGNAL  | SEQ<br>NO | EQUATION | TERM | FACT | CKT<br>OR<br>CHIP<br>TYPE | GROUP | LOAD<br>OR<br>POWER<br>PLANE | TEST<br>POINTS<br>AND/OR | SIGNAL<br>DESCRIPTION | ECO<br>NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|----------------|------|-------|-------|---------|-----------|----------|------|------|---------------------------|-------|------------------------------|--------------------------|-----------------------|-----------|
|   | PREFIX | CONNECTOR | PIN | DR TO | PREFIX | CONNECTOR | PIN | DR TO | MULTI<br>GROUP | CODE | COLOR | IDENT |         |           |          |      |      |                           |       |                              |                          |                       |           |
| 12087   |        | XA223     | 77  |       |        |           |     |       |                |      |       |       | TD2200  | 02        | TD22B1   | 01   | 1    | TDD                       | L1    |                              | 38B                      |                       |           |
| 12073   |        | XA223     | 78  |       | XA321  | 77        |     |       | 16B            | 9    |       |       | TD22BQ  | 05        | TD22BQ   | 00   | 1    | TDD                       | LQ    |                              | 38A                      | TD REG BIT 22 SE      |           |
| 10671   |        | XA223     | 79  |       | XA223  | 72        |     |       | 16B            | 9    |       |       | TD023A  | 01        | TD22BN   | 01   | 1    | TDD                       | LN    |                              | 39B                      |                       |           |
| 11236   |        | XA223     | 80  |       | XA220  | 80        |     |       | 16B            | 9    |       |       | TD522A  | 01        | TD22BQ   | 01   | 1    | TDD                       | LQ    |                              | 39A                      |                       |           |
| 17154   |        | XA224     | 01  |       | XA110  | 34        |     |       | 16B            | 9    |       |       | TF1213A | 01        | TF1213A  | 00   | 1    | TQ2                       | A2    |                              | 02B                      | PARITY 12.13          |           |
| 02135   |        | XA224     | 02  |       |        |           |     |       |                |      |       |       | GND     | 01        |          |      |      | TQ2                       |       |                              | 01A                      |                       |           |
| 11727   |        | XA224     | 03  |       | XA224  | 13        |     |       | 16B            | 9    |       |       | TD12BQ  | 03        | TF045A   | 01   | 1    | TQ2                       | A3    |                              | 02A                      |                       |           |
| 11726   |        | XA224     | 04  |       | XA224  | 03        |     |       | 16B            | 9    |       |       | TD12BQ  | 02        | TF1213A  | 01   | 1    | TQ2                       | A2    |                              | 04A                      |                       |           |
| 11761   |        | XA224     | 05  |       | XA225  | 07        |     |       | 16B            | 9    |       |       | TD13BQ  | 04        | TF1213A  | 01   | 2    | TQ2                       | A2    |                              | 03B                      |                       |           |
| 17160   |        | XA224     | 06  |       | XA110  | 30        |     |       | 16B            | 9    |       |       | TF1312A | 01        | TF1312A  | 00   | 1    | TQ2                       | A1    |                              | 05A                      | PARITY 12*.13*        |           |
| 14399   |        | XA224     | 07  |       | XA224  | 17        |     |       | 16B            | 9    |       |       | TFMULA0 | 02        | TF045A   | 01   | 2    | TQ2                       | A3    |                              | 03A                      |                       |           |
| 11721   |        | XA224     | 08  |       | XA226  | 09        |     |       | 16B            | 9    |       |       | TD12BP  | 02        | TF1312A  | 01   | 1    | TQ2                       | A1    |                              | 06A                      |                       |           |
| 13021   |        | XA224     | 09  |       | XA243  | 68        |     |       | 16B            | 9    |       |       | TF045A  | 01        | TF045A   | 00   | 1    | TQ2                       | A3    |                              | 04B                      | TD12 TO TE04 GAT      |           |
| 11756   |        | XA224     | 10  |       | XA223  | 09        |     |       | 16B            | 9    |       |       | TD13BP  | 02        | TF1312A  | 01   | 2    | TQ2                       | A1    |                              | 07A                      |                       |           |
| 16887   |        | XA224     | 11  |       | XA225  | 11        |     |       | 16B            | 9    |       |       | TFWTDB0 | 07        | TF123A   | 01   | 1    | TQ2                       | A4    |                              | 05B                      |                       |           |
| 00414   |        | XA224     | 12  |       |        |           |     |       |                |      |       |       | +5V     | 01        |          |      |      | TQ2                       |       |                              |                          |                       |           |
| 11728   |        | XA224     | 13  |       | XA223  | 13        |     |       | 16B            | 9    |       |       | TD12BQ  | 04        | TF123A   | 01   | 2    | TQ2                       | A4    |                              | 06B                      |                       |           |
| 17175   |        | XA224     | 14  |       | XA110  | 40        |     |       | 16B            | 9    |       |       | TF1514A | 01        | TF1514A  | 00   | 1    | TQ2                       | B2    |                              | 09A                      | PARITY 14*.15*        |           |
| 13113   |        | XA224     | 15  |       | XA241  | 74        |     |       | 16B            | 9    |       |       | TF123A  | 01        | TF123A   | 00   | 1    | TQ2                       | A4    |                              | 07B                      | TD12 TO TE12 WOR      |           |
| 02136   |        | XA224     | 16  |       |        |           |     |       |                |      |       |       | GND     | 01        |          |      |      | TQ2                       |       |                              | 01B                      |                       |           |
| 14400   |        | XA224     | 17  |       | XA225  | 26        |     |       | 16B            | 9    |       |       | TFMULA0 | 03        | TF075A   | 01   | 1    | TQ2                       | B3    |                              | 08B                      |                       |           |
| 11822   |        | XA224     | 18  |       | XA223  | 21        |     |       | 16B            | 9    |       |       | TD15BP  | 02        | TF1514A  | 01   | 1    | TQ2                       | B2    |                              | 10A                      |                       |           |
| 11826   |        | XA224     | 19  |       | XA223  | 19        |     |       | 16B            | 9    |       |       | TD15BQ  | 03        | TF075A   | 01   | 2    | TQ2                       | B3    |                              | 09B                      |                       |           |
| 11789   |        | XA224     | 20  |       | XA223  | 23        |     |       | 16B            | 9    |       |       | TD14BP  | 02        | TF1514A  | 01   | 2    | TQ2                       | B2    |                              | 11A                      |                       |           |
| 13069   |        | XA224     | 21  |       | XA247  | 38        |     |       | 16B            | 9    |       |       | TF075A  | 01        | TF075A   | 00   | 1    | TQ2                       | B3    |                              | 10B                      | TD15 TO TE07 GAT      |           |
| 17165   |        | XA224     | 22  |       |        |           |     |       |                |      |       |       | TF1415A | 03        | TF1415A  | 00   | 1    | TQ2                       | B1    |                              | 12A                      | PARITY 14-15          |           |
| 11825   |        | XA224     | 23  |       | XA224  | 19        |     |       | 16B            | 9    |       |       | TD15BQ  | 02        | TF153A   | 01   | 1    | TQ2                       | B4    |                              | 11B                      |                       |           |
| 11833   |        | XA224     | 24  |       | XA419  | 70        |     |       | 16B            | 9    |       |       | TD15C0  | 02        | TF1415A  | 01   | 1    | TQ2                       | B1    |                              | 13A                      |                       |           |
| 16886   |        | XA224     | 25  |       | XA224  | 11        |     |       | 16B            | 9    |       |       | TFWTDB0 | 06        | TF153A   | 01   | 2    | TQ2                       | B4    |                              | 12B                      |                       |           |
| 11801   |        | XA224     | 26  |       |        |           |     |       |                |      |       |       | TD14C0  | 02        | TF1415A  | 01   | 2    | TQ2                       | B1    |                              | 14A                      |                       |           |
| 13135   |        | XA224     | 27  |       | XA241  | 66        |     |       | 16B            | 9    |       |       | TF153A  | 01        | TF153A   | 00   | 1    | TQ2                       | B4    |                              | 13B                      | TD15 TO TE15 WOR      |           |
| 00415   |        | XA224     | 28  |       |        |           |     |       |                |      |       |       | +5V     | 01        |          |      |      | TQ2                       |       |                              |                          |                       |           |
| 11860   |        | XA224     | 29  |       | XA223  | 37        |     |       | 16B            | 9    |       |       | TD16BQ  | 04        | TF163A   | 01   | 1    | TQ2                       | C3    |                              | 14B                      |                       |           |
| 17180   |        | XA224     | 30  |       |        |           |     |       |                |      |       |       | TF1617A | 03        | TF1617A  | 00   | 1    | TQ2                       | C2    |                              | 15A                      | PARITY 16.17          |           |
| 16891   |        | XA224     | 31  |       | XA224  | 35        |     |       | 16B            | 9    |       |       | TFWTDC0 | 02        | TF163A   | 01   | 2    | TQ2                       | C3    |                              | 15B                      |                       |           |
| 02137   |        | XA224     | 32  |       |        |           |     |       |                |      |       |       | GND     | 01        |          |      |      | TQ2                       |       |                              | 20B                      |                       |           |
| 13143   |        | XA224     | 33  |       | XA241  | 50        |     |       | 16B            | 9    |       |       | TF163A  | 01        | TF163A   | 00   | 1    | TQ2                       | C3    |                              | 16B                      | TD16 TO TE16 WOR      |           |
| 11869   |        | XA224     | 34  |       | XA226  | 31        |     |       | 16B            | 9    |       |       | TD16C0  | 04        | TF1617A  | 01   | 1    | TQ2                       | C2    |                              | 16A                      |                       |           |
| 16892   |        | XA224     | 35  |       | XA224  | 48        |     |       | 16B            | 9    |       |       | TFWTDC0 | 03        | TF173A   | 01   | 1    | TQ2                       | C4    |                              | 17B                      |                       |           |
| 11907   |        | XA224     | 36  |       | XA225  | 37        |     |       | 16B            | 9    |       |       | TD17C0  | 06        | TF1617A  | 01   | 2    | TQ2                       | C2    |                              | 17A                      |                       |           |
| 11906   |        | XA224     | 37  |       | XA224  | 36        |     |       | 16B            | 9    |       |       | TD17C0  | 05        | TF173A   | 01   | 2    | TQ2                       | C4    |                              | 18B                      |                       |           |
| 17192   |        | XA224     | 38  |       |        |           |     |       |                |      |       |       | TF1716A | 03        | TF1716A  | 00   | 1    | TQ2                       | C1    |                              | 18A                      | PARITY 16*.17*        |           |
| 13151   |        | XA224     | 39  |       | XA241  | 54        |     |       | 16B            | 9    |       |       | TF173A  | 01        | TF173A   | 00   | 1    | TQ2                       | C4    |                              | 19B                      | TD17 TO TE17 WOR      |           |
| 11855   |        | XA224     | 40  |       | XA223  | 35        |     |       | 16B            | 9    |       |       | TD16BP  | 02        | TF1716A  | 01   | 1    | TQ2                       | C1    |                              | 19A                      |                       |           |
| 10104   |        | XA224     | 41  |       | XA227  | 77        |     |       | 16B            | 9    |       |       | TC04BQ  | 03        | TD041A   | 01   | 1    | TQ2                       | D3    |                              | 22B                      |                       |           |
| 11892   |        | XA224     | 42  |       | XA223  | 33        |     |       | 16B            | 9    |       |       | TD17BP  | 05        | TF1716A  | 01   | 2    | TQ2                       | C1    |                              | 20A                      |                       |           |
| 08993   |        | XA224     | 43  |       | XA140  | 46        |     |       | 16B            | 9    |       |       | TFBLX20 | 03        | TD041A   | 01   | 2    | TQ2                       | D3    |                              | 23B                      |                       |           |
| 02138   |        | XA224     | 44  |       |        |           |     |       |                |      |       |       | GND     | 01        |          |      |      | TQ2                       |       |                              | 21B                      |                       |           |
| CONNECTOR (XA224) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |                |      |       |       |         |           |          |      |      |                           |       |                              |                          |                       |           |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA224  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 129

| RECORD NUMBER | FROM   |           |       |    | TO                              |           |     |    | WIRE        |      |       |       | SFC INST. WISE | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION                   | ECO NO |
|---------------|--------|-----------|-------|----|---------------------------------|-----------|-----|----|-------------|------|-------|-------|----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------------------------|--------|
|               | PREFIX | CONNECTOR | PIN   | SH | PREFIX                          | CONNECTOR | PIN | SH | MULTI-GROUP | CODE | COLOR | IDENT |                |        |        |          |      |        |                  |       |                     |                    |                                      |        |
| 11476         |        | XA224     | 45    |    | XA228                           | 30        |     |    |             | 16B  | 9     |       |                | TD041A | 01     | TD041A   | 00   | 1      | TQ2              | D3    |                     | 24B                | XFER TC04 TO TDQ<br>TD19 TO TE19 WOR |        |
| 13167         |        | XA224     | 46    |    | XA241                           | 42        |     |    |             | 16B  | 9     |       |                | TF193A | 01     | TF193A   | 00   | 1      | TQ2              | D2    |                     | 21A                |                                      |        |
| 11095         |        | XA224     | 47    |    |                                 |           |     |    |             |      |       |       |                | TDQ06A | 02     | TD2480   | 01   | 1      | TQ2              | D4    |                     | 25B                |                                      |        |
| 16893         |        | XA224     | 48    |    | XA224                           | 54        |     |    |             | 16B  | 9     |       |                | TWTDCO | 04     | TF193A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                                      |        |
| 11099         |        | XA224     | 49    |    |                                 |           |     |    |             |      |       |       |                | TDQ14A | 02     | TD2480   | 01   | 2      | TQ2              | D4    |                     | 26B                |                                      |        |
| 11969         |        | XA224     | 50    |    | XA225                           | 47        |     |    |             | 16B  | 9     |       |                | TD198Q | 04     | TF193A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                                      |        |
| 12172         |        | XA224     | 51    |    | XA220                           | 55        |     |    |             | 16B  | 9     |       |                | TD2480 | 01     | TD2480   | 00   | 1      | TQ2              | D4    |                     | 27B                | Q REG SEL TC06/1<br>TD18 TO TE18 WOR |        |
| 13159         |        | XA224     | 52    |    | XA241                           | 36        |     |    |             | 16B  | 9     |       |                | TF183A | 01     | TF183A   | 00   | 1      | TQ2              | D1    |                     | 24A                |                                      |        |
| 11096         |        | XA224     | 53    |    | XA323                           | 45        |     |    |             | 16B  | 9     |       |                | TDQ07A | 01     | TD2580   | 01   | 1      | TQ2              | E3    |                     | 28B                |                                      |        |
| 16894         |        | XA224     | 54    |    | XA224                           | 62        |     |    |             | 16B  | 9     |       |                | TWTDCO | 05     | TF183A   | 01   | 1      | TQ2              | D1    |                     | 25A                |                                      |        |
| 11100         |        | XA224     | 55    |    | XA323                           | 57        |     |    |             | 16B  | 9     |       |                | TDQ15A | 01     | TD2580   | 01   | 2      | TQ2              | E3    |                     | 29B                |                                      |        |
| 11935         |        | XA224     | 56    |    | XA225                           | 56        |     |    |             | 16B  | 9     |       |                | TD188Q | 04     | TF183A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                                      |        |
| 12209         |        | XA224     | 57    |    | XA220                           | 62        |     |    |             | 16B  | 9     |       |                | TD2580 | 01     | TD2580   | 00   | 1      | TQ2              | E3    |                     | 30B                | Q REG SEL TC07/1                     |        |
| 02139         |        | XA224     | 58    |    |                                 |           |     |    |             |      |       |       |                | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                                      |        |
| 16723         |        | XA224     | 59    |    |                                 |           |     |    |             |      |       |       |                | TU06A0 | 02     | TD062A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                                      |        |
| 13183         |        | XA224     | 60    |    | XA241                           | 26        |     |    |             | 16B  | 9     |       |                | TF213A | 01     | TF213A   | 00   | 1      | TQ2              | E2    |                     | 28A                | TD21 TO TE21 WOR                     |        |
| 08965         |        | XA224     | 61    |    | XA139                           | 26        |     |    |             | 16B  | 9     |       |                | TBLM30 | 03     | TD062A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                                      |        |
| 16895         |        | XA224     | 62    |    | XA224                           | 68        |     |    |             | 16B  | 9     |       |                | TWTDCO | 06     | TF213A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                                      |        |
| 11551         |        | XA224     | 63    |    |                                 |           |     |    |             |      |       |       |                | TD062A | 02     | TD062A   | 00   | 1      | TQ2              | E4    |                     | 33B                | UPDATE TC06 TO T                     |        |
| 12035         |        | XA224     | 64    |    | XA225                           | 59        |     |    |             | 16B  | 9     |       |                | TD218Q | 03     | TF213A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                                      |        |
| 16735         |        | XA224     | 65    |    |                                 |           |     |    |             |      |       |       |                | TU093A | 02     | TU09A0   | 01   | 1      | TQ2              | F3    |                     | 34B                |                                      |        |
| 13175         |        | XA224     | 66    |    | XA241                           | 20        |     |    |             | 16B  | 9     |       |                | TF203A | 01     | TF203A   | 00   | 1      | TQ2              | E1    |                     | 31A                | TD20 TO TE20 WOR                     |        |
| 02140         |        | XA224     | 67    |    |                                 |           |     |    |             |      |       |       |                | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                                      |        |
| 16896         |        | XA224     | 68    |    | XA224                           | 71        |     |    |             | 16B  | 9     |       |                | TWTDCO | 07     | TF203A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                                      |        |
| 16733         |        | XA224     | 69    |    |                                 |           |     |    |             |      |       |       |                | TU09A0 | 02     | TU09A0   | 00   | 1      | TQ2              | F3    |                     | 35A                | BL UPDATE TC09.                      |        |
| 12000         |        | XA224     | 70    |    | XA225                           | 61        |     |    |             | 16B  | 9     |       |                | TD208Q | 03     | TF203A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                                      |        |
| 16897         |        | XA224     | 71    |    | XA224                           | 79        |     |    |             | 16B  | 9     |       |                | TWTDCO | 08     | TF233A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                                      |        |
| 13199         |        | XA224     | 72    |    | XA241                           | 06        |     |    |             | 16B  | 9     |       |                | TF233A | 01     | TF233A   | 00   | 1      | TQ2              | F2    |                     | 34A                | TD23 TO TE23 WOR                     |        |
| 12108         |        | XA224     | 73    |    | XA223                           | 74        |     |    |             | 16B  | 9     |       |                | TD238Q | 04     | TF233A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                                      |        |
| 16736         |        | XA224     | 74    |    | XA326                           | 63        |     |    |             | 16B  | 9     |       |                | TU094A | 01     | TU09A0   | 01   | 2      | TQ2              | F3    |                     | 35B                |                                      |        |
| 13191         |        | XA224     | 75    |    | XA241                           | 01        |     |    |             | 16B  | 9     |       |                | TF223A | 01     | TF223A   | 00   | 1      | TQ2              | F1    |                     | 37B                | TD22 TO TE22 WOR                     |        |
| 14016         |        | XA224     | 76    |    | XA350                           | 39        |     |    |             | 16B  | 9     |       |                | TLUGAA | 01     | TLUGA0   | 01   | 1      | TQ2              | F4    |                     | 37A                |                                      |        |
| 12072         |        | XA224     | 77    |    | XA223                           | 78        |     |    |             | 16B  | 9     |       |                | TD228Q | 04     | TF223A   | 01   | 1      | TQ2              | F1    |                     | 38B                |                                      |        |
| 14150         |        | XA224     | 78    |    |                                 |           |     |    |             |      |       |       |                | TMLUAA | 02     | TLUGA0   | 01   | 2      | TQ2              | F4    |                     | 38A                |                                      |        |
| 16898         |        | XA224     | 79    |    |                                 |           |     |    |             |      |       |       |                | TWTDCO | 09     | TF223A   | 01   | 2      | TQ2              | F1    |                     | 39B                |                                      |        |
| 14027         |        | XA224     | 80    |    |                                 |           |     |    |             |      |       |       |                | TLUGA0 | 09     | TLUGA0   | 00   | 1      | TQ2              | F4    |                     | 39A                | TD16-23 TO TE00-                     |        |
|               |        |           |       |    |                                 |           |     |    |             |      |       |       |                |        |        |          |      |        |                  |       |                     |                    |                                      |        |
| 10326         |        | XA225     | 01    |    | XA314                           | 42        |     |    |             | 16B  | 9     |       |                | TC151A | 01     | TC151A   | 00   | 1      | TQ2              | A2    |                     | 02B                | DFRO BANK ADD TO                     |        |
| 02141         |        | XA225     | 02    |    |                                 |           |     |    |             |      |       |       |                | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                                      |        |
| 14398         |        | XA225     | 03    |    | XA224                           | 07        |     |    |             | 16B  | 9     |       |                | TMULAA | 01     | TF055A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                                      |        |
| 11896         |        | XA225     | 04    |    | XA223                           | 31        |     |    |             | 16B  | 9     |       |                | TD178Q | 03     | TC151A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                                      |        |
| 16459         |        | XA225     | 05    |    | XA206                           | 61        |     |    |             | 16B  | 9     |       |                | TS288Q | 07     | TC151A   | 01   | 2      | TQ2              | A2    |                     | 03B                |                                      |        |
| 10304         |        | XA225     | 06    |    | XA320                           | 03        |     |    |             | 16B  | 9     |       |                | TC141A | 01     | TC141A   | 00   | 1      | TQ2              | A1    |                     | 05A                | DFRO BANK ADD TO                     |        |
| 11762         |        | XA225     | 07    |    | XA225                           | 13        |     |    |             | 16B  | 9     |       |                | TD138Q | 05     | TF055A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                                      |        |
| 11858         |        | XA225     | 08    |    | XA225                           | 29        |     |    |             | 16B  | 9     |       |                | TD168Q | 02     | TC141A   | 01   | 1      | TQ2              | A1    |                     | 06A                |                                      |        |
| 13037         |        | XA225     | 09    |    | XA243                           | 78        |     |    |             | 16B  | 9     |       |                | TF055A | 01     | TF055A   | 00   | 1      | TQ2              | A3    |                     | 04B                | TD13 TO TE05 GAT                     |        |
| 16467         |        | XA225     | 10    |    |                                 |           |     |    |             |      |       |       |                | TS28F0 | 04     | TC141A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                                      |        |
| 16888         |        | XA225     | 11    |    | XA138                           | 72        |     |    |             | 16B  | 9     |       |                | TWT0B0 | 08     | TF133A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                                      |        |
| 00416         |        | XA225     | 12    |    |                                 |           |     |    |             |      |       |       |                | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                                      |        |
|               |        | CONNECTOR | XA225 |    | CONTINUED ON THE NEXT PAGE **** |           |     |    |             |      |       |       |                |        |        |          |      |        |                  |       |                     |                    |                                      |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA225  
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| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SFQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SMTC | PREFIX | CONNECTOR | PIN | SMTC | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 11763         |        | XA225     | 13                              |      | XA126  | 20        |     |      |             | 168  | 9     |       | TD13BQ        | 06     | TF133A | 01       | 2    | TQ2    | A4               |       | 06B                 |                    |                    |        |
| 13129         |        | XA225     | 14                              |      | XA241  | 64        |     |      |             | 168  | 9     |       | TF143A        | 01     | TF143A | 00       | 1    | TQ2    | B2               |       | 09A                 | TD14 TO TE14 WOR   |                    |        |
| 13121         |        | XA225     | 15                              |      | XA241  | 79        |     |      |             | 168  | 9     |       | TF133A        | 01     | TF133A | 00       | 1    | TQ2    | A4               |       | 07B                 | TD13 TO TE13 WOR   |                    |        |
| 02142         |        | XA225     | 16                              |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | TQ2    |                  |       | 01B                 |                    |                    |        |
| 05349         |        | XA225     | 17                              |      | XA225  | 23        |     |      |             | 168  | 9     |       | SPI017        | 18     | KOR220 | 01       | 1    | TQ2    | B3               |       | 08B                 |                    |                    |        |
| 11792         |        | XA225     | 18                              |      | XA225  | 24        |     |      |             | 168  | 9     |       | TD14BQ        | 02     | TF143A | 01       | 1    | TQ2    | B2               |       | 10A                 |                    |                    |        |
| 17062         |        | XA225     | 19                              |      | XA225  | 25        |     |      |             | 168  | 9     |       | TOFS2A        | 01     | KOR220 | 01       | 2    | TQ2    | B3               |       | 09B                 |                    |                    |        |
| 16885         |        | XA225     | 20                              |      | XA224  | 25        |     |      |             | 168  | 9     |       | TWT0B0        | 05     | TF143A | 01       | 2    | TQ2    | B2               |       | 11A                 |                    |                    |        |
| 04426         |        | XA225     | 21                              |      | XA212  | 25        |     |      |             | 168  | 9     |       | KOR220        | 01     | KOR220 | 00       | 1    | TQ2    | B3               |       | 10B                 |                    |                    |        |
| 13053         |        | XA225     | 22                              |      | XA247  | 54        |     |      |             | 168  | 9     |       | TF065A        | 01     | TF065A | 00       | 1    | TQ2    | B1               |       | 12A                 | TD14 TO TE06 GAT   |                    |        |
| 05350         |        | XA225     | 23                              |      | XA225  | 34        |     |      |             | 168  | 9     |       | SPI017        | 19     | KOR210 | 01       | 1    | TQ2    | B4               |       | 11B                 |                    |                    |        |
| 11793         |        | XA225     | 24                              |      | XA223  | 25        |     |      |             | 168  | 9     |       | TD14BQ        | 03     | TF065A | 01       | 1    | TQ2    | B1               |       | 13A                 |                    |                    |        |
| 17063         |        | XA225     | 25                              |      | XA225  | 36        |     |      |             | 168  | 9     |       | TOFS2A        | 02     | KOR210 | 01       | 2    | TQ2    | B4               |       | 12B                 |                    |                    |        |
| 14401         |        | XA225     | 26                              |      | XA230  | 55        |     |      |             | 168  | 9     |       | TMULAO        | 04     | TF065A | 01       | 2    | TQ2    | B1               |       | 14A                 |                    |                    |        |
| 04425         |        | XA225     | 27                              |      |        |           |     |      |             |      |       |       | KOR210        | 12     | KOR210 | 03       | 1    | TQ2    | B4               |       | 13B                 |                    |                    |        |
| 00417         |        | XA225     | 28                              |      |        |           |     |      |             |      |       |       | +5V           | 01     |        |          |      | TQ2    |                  |       |                     |                    |                    |        |
| 11859         |        | XA225     | 29                              |      | XA224  | 29        |     |      |             | 168  | 9     |       | TD16BQ        | 03     | TF006A | 01       | 1    | TQ2    | C3               |       | 14B                 |                    |                    |        |
| 04448         |        | XA225     | 30                              |      |        |           |     |      |             |      |       |       | KOR230        | 11     | KOR230 | 00       | 1    | TQ2    | C2               |       | 15A                 |                    |                    |        |
| 14019         |        | XA225     | 31                              |      | XA225  | 35        |     |      |             | 168  | 9     |       | TLUGAO        | 01     | TF006A | 01       | 2    | TQ2    | C3               |       | 15B                 |                    |                    |        |
| 02143         |        | XA225     | 32                              |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | TQ2    |                  |       | 20B                 |                    |                    |        |
| 12959         |        | XA225     | 33                              |      | XA243  | 06        |     |      |             | 168  | 9     |       | TF006A        | 01     | TF006A | 00       | 1    | TQ2    | C3               |       | 16B                 | TD16 TO TE00 GAT   |                    |        |
| 05351         |        | XA225     | 34                              |      | XA227  | 37        |     |      |             | 168  | 9     |       | SPI017        | 20     | KOR230 | 01       | 1    | TQ2    | C2               |       | 16A                 |                    |                    |        |
| 14020         |        | XA225     | 35                              |      | XA225  | 48        |     |      |             | 168  | 9     |       | TLUGAO        | 02     | TF016A | 01       | 1    | TQ2    | C4               |       | 17B                 |                    |                    |        |
| 17064         |        | XA225     | 36                              |      | XA319  | 80        |     |      |             | 168  | 9     |       | TOFS2A        | 03     | KOR230 | 01       | 2    | TQ2    | C2               |       | 17A                 |                    |                    |        |
| 11908         |        | XA225     | 37                              |      | XA226  | 42        |     |      |             | 168  | 9     |       | TD17C0        | 07     | TF016A | 01       | 2    | TQ2    | C4               |       | 18B                 |                    |                    |        |
| 09814         |        | XA225     | 38                              |      | XA247  | 22        |     |      |             | 168  | 9     |       | TCPCAA        | 05     | TCPCAA | 00       | 1    | TQ2    | C1               |       | 18A                 |                    |                    |        |
| 12975         |        | XA225     | 39                              |      | XA243  | 22        |     |      |             | 168  | 9     |       | TF016A        | 01     | TF016A | 00       | 1    | TQ2    | C4               |       | 19B                 | TD17 TO TE01 GAT   |                    |        |
| 09826         |        | XA225     | 40                              |      |        |           |     |      |             |      |       |       | TCPDA0        | 11     | TCPCAA | 01       | 1    | TQ2    | C1               |       | 19A                 |                    |                    |        |
| 11930         |        | XA225     | 41                              |      | XA223  | 47        |     |      |             | 168  | 9     |       | TD18BP        | 04     | T1918A | 01       | 1    | TQ2    | D3               |       | 22B                 |                    |                    |        |
| 16396         |        | XA225     | 42                              |      | XA206  | 75        |     |      |             | 168  | 9     |       | TS24BP        | 06     | TCPCAA | 01       | 2    | TQ2    | C1               |       | 20A                 |                    | C06                |        |
| 11964         |        | XA225     | 43                              |      | XA223  | 45        |     |      |             | 168  | 9     |       | TD19BP        | 02     | T1918A | 01       | 2    | TQ2    | D3               |       | 23B                 |                    |                    |        |
| 02144         |        | XA225     | 44                              |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | TQ2    |                  |       | 21B                 |                    |                    |        |
| 17201         |        | XA225     | 45                              |      |        |           |     |      |             |      |       |       | T1918A        | 03     | T1918A | 00       | 1    | TQ2    | D3               |       | 24B                 | PARITY 18*.19*     |                    |        |
| 13007         |        | XA225     | 46                              |      | XA243  | 50        |     |      |             | 168  | 9     |       | TF036A        | 01     | TF036A | 00       | 1    | TQ2    | D2               |       | 21A                 | TD19 TO TE03 GAT   |                    |        |
| 11970         |        | XA225     | 47                              |      | XA225  | 50        |     |      |             | 168  | 9     |       | TD19BQ        | 05     | T1819A | 01       | 1    | TQ2    | D4               |       | 25B                 |                    |                    |        |
| 14021         |        | XA225     | 48                              |      | XA225  | 54        |     |      |             | 168  | 9     |       | TLUGAO        | 03     | TF036A | 01       | 1    | TQ2    | D2               |       | 22A                 |                    |                    |        |
| 11942         |        | XA225     | 49                              |      | XA226  | 43        |     |      |             | 168  | 9     |       | TD18C0        | 04     | T1819A | 01       | 2    | TQ2    | D4               |       | 26B                 |                    |                    |        |
| 11971         |        | XA225     | 50                              |      | XA126  | 37        |     |      |             | 168  | 9     |       | TD19BQ        | 06     | TF036A | 01       | 2    | TQ2    | D2               |       | 23A                 |                    |                    |        |
| 17195         |        | XA225     | 51                              |      |        |           |     |      |             |      |       |       | T1819A        | 03     | T1819A | 00       | 1    | TQ2    | D4               |       | 27B                 | PARITY 18.19       |                    |        |
| 12991         |        | XA225     | 52                              |      | XA243  | 34        |     |      |             | 168  | 9     |       | TF026A        | 01     | TF026A | 00       | 1    | TQ2    | D1               |       | 24A                 | TD18 TO TE02 GAT   |                    |        |
| 11995         |        | XA225     | 53                              |      | XA226  | 59        |     |      |             | 168  | 9     |       | TD20BP        | 01     | T2120A | 01       | 1    | TQ2    | E3               |       | 28B                 |                    |                    |        |
| 14022         |        | XA225     | 54                              |      | XA225  | 62        |     |      |             | 168  | 9     |       | TLUGAO        | 04     | TF026A | 01       | 1    | TQ2    | D1               |       | 25A                 |                    |                    |        |
| 12031         |        | XA225     | 55                              |      | XA223  | 57        |     |      |             | 168  | 9     |       | TD21BP        | 02     | T2120A | 01       | 2    | TQ2    | E3               |       | 29B                 |                    |                    |        |
| 11936         |        | XA225     | 56                              |      | XA327  | 21        |     |      |             | 168  | 9     |       | TD18BQ        | 05     | TF026A | 01       | 2    | TQ2    | D1               |       | 26A                 |                    |                    |        |
| 17210         |        | XA225     | 57                              |      | XA110  | 47        |     |      |             | 168  | 9     |       | T2120A        | 01     | T2120A | 00       | 1    | TQ2    | E3               |       | 30B                 | PARITY 20*.21*     |                    |        |
| 02145         |        | XA225     | 58                              |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | TQ2    |                  |       | 27A                 |                    |                    |        |
| 12036         |        | XA225     | 59                              |      | XA223  | 55        |     |      |             | 168  | 9     |       | TD21BQ        | 04     | T2021A | 01       | 1    | TQ2    | E4               |       | 31B                 |                    |                    |        |
| 13040         |        | XA225     | 60                              |      |        |           |     |      |             |      |       |       | TF056A        | 02     | TF056A | 00       | 1    | TQ2    | E2               |       | 28A                 | TD21 TO TE05 GAT   |                    |        |
| 12001         |        | XA225     | 61                              |      | XA223  | 61        |     |      |             | 168  | 9     |       | TD20BQ        | 04     | T2021A | 01       | 2    | TQ2    | E4               |       | 32B                 |                    |                    |        |
| 14023         |        | XA225     | 62                              |      | XA225  | 68        |     |      |             | 168  | 9     |       | TLUGAO        | 05     | TF056A | 01       | 1    | TQ2    | E2               |       | 29A                 |                    |                    |        |
| CONNECTOR     |        | XA225     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |               |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA225  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 131

| RECORD NUMBER | FROM   |                            |     | TO   |        |           | WIRE |      |             |      | SPEC. MISC. | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|----------------------------|-----|------|--------|-----------|------|------|-------------|------|-------------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR                  | PIN | PIN  | PREFIX | CONNECTOR | PIN  | INFO | MULTI GROUP | CODE |             |        |        |          |        |        |                  |       |                     |                    |                    |        |
| 17204         |        | XA225                      | 63  |      |        |           |      |      |             |      |             |        | T2021A | 03       | T2021A | 00     | 1                | TQ2   | E4                  | 33B                | PARITY 20.21       |        |
| 12034         |        | XA225                      | 64  |      | XA224  | 64        |      |      |             | 16B  | 9           |        | TD21BQ | 02       | TF056A | 01     | 2                | TQ2   | E2                  | 30A                |                    |        |
| 12066         |        | XA225                      | 65  |      | XA223  | 76        |      |      |             | 16B  | 9           |        | TD22BP | 01       | T2322A | 01     | 1                | TQ2   | F3                  | 34B                |                    |        |
| 13024         |        | XA225                      | 66  |      |        |           |      |      |             |      |             |        | TF046A | 02       | TF046A | 00     | 1                | TQ2   | E1                  | 31A                | TD20 TO TE04 GAT   |        |
| 02146         |        | XA225                      | 67  |      |        |           |      |      |             |      |             |        | GND    | 01       |        |        |                  | TQ2   |                     | 40A                |                    |        |
| 14024         |        | XA225                      | 68  |      | XA225  | 71        |      |      |             | 16B  | 9           |        | TLUGAO | 06       | TF046A | 01     | 1                | TQ2   | E1                  | 32A                |                    |        |
| 17228         |        | XA225                      | 69  |      | XA110  | 48        |      |      |             | 16B  | 9           |        | T2322A | 01       | T2322A | 00     | 1                | TQ2   | F3                  | 35A                | PARITY 2*.23*      |        |
| 11999         |        | XA225                      | 70  |      | XA224  | 70        |      |      |             | 16B  | 9           |        | TD20BQ | 02       | TF046A | 01     | 2                | TQ2   | E1                  | 33A                |                    |        |
| 14025         |        | XA225                      | 71  |      | XA225  | 79        |      |      |             | 16B  | 9           |        | TLUGAO | 07       | TF076A | 01     | 1                | TQ2   | F2                  | 36A                |                    |        |
| 13072         |        | XA225                      | 72  |      |        |           |      |      |             |      |             |        | TF076A | 02       | TF076A | 00     | 1                | TQ2   | F2                  | 34A                | TD23 TO TE07 GAT   |        |
| 12107         |        | XA225                      | 73  |      | XA224  | 73        |      |      |             | 16B  | 9           |        | TD23BQ | 03       | TF076A | 01     | 2                | TQ2   | F2                  | 36B                |                    |        |
| 12103         |        | XA225                      | 74  |      | XA223  | 69        |      |      |             | 16B  | 9           |        | TD23BP | 02       | T2322A | 01     | 2                | TQ2   | F3                  | 35B                |                    |        |
| 13056         |        | XA225                      | 75  |      |        |           |      |      |             |      |             |        | TF066A | 02       | TF066A | 00     | 1                | TQ2   | F1                  | 37B                | TD22 TO TE06 GAT   |        |
| 12106         |        | XA225                      | 76  |      | XA225  | 73        |      |      |             | 16B  | 9           |        | TD23BQ | 02       | T2223A | 01     | 1                | TQ2   | F4                  | 37A                |                    |        |
| 12071         |        | XA225                      | 77  |      | XA224  | 77        |      |      |             | 16B  | 9           |        | TD22BQ | 03       | TF066A | 01     | 1                | TQ2   | F1                  | 38B                |                    |        |
| 12070         |        | XA225                      | 78  |      | XA225  | 77        |      |      |             | 16B  | 9           |        | TD22BQ | 02       | T2223A | 01     | 2                | TQ2   | F4                  | 38A                |                    |        |
| 14026         |        | XA225                      | 79  |      | XA224  | 80        |      |      |             | 16B  | 9           |        | TLUGAO | 08       | TF066A | 01     | 2                | TQ2   | F1                  | 39B                |                    |        |
| 17217         |        | XA225                      | 80  |      | XA110  | 46        |      |      |             | 16B  | 9           |        | T2223A | 01       | T2223A | 00     | 1                | TQ2   | F4                  | 39A                | PARITY 22.23       |        |
| 11346         |        | XA226                      | 01  |      |        |           |      |      |             |      |             |        | TD01C0 | 03       | TD01C0 | 00     | 1                | THI   | A4                  | 02B                | TD BIT 1 UNLOAD    |        |
| 02147         |        | XA226                      | 02  |      |        |           |      |      |             |      |             |        | GND    | 01       |        |        |                  | THI   |                     | 01A                |                    |        |
| 11303         |        | XA226                      | 03  |      |        |           |      |      |             |      |             |        | TD00C0 | 03       | TD00C0 | 00     | 1                | THI   | A3                  | 03A                | TD BIT 0 OVERLOA   |        |
| 11292         |        | XA226                      | 04  |      |        |           |      |      |             |      |             |        | TD00BP | 03       | TD00C0 | 01     | 1                | THI   | A3                  | 02A                |                    |        |
| 11335         |        | XA226                      | 05  |      |        |           |      |      |             |      |             |        | TD01BP | 03       | TD01C0 | 01     | 1                | THI   | A4                  | 03B                |                    |        |
| 11155         |        | XA226                      | 06  |      |        |           |      |      |             |      |             |        | TDS010 | 02       | TDS01A | 01     | 1                | THI   | A2                  | 05A                |                    |        |
| 11733         |        | XA226                      | 07  |      | XA211  | 04        |      |      |             | 16B  | 9           |        | TD12C0 | 01       | TD12C0 | 00     | 1                | THI   | A5                  | 04B                | TD BIT 12 UNLOAD   |        |
| 11152         |        | XA226                      | 08  |      | XA229  | 03        |      |      |             | 16B  | 9           |        | TDS01A | 01       | TDS01A | 00     | 1                | THI   | A2                  | 04A                | PRESET TD BIT 01   |        |
| 11722         |        | XA226                      | 09  |      | XA230  | 10        |      |      |             | 16B  | 9           |        | TD12BP | 03       | TD12C0 | 01     | 1                | THI   | A5                  | 05B                |                    |        |
| 11766         |        | XA226                      | 10  |      | XA211  | 07        |      |      |             | 16B  | 9           |        | TD13C0 | 01       | TD13C0 | 00     | 1                | THI   | A6                  | 06B                | TD BIT 13 UNLOAD   |        |
| 11151         |        | XA226                      | 11  |      |        |           |      |      |             |      |             |        | TDS000 | 02       | TDS00A | 01     | 1                | THI   | A1                  | 07A                |                    |        |
| 00418         |        | XA226                      | 12  |      |        |           |      |      |             |      |             |        | +5V    | 01       |        |        |                  | THI   |                     |                    |                    |        |
| 11148         |        | XA226                      | 13  |      | XA229  | 15        |      |      |             | 16B  | 9           |        | TDS00A | 01       | TDS00A | 00     | 1                | THI   | A1                  | 06A                | PRESET INPUT TD    |        |
| 11432         |        | XA226                      | 14  |      |        |           |      |      |             |      |             |        | TD03C0 | 03       | TD03C0 | 00     | 1                | THI   | B4                  | 08B                | TD BIT 3 UNLOAD    |        |
| 11755         |        | XA226                      | 15  |      | XA224  | 10        |      |      |             | 16B  | 9           |        | TD13BP | 01       | TD13C0 | 01     | 1                | THI   | A6                  | 07B                |                    |        |
| 02148         |        | XA226                      | 16  |      |        |           |      |      |             |      |             |        | GND    | 01       |        |        |                  | THI   |                     | 20B                |                    |        |
| 11421         |        | XA226                      | 17  |      |        |           |      |      |             |      |             |        | TD03BP | 03       | TD03C0 | 01     | 1                | THI   | B4                  | 09B                |                    |        |
| 11386         |        | XA226                      | 18  |      |        |           |      |      |             |      |             |        | TD02C0 | 03       | TD02C0 | 00     | 1                | THI   | B3                  | 09A                | TD BIT 2 UNLOAD    |        |
| 11800         |        | XA226                      | 19  |      | XA224  | 26        |      |      |             | 16B  | 9           |        | TD14C0 | 01       | TD14C0 | 00     | 1                | THI   | B5                  | 10B                | TD REGISTER BIT    |        |
| 11375         |        | XA226                      | 20  |      |        |           |      |      |             |      |             |        | TD02BP | 03       | TD02C0 | 01     | 1                | THI   | B3                  | 10A                |                    |        |
| 11788         |        | XA226                      | 21  |      | XA224  | 20        |      |      |             | 16B  | 9           |        | TD14BP | 01       | TD14C0 | 01     | 1                | THI   | B5                  | 11B                |                    |        |
| 11159         |        | XA226                      | 22  |      |        |           |      |      |             |      |             |        | TDS020 | 02       | TDS02A | 01     | 1                | THI   | B1                  | 14A                |                    |        |
| 11163         |        | XA226                      | 23  |      |        |           |      |      |             |      |             |        | TDS030 | 02       | TDS03A | 01     | 1                | THI   | B2                  | 12A                |                    |        |
| 11156         |        | XA226                      | 24  |      | XA229  | 27        |      |      |             | 16B  | 9           |        | TDS02A | 01       | TDS02A | 00     | 1                | THI   | B1                  | 13A                | PRESET TD BIT 02   |        |
| 11160         |        | XA226                      | 25  |      | XA229  | 17        |      |      |             | 16B  | 9           |        | TDS03A | 01       | TDS03A | 00     | 1                | THI   | B2                  | 11A                | PRESET TD BIT 03   |        |
| 11832         |        | XA226                      | 26  |      | XA224  | 24        |      |      |             | 16B  | 9           |        | TD15C0 | 01       | TD15C0 | 00     | 1                | THI   | B6                  | 12B                | TD REGISTER BIT    |        |
| 11821         |        | XA226                      | 27  |      | XA224  | 18        |      |      |             | 16B  | 9           |        | TD15BP | 01       | TD15C0 | 01     | 1                | THI   | B6                  | 13B                |                    |        |
| 00419         |        | XA226                      | 28  |      |        |           |      |      |             |      |             |        | +5V    | 01       |        |        |                  | THI   |                     |                    |                    |        |
| 11493         |        | XA226                      | 29  |      |        |           |      |      |             |      |             |        | TD05BP | 03       | TD05C0 | 01     | 1                | THI   | C4                  | 15B                |                    |        |
| 11504         |        | XA226                      | 30  |      |        |           |      |      |             |      |             |        | TD05C0 | 03       | TD05C0 | 00     | 1                | THI   | C4                  | 14B                | TD BIT 5 UNLOAD    |        |
| CONNECTOR     | XA226  | CONTINUED ON THE NEXT PAGE |     | **** |        |           |      |      |             |      |             |        |        |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA226  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 132

| RECORD NUMBER | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SPL INST MISC | SIGNAL | SEC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | BMFG | PREFIX | CONNECTOR | PIN | BMFG | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 11870         |        | XA226     | 31  |      |        |           |     |      |             |      |       |       | TD16C0        | 05     | TD16C0 | 00       | 1    | THI    | C5               |       | 16B                 | TD REGISTER BIT    |                    |        |
| 02149         |        | XA226     | 32  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | THI    |                  |       | 21B                 |                    |                    |        |
| 11854         |        | XA226     | 33  |      | XA224  | 40        |     |      |             | 16B  | 9     |       | TD16BP        | 01     | TD16C0 | 01       | 1    | THI    | C5               |       | 17B                 |                    |                    |        |
| 11468         |        | XA226     | 34  |      |        |           |     |      |             |      |       |       | TD04C0        | 03     | TD04C0 | 00       | 1    | THI    | C3               |       | 15A                 | TD BIT 4 UNLOAD    |                    |        |
| 11171         |        | XA226     | 35  |      |        |           |     |      |             |      |       |       | TDS050        | 02     | TDS05A | 01       | 1    | THI    | C2               |       | 18A                 |                    |                    |        |
| 11457         |        | XA226     | 36  |      |        |           |     |      |             |      |       |       | TD04BP        | 03     | TD04C0 | 01       | 1    | THI    | C3               |       | 16A                 |                    |                    |        |
| 11168         |        | XA226     | 37  |      | XA229  | 29        |     |      |             | 16B  | 9     |       | TDS05A        | 01     | TDS05A | 00       | 1    | THI    | C2               |       | 17A                 | PRESET TD BIT 05   |                    |        |
| 11167         |        | XA226     | 38  |      |        |           |     |      |             |      |       |       | TDS040        | 02     | TDS04A | 01       | 1    | THI    | C1               |       | 20A                 |                    |                    |        |
| 11891         |        | XA226     | 39  |      | XA224  | 42        |     |      |             | 16B  | 9     |       | TD17BP        | 04     | TD17C0 | 01       | 1    | THI    | C6               |       | 19B                 |                    |                    |        |
| 11164         |        | XA226     | 40  |      | XA229  | 39        |     |      |             | 16B  | 9     |       | TDS04A        | 01     | TDS04A | 00       | 1    | THI    | C1               |       | 19A                 | PRESET TD BIT 04   |                    |        |
| 11565         |        | XA226     | 41  |      |        |           |     |      |             |      |       |       | TD07BP        | 03     | TD07C0 | 01       | 1    | THI    | D4               |       | 23B                 |                    |                    |        |
| 11909         |        | XA226     | 42  |      |        |           |     |      |             |      |       |       | TD17C0        | 08     | TD17C0 | 00       | 1    | THI    | C6               |       | 18B                 | TD REGISTER BIT    |                    |        |
| 11943         |        | XA226     | 43  |      | XA211  | 48        |     |      |             | 16B  | 9     |       | TD18C0        | 05     | TD18C0 | 00       | 1    | THI    | D5               |       | 24B                 | TD REGISTER BIT    |                    |        |
| 02150         |        | XA226     | 44  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | THI    |                  |       | 27A                 |                    |                    |        |
| 11929         |        | XA226     | 45  |      | XA225  | 41        |     |      |             | 16B  | 9     |       | TD18BP        | 03     | TD18C0 | 01       | 1    | THI    | D5               |       | 25B                 |                    |                    |        |
| 11576         |        | XA226     | 46  |      |        |           |     |      |             |      |       |       | TD07C0        | 03     | TD07C0 | 00       | 1    | THI    | D4               |       | 22B                 | TD BIT 7 UNLOAD    |                    |        |
| 11179         |        | XA226     | 47  |      |        |           |     |      |             |      |       |       | TDS070        | 02     | TDS07A | 01       | 1    | THI    | D2               |       | 24A                 |                    |                    |        |
| 11540         |        | XA226     | 48  |      |        |           |     |      |             |      |       |       | TD06C0        | 03     | TD06C0 | 00       | 1    | THI    | D3               |       | 21A                 | TD BIT 6 UNLOAD    |                    |        |
| 11176         |        | XA226     | 49  |      | XA229  | 41        |     |      |             | 16B  | 9     |       | TDS07A        | 01     | TDS07A | 00       | 1    | THI    | D2               |       | 23A                 | PRESET TD BIT 07   |                    |        |
| 11529         |        | XA226     | 50  |      |        |           |     |      |             |      |       |       | TD06BP        | 03     | TD06C0 | 01       | 1    | THI    | D3               |       | 22A                 |                    |                    |        |
| 11963         |        | XA226     | 51  |      | XA225  | 43        |     |      |             | 16B  | 9     |       | TD19BP        | 01     | TD19C0 | 01       | 1    | THI    | D6               |       | 27B                 |                    |                    |        |
| 11175         |        | XA226     | 52  |      |        |           |     |      |             |      |       |       | TDS060        | 02     | TDS06A | 01       | 1    | THI    | D1               |       | 26A                 |                    |                    |        |
| 11977         |        | XA226     | 53  |      |        |           |     |      |             |      |       |       | TD19C0        | 04     | TD19C0 | 00       | 1    | THI    | D6               |       | 26B                 | TD REGISTER BIT    |                    |        |
| 11172         |        | XA226     | 54  |      | XA229  | 51        |     |      |             | 16B  | 9     |       | TDS06A        | 01     | TDS06A | 00       | 1    | THI    | D1               |       | 25A                 | PRESET TD BIT 06   |                    |        |
| 11627         |        | XA226     | 55  |      |        |           |     |      |             |      |       |       | TD09BP        | 03     | TD09C0 | 01       | 1    | THI    | E4               |       | 29B                 |                    |                    |        |
| 11638         |        | XA226     | 56  |      |        |           |     |      |             |      |       |       | TD09C0        | 03     | TD09C0 | 00       | 1    | THI    | E4               |       | 28B                 | TD BIT 9 UNLOAD    |                    |        |
| 12006         |        | XA226     | 57  |      | XA211  | 62        |     |      |             | 16B  | 9     |       | TD20C0        | 01     | TD20C0 | 00       | 1    | THI    | E5               |       | 30B                 | TD REGISTER BIT    |                    |        |
| 02151         |        | XA226     | 58  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | THI    |                  |       | 40A                 |                    |                    |        |
| 11996         |        | XA226     | 59  |      | XA223  | 59        |     |      |             | 16B  | 9     |       | TD20BP        | 02     | TD20C0 | 01       | 1    | THI    | E5               |       | 31B                 |                    |                    |        |
| 11607         |        | XA226     | 60  |      |        |           |     |      |             |      |       |       | TD08C0        | 03     | TD08C0 | 00       | 1    | THI    | E3               |       | 28A                 | TD BIT 8 UNLOAD    |                    |        |
| 11187         |        | XA226     | 61  |      |        |           |     |      |             |      |       |       | TDS090        | 02     | TDS09A | 01       | 1    | THI    | E2               |       | 31A                 |                    |                    |        |
| 11596         |        | XA226     | 62  |      | XA332  | 65        |     |      |             | 16B  | 9     |       | TD08BP        | 03     | TD08C0 | 01       | 1    | THI    | E3               |       | 29A                 |                    |                    |        |
| 11184         |        | XA226     | 63  |      | XA229  | 53        |     |      |             | 16B  | 9     |       | TDS09A        | 01     | TDS09A | 00       | 1    | THI    | E2               |       | 30A                 | PRESET TD BIT 08   |                    |        |
| 11183         |        | XA226     | 64  |      |        |           |     |      |             |      |       |       | TDS080        | 02     | TDS08A | 01       | 1    | THI    | E1               |       | 33A                 |                    |                    |        |
| 12030         |        | XA226     | 65  |      | XA225  | 55        |     |      |             | 16B  | 9     |       | TD21BP        | 01     | TD21C0 | 01       | 1    | THI    | E6               |       | 33B                 |                    |                    |        |
| 11180         |        | XA226     | 66  |      | XA229  | 63        |     |      |             | 16B  | 9     |       | TDS08A        | 01     | TDS08A | 00       | 1    | THI    | E1               |       | 32A                 | PRESET TD BIT 08   |                    |        |
| 02152         |        | XA226     | 67  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | THI    |                  |       |                     |                    |                    |        |
| 12041         |        | XA226     | 68  |      | XA211  | 59        |     |      |             | 16B  | 9     |       | TD21C0        | 01     | TD21C0 | 00       | 1    | THI    | E6               |       | 32B                 | TD REGISTER BIT    |                    |        |
| 11656         |        | XA226     | 69  |      | XA229  | 76        |     |      |             | 16B  | 9     |       | TD10BP        | 01     | TD10C0 | 01       | 1    | THI    | F3               |       | 35B                 |                    |                    |        |
| 11669         |        | XA226     | 70  |      |        |           |     |      |             |      |       |       | TD10C0        | 03     | TD10C0 | 00       | 1    | THI    | F3               |       | 34B                 | TD BIT 10 UNLOAD   |                    |        |
| 11192         |        | XA226     | 71  |      | XA229  | 65        |     |      |             | 16B  | 9     |       | TDS11A        | 01     | TDS11A | 00       | 1    | THI    | F2               |       | 36B                 | PRESET TD BIT 11   |                    |        |
| 11702         |        | XA226     | 72  |      |        |           |     |      |             |      |       |       | TD11C0        | 03     | TD11C0 | 00       | 1    | THI    | F4               |       | 34A                 | TD BIT 11 UNLOAD   |                    |        |
| 11195         |        | XA226     | 73  |      |        |           |     |      |             |      |       |       | TDS110        | 02     | TDS11A | 01       | 1    | THI    | F2               |       | 37B                 |                    |                    |        |
| 11689         |        | XA226     | 74  |      | XA229  | 69        |     |      |             | 16B  | 9     |       | TD11BP        | 01     | TD11C0 | 01       | 1    | THI    | F4               |       | 35A                 |                    |                    |        |
| 12102         |        | XA226     | 75  |      | XA225  | 74        |     |      |             | 16B  | 9     |       | TD23BP        | 01     | TD23C0 | 01       | 1    | THI    | F6               |       | 39A                 |                    |                    |        |
| 12068         |        | XA226     | 76  |      |        |           |     |      |             |      |       |       | TD22BP        | 03     | TD22C0 | 01       | 1    | THI    | F5               |       | 37A                 |                    |                    |        |
| 12113         |        | XA226     | 77  |      | XA211  | 76        |     |      |             | 16B  | 9     |       | TD23C0        | 01     | TD23C0 | 00       | 1    | THI    | F6               |       | 38A                 | TD BIT 23 UNLOAD   |                    |        |
| 12077         |        | XA226     | 78  |      | XA211  | 71        |     |      |             | 16B  | 9     |       | TD22C0        | 01     | TD22C0 | 00       | 1    | THI    | F5               |       | 36A                 | TD REGISTER BIT    |                    |        |
| 11191         |        | XA226     | 79  |      |        |           |     |      |             |      |       |       | TDS100        | 02     | TDS10A | 01       | 1    | THI    | F1               |       | 39B                 |                    |                    |        |
| 11188         |        | XA226     | 80  |      | XA229  | 80        |     |      |             | 16B  | 9     |       | TDS10A        | 01     | TDS10A | 00       | 1    | THI    | F1               |       | 38B                 | PRESET TD BIT 10   |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA227  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 133

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |               |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 11359   |        | XA227     | 01  |        |           |     |      |             |      |       |               | TD013A | 02     | TD0100   | 01   | 1      | TS8              | A1    |                     | 02B                |                    |        |
| 02153   |        | XA227     | 02  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TS8              |       |                     | 01A                |                    |        |
| 00956   |        | XA227     | 03  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11356   |        | XA227     | 04  |        | XA326     | 21  |      |             | 16B  | 9     |               | TD012A | 01     | TD0100   | 01   | 2      | TS8              | A1    |                     | 04A                |                    |        |
| 05345   |        | XA227     | 05  |        | XA228     | 10  |      |             | 16B  | 9     |               | SPI017 | 14     | TD0100   | 01   | 3      | TS8              | A1    |                     | 03B                |                    |        |
| 05384   |        | XA227     | 06  |        | XA228     | 07  |      |             | 16B  | 9     |               | SPI018 | 20     | TD0100   | 01   | 4      | TS8              | A1    |                     | 05A                |                    |        |
| 11363   |        | XA227     | 07  |        |           |     |      |             |      |       |               | TD015A | 02     | TD0100   | 01   | 5      | TS8              | A1    |                     | 03A                |                    |        |
| 11367   |        | XA227     | 08  |        |           |     |      |             |      |       |               | TD016A | 02     | TD0100   | 01   | 6      | TS8              | A1    |                     | 06A                |                    |        |
| 00957   |        | XA227     | 09  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11361   |        | XA227     | 10  |        |           |     |      |             |      |       |               | TD014A | 02     | TD0100   | 01   | 7      | TS8              | A1    |                     | 07A                |                    |        |
| 11352   |        | XA227     | 11  |        | XA229     | 05  |      |             | 16B  | 9     |               | TD0100 | 01     | TD0100   | 00   | 1      | TS8              | A1    |                     | 05B                | TD REG BIT 01 OR   |        |
| 00420   |        | XA227     | 12  |        |           |     |      |             |      |       |               | +5V    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11355   |        | XA227     | 13  |        |           |     |      |             |      |       |               | TD011A | 02     | TD0100   | 01   | 8      | TS8              | A1    |                     | 06B                |                    |        |
| 11442   |        | XA227     | 14  |        | XA326     | 38  |      |             | 16B  | 9     |               | TD032A | 01     | TD0300   | 01   | 1      | TS8              | B1    |                     | 09A                |                    |        |
| 00958   |        | XA227     | 15  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 02154   |        | XA227     | 16  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TS8              |       |                     | 21B                |                    |        |
| 00959   |        | XA227     | 17  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11441   |        | XA227     | 18  |        |           |     |      |             |      |       |               | TD031A | 02     | TD0300   | 01   | 2      | TS8              | B1    |                     | 10A                |                    |        |
| 11445   |        | XA227     | 19  |        |           |     |      |             |      |       |               | TD033A | 02     | TD0300   | 01   | 3      | TS8              | B1    |                     | 09B                |                    |        |
| 05348   |        | XA227     | 20  |        | XA225     | 17  |      |             | 16B  | 9     |               | SPI017 | 17     | TD0300   | 01   | 4      | TS8              | B1    |                     | 11A                |                    |        |
| 00960   |        | XA227     | 21  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11449   |        | XA227     | 22  |        |           |     |      |             |      |       |               | TD036A | 02     | TD0300   | 01   | 5      | TS8              | B1    |                     | 12A                |                    |        |
| 11438   |        | XA227     | 23  |        | XA229     | 18  |      |             | 16B  | 9     |               | TD0300 | 01     | TD0300   | 00   | 1      | TS8              | B1    |                     | 11B                | TD REG BIT 03 OR   |        |
| 11447   |        | XA227     | 24  |        |           |     |      |             |      |       |               | TD034A | 02     | TD0300   | 01   | 6      | TS8              | B1    |                     | 13A                |                    |        |
| 05318   |        | XA227     | 25  |        | XA238     | 04  |      |             | 16B  | 9     |               | SPI016 | 14     | TD0300   | 01   | 7      | TS8              | B1    |                     | 12B                |                    |        |
| 05387   |        | XA227     | 26  |        | XA227     | 40  |      |             | 16B  | 9     |               | SPI018 | 23     | TD0300   | 01   | 8      | TS8              | B1    |                     | 14A                |                    |        |
| 00961   |        | XA227     | 27  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 00421   |        | XA227     | 28  |        |           |     |      |             |      |       |               | +5V    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 00962   |        | XA227     | 29  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11514   |        | XA227     | 30  |        | XA327     | 20  |      |             | 16B  | 9     |               | TD052A | 01     | TD0500   | 01   | 1      | TS8              | C1    |                     | 15A                |                    |        |
| 11521   |        | XA227     | 31  |        |           |     |      |             |      |       |               | TD056A | 02     | TD0500   | 01   | 2      | TS8              | C1    |                     | 15B                |                    |        |
| 02155   |        | XA227     | 32  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TS8              |       |                     | 27A                |                    |        |
| 00963   |        | XA227     | 33  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11517   |        | XA227     | 34  |        |           |     |      |             |      |       |               | TD053A | 02     | TD0500   | 01   | 3      | TS8              | C1    |                     | 16A                |                    |        |
| 11510   |        | XA227     | 35  |        | XA229     | 34  |      |             | 16B  | 9     |               | TD0500 | 01     | TD0500   | 00   | 1      | TS8              | C1    |                     | 17B                | TD REG BIT 05 OR   |        |
| 05317   |        | XA227     | 36  |        | XA227     | 25  |      |             | 16B  | 9     |               | SPI016 | 13     | TD0500   | 01   | 4      | TS8              | C1    |                     | 17A                |                    |        |
| 05352   |        | XA227     | 37  |        | XA228     | 36  |      |             | 16B  | 9     |               | SPI017 | 21     | TD0500   | 01   | 5      | TS8              | C1    |                     | 18B                |                    |        |
| 11519   |        | XA227     | 38  |        |           |     |      |             |      |       |               | TD054A | 02     | TD0500   | 01   | 6      | TS8              | C1    |                     | 18A                |                    |        |
| 00964   |        | XA227     | 39  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 05388   |        | XA227     | 40  |        | XA228     | 34  |      |             | 16B  | 9     |               | SPI018 | 24     | TD0500   | 01   | 7      | TS8              | C1    |                     | 19A                |                    |        |
| 00965   |        | XA227     | 41  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11513   |        | XA227     | 42  |        |           |     |      |             |      |       |               | TD051A | 02     | TD0500   | 01   | 8      | TS8              | C1    |                     | 20A                |                    |        |
| 11589   |        | XA227     | 43  |        |           |     |      |             |      |       |               | TD073A | 02     | TD0700   | 01   | 1      | TS8              | D1    |                     | 23B                |                    |        |
| 02156   |        | XA227     | 44  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TS8              |       |                     | 40A                |                    |        |
| 00966   |        | XA227     | 45  |        |           |     |      |             |      |       |               | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11593   |        | XA227     | 46  |        |           |     |      |             |      |       |               | TD076A | 02     | TD0700   | 01   | 2      | TS8              | D1    |                     | 21A                |                    |        |
| 11582   |        | XA227     | 47  |        | XA229     | 48  |      |             | 16B  | 9     |               | TD0700 | 01     | TD0700   | 00   | 1      | TS8              | D1    |                     | 25B                | TD REG BIT 07 OR   |        |
| 05315   |        | XA227     | 48  |        | XA228     | 37  |      |             | 16B  | 9     |               | SPI016 | 11     | TD0700   | 01   | 3      | TS8              | D1    |                     | 22A                |                    |        |
| 05394   |        | XA227     | 49  |        | XA222     | 48  |      |             | 16B  | 9     |               | SPI018 | 30     | TD0700   | 01   | 4      | TS8              | D1    |                     | 26B                |                    |        |
| 05355   |        | XA227     | 50  |        | XA227     | 62  |      |             | 16B  | 9     |               | SPI017 | 24     | TD0700   | 01   | 5      | TS8              | D1    |                     | 23A                |                    |        |
| CONNECTOR (XA227) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |               |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA227  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 134

| RECORD NUMBER | FROM   |           |                                | TO     |           |     | WIRE   |             |      | SFC INST MISC | SIGNAL | SFC NO | EQUATION | TERM | FACTORY | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|--------------------------------|--------|-----------|-----|--------|-------------|------|---------------|--------|--------|----------|------|---------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                            | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE |               |        |        |          |      |         |                  |       |                     |                    |                    |        |
| 00967         |        | XA227     | 51                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11591         |        | XA227     | 52                             |        |           |     |        |             |      |               | TD074A | 02     | TD0700   | 01   | 6       | TS8              | D1    |                     | 24A                |                    |        |
| 00968         |        | XA227     | 53                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11585         |        | XA227     | 54                             |        |           |     |        |             |      |               | TD071A | 02     | TD0700   | 01   | 7       | TS8              | D1    |                     | 25A                |                    |        |
| 11649         |        | XA227     | 55                             |        |           |     |        |             |      |               | TD092A | 02     | TD0900   | 01   | 1       | TS8              | E1    |                     | 29B                |                    |        |
| 11586         |        | XA227     | 56                             |        | XA328     | 51  |        |             | 16B  | 9             | TD072A | 01     | TD0700   | 01   | 8       | TS8              | D1    |                     | 26A                |                    |        |
| 00969         |        | XA227     | 57                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 02157         |        | XA227     | 58                             |        |           |     |        |             |      |               | GND    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11644         |        | XA227     | 59                             |        | XA229     | 62  |        |             | 16B  | 9             | TD0900 | 01     | TD0900   | 00   | 1       | TS8              | E1    |                     | 31B                | TD REG BIT 09 OR   |        |
| 05392         |        | XA227     | 60                             |        | XA228     | 49  |        |             | 16B  | 9             | SPI018 | 28     | TD0900   | 01   | 2       | TS8              | E1    |                     | 28A                |                    |        |
| 05312         |        | XA227     | 61                             |        | XA228     | 60  |        |             | 16B  | 9             | SPI016 | 08     | TD0900   | 01   | 3       | TS8              | E1    |                     | 32B                |                    |        |
| 05356         |        | XA227     | 62                             |        | XA228     | 61  |        |             | 16B  | 9             | SPI017 | 25     | TD0900   | 01   | 4       | TS8              | E1    |                     | 29A                |                    |        |
| 00970         |        | XA227     | 63                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11655         |        | XA227     | 64                             |        |           |     |        |             |      |               | TD096A | 02     | TD0900   | 01   | 5       | TS8              | E1    |                     | 30A                |                    |        |
| 00971         |        | XA227     | 65                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11651         |        | XA227     | 66                             |        |           |     |        |             |      |               | TD093A | 02     | TD0900   | 01   | 6       | TS8              | E1    |                     | 31A                |                    |        |
| 02158         |        | XA227     | 67                             |        |           |     |        |             |      |               | GND    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11653         |        | XA227     | 68                             |        |           |     |        |             |      |               | TD094A | 02     | TD0900   | 01   | 7       | TS8              | E1    |                     | 32A                |                    |        |
| 00972         |        | XA227     | 69                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11647         |        | XA227     | 70                             |        |           |     |        |             |      |               | TD091A | 02     | TD0900   | 01   | 8       | TS8              | E1    |                     | 33A                |                    |        |
| 10117         |        | XA227     | 71                             |        | XA332     | 36  |        |             | 16B  | 9             | TC05BQ | 03     | TCM12A   | 01   | 1       | TS8              | F1    |                     | 36A                |                    |        |
| 10059         |        | XA227     | 72                             |        |           |     |        |             |      |               | TC00BP | 04     | TCM12A   | 01   | 2       | TS8              | F1    |                     | 34A                |                    |        |
| 10064         |        | XA227     | 73                             |        | XA328     | 04  |        |             | 16B  | 9             | TC01BP | 01     | TCM12A   | 01   | 3       | TS8              | F1    |                     | 36B                |                    |        |
| 10129         |        | XA227     | 74                             |        | XA332     | 41  |        |             | 16B  | 9             | TC06BQ | 01     | TCM12A   | 01   | 4       | TS8              | F1    |                     | 35B                |                    |        |
| 10087         |        | XA227     | 75                             |        |           |     |        |             |      |               | TC03BP | 05     | TCM12A   | 01   | 5       | TS8              | F1    |                     | 37B                |                    |        |
| 09779         |        | XA227     | 76                             |        |           |     |        |             |      |               | TCM12A | 02     | TCM12A   | 00   | 1       | TS8              | F1    |                     | 37A                | BYTE 1 OF WD 1 B   |        |
| 10105         |        | XA227     | 77                             |        | XA329     | 37  |        |             | 16B  | 9             | TC04BQ | 04     | TCM12A   | 01   | 6       | TS8              | F1    |                     | 38B                |                    |        |
| 10150         |        | XA227     | 78                             |        |           |     |        |             |      |               | TC07BQ | 07     | TCM12A   | 01   | 7       | TS8              | F1    |                     | 38A                |                    |        |
| 10082         |        | XA227     | 79                             |        |           |     |        |             |      |               | TC02BQ | 06     | TCM12A   | 01   | 8       | TS8              | F1    |                     | 39B                |                    |        |
| 00973         |        | XA227     | 80                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11313         |        | XA228     | 01                             |        | XA328     | 09  |        |             | 16B  | 9             | TD002A | 01     | TD0000   | 01   | 1       | TS8              | A1    |                     | 02B                |                    |        |
| 02159         |        | XA228     | 02                             |        |           |     |        |             |      |               | GND    | 01     |          |      |         |                  |       |                     | 01A                |                    |        |
| 00974         |        | XA228     | 03                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11327         |        | XA228     | 04                             |        |           |     |        |             |      |               | TD007A | 02     | TD0000   | 01   | 2       | TS8              | A1    |                     | 04A                |                    |        |
| 11316         |        | XA228     | 05                             |        |           |     |        |             |      |               | TD003A | 02     | TD0000   | 01   | 3       | TS8              | A1    |                     | 03B                |                    |        |
| 11325         |        | XA228     | 06                             |        |           |     |        |             |      |               | TD006A | 02     | TD0000   | 01   | 4       | TS8              | A1    |                     | 05A                |                    |        |
| 05385         |        | XA228     | 07                             |        | XA228     | 19  |        |             | 16B  | 9             | SPI018 | 21     | TD0000   | 01   | 5       | TS8              | A1    |                     | 03A                |                    |        |
| 11318         |        | XA228     | 08                             |        |           |     |        |             |      |               | TD004A | 02     | TD0000   | 01   | 6       | TS8              | A1    |                     | 06A                |                    |        |
| 00975         |        | XA228     | 09                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 05346         |        | XA228     | 10                             |        | XA228     | 20  |        |             | 16B  | 9             | SPI017 | 15     | TD0000   | 01   | 7       | TS8              | A1    |                     | 07A                |                    |        |
| 11309         |        | XA228     | 11                             |        | XA229     | 08  |        |             | 16B  | 9             | TD0000 | 01     | TD0000   | 00   | 1       | TS8              | A1    |                     | 05B                | TD REG BIT 00 OR   |        |
| 00422         |        | XA228     | 12                             |        |           |     |        |             |      |               | +5V    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11312         |        | XA228     | 13                             |        |           |     |        |             |      |               | TD001A | 02     | TD0000   | 01   | 8       | TS8              | A1    |                     | 06B                |                    |        |
| 11399         |        | XA228     | 14                             |        |           |     |        |             |      |               | TD023A | 02     | TD0200   | 01   | 1       | TS8              | B1    |                     | 09A                |                    |        |
| 00976         |        | XA228     | 15                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 0216C         |        | XA228     | 16                             |        |           |     |        |             |      |               | GND    | 01     |          |      |         |                  |       |                     | 21B                |                    |        |
| 00977         |        | XA228     | 17                             |        |           |     |        |             |      |               | DNW    | 01     |          |      |         |                  |       |                     |                    |                    |        |
| 11395         |        | XA228     | 18                             |        |           |     |        |             |      |               | TD021A | 02     | TD0200   | 01   | 2       | TS8              | B1    |                     | 10A                |                    |        |
| CONNECTOR     |        | XA228     | CONTINUED ON THE NEXT PAGE *** |        |           |     |        |             |      |               |        |        |          |      |         |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA228  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 135

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHUP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |        |                  |       |                     |                    |                    |                  |
| 05386   |        | XA228     | 19  |        | XA227     | 26  |             |      | 16B   | 9     |        | SPI018 | 22       | TD0200 | 01     | 3                | TS8   | B1                  |                    | 09B                |                  |
| 05347   |        | XA228     | 20  |        | XA227     | 20  |             |      | 16B   | 9     |        | SPI017 | 16       | TD0200 | 01     | 4                | TS8   | B1                  |                    | 11A                |                  |
| 00978   |        | XA228     | 21  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11407   |        | XA228     | 22  |        |           |     |             |      |       |       |        | TD026A | 02       | TD0200 | 01     | 5                | TS8   | B1                  |                    | 12A                |                  |
| 11392   |        | XA228     | 23  |        | XA229     | 24  |             |      | 16B   | 9     |        | TD0200 | 01       | TD0200 | 00     | 1                | TS8   | B1                  |                    | 11B                | TD REG BIT 02 OR |
| 11403   |        | XA228     | 24  |        |           |     |             |      |       |       |        | TD025A | 02       | TD0200 | 01     | 6                | TS8   | B1                  |                    | 13A                |                  |
| 11401   |        | XA228     | 25  |        |           |     |             |      |       |       |        | TD024A | 02       | TD0200 | 01     | 7                | TS8   | B1                  |                    | 12B                |                  |
| 11397   |        | XA228     | 26  |        |           |     |             |      |       |       |        | TD022A | 02       | TD0200 | 01     | 8                | TS8   | B1                  |                    | 14A                |                  |
| 00979   |        | XA228     | 27  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 00423   |        | XA228     | 28  |        |           |     |             |      |       |       |        | +5V    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 00980   |        | XA228     | 29  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11477   |        | XA228     | 30  |        |           |     |             |      |       |       |        | TD041A | 02       | TD0400 | 01     | 1                | TS8   | C1                  |                    | 15A                |                  |
| 11481   |        | XA228     | 31  |        |           |     |             |      |       |       |        | TD043A | 02       | TD0400 | 01     | 2                | TS8   | C1                  |                    | 15B                |                  |
| 02161   |        | XA228     | 32  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TS8   |                     |                    | 27A                |                  |
| 00981   |        | XA228     | 33  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 05389   |        | XA228     | 34  |        | XA228     | 74  |             |      | 16B   | 9     |        | SPI018 | 25       | TD0400 | 01     | 3                | TS8   | C1                  |                    | 16A                |                  |
| 11474   |        | XA228     | 35  |        | XA229     | 40  |             |      | 16B   | 9     |        | TD0400 | 01       | TD0400 | 00     | 1                | TS8   | C1                  |                    | 17B                | TD REG BIT 04 OR |
| 05353   |        | XA228     | 36  |        | XA228     | 50  |             |      | 16B   | 9     |        | SPI017 | 22       | TD0400 | 01     | 4                | TS8   | C1                  |                    | 17A                |                  |
| 05316   |        | XA228     | 37  |        | XA227     | 36  |             |      | 16B   | 9     |        | SPI016 | 12       | TD0400 | 01     | 5                | TS8   | C1                  |                    | 18B                |                  |
| 11485   |        | XA228     | 38  |        |           |     |             |      |       |       |        | TD046A | 02       | TD0400 | 01     | 6                | TS8   | C1                  |                    | 18A                |                  |
| 00982   |        | XA228     | 39  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11483   |        | XA228     | 40  |        |           |     |             |      |       |       |        | TD044A | 02       | TD0400 | 01     | 7                | TS8   | C1                  |                    | 19A                |                  |
| 00983   |        | XA228     | 41  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11478   |        | XA228     | 42  |        | XA326     | 30  |             |      | 16B   | 9     |        | TD042A | 01       | TD0400 | 01     | 8                | TS8   | C1                  |                    | 20A                |                  |
| 11549   |        | XA228     | 43  |        |           |     |             |      |       |       |        | TD061A | 02       | TD0600 | 01     | 1                | TS8   | D1                  |                    | 23B                |                  |
| 02162   |        | XA228     | 44  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TS8   |                     |                    | 40A                |                  |
| 00984   |        | XA228     | 45  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11553   |        | XA228     | 46  |        |           |     |             |      |       |       |        | TD063A | 02       | TD0600 | 01     | 2                | TS8   | D1                  |                    | 21A                |                  |
| 11546   |        | XA228     | 47  |        | XA229     | 54  |             |      | 16B   | 9     |        | TD0600 | 01       | TD0600 | 00     | 1                | TS8   | D1                  |                    | 25B                | TD REG BIT 06 OR |
| 05314   |        | XA228     | 48  |        | XA227     | 48  |             |      | 16B   | 9     |        | SPI016 | 10       | TD0600 | 01     | 3                | TS8   | D1                  |                    | 22A                |                  |
| 05393   |        | XA228     | 49  |        | XA227     | 49  |             |      | 16B   | 9     |        | SPI018 | 29       | TD0600 | 01     | 4                | TS8   | D1                  |                    | 26B                |                  |
| 05354   |        | XA228     | 50  |        | XA227     | 50  |             |      | 16B   | 9     |        | SPI017 | 23       | TD0600 | 01     | 5                | TS8   | D1                  |                    | 23A                |                  |
| 00985   |        | XA228     | 51  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11557   |        | XA228     | 52  |        |           |     |             |      |       |       |        | TD066A | 02       | TD0600 | 01     | 6                | TS8   | D1                  |                    | 24A                |                  |
| 00986   |        | XA228     | 53  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11555   |        | XA228     | 54  |        |           |     |             |      |       |       |        | TD064A | 02       | TD0600 | 01     | 7                | TS8   | D1                  |                    | 25A                |                  |
| 11616   |        | XA228     | 55  |        |           |     |             |      |       |       |        | TD081A | 02       | TD0800 | 01     | 1                | TS8   | E1                  |                    | 29B                |                  |
| 11550   |        | XA228     | 56  |        | XA224     | 63  |             |      | 16B   | 9     |        | TD062A | 01       | TD0600 | 01     | 8                | TS8   | D1                  |                    | 26A                |                  |
| 00987   |        | XA228     | 57  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 02163   |        | XA228     | 58  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11613   |        | XA228     | 59  |        | XA229     | 68  |             |      | 16B   | 9     |        | TD0800 | 01       | TD0800 | 00     | 1                | TS8   | E1                  |                    | 31B                | TD REG BIT 08 OR |
| 05313   |        | XA228     | 60  |        | XA228     | 48  |             |      | 16B   | 9     |        | SPI016 | 09       | TD0800 | 01     | 2                | TS8   | E1                  |                    | 28A                |                  |
| 05357   |        | XA228     | 61  |        | XA228     | 75  |             |      | 16B   | 9     |        | SPI017 | 26       | TD0800 | 01     | 3                | TS8   | E1                  |                    | 32B                |                  |
| 05391   |        | XA228     | 62  |        | XA227     | 60  |             |      | 16B   | 9     |        | SPI018 | 27       | TD0800 | 01     | 4                | TS8   | E1                  |                    | 29A                |                  |
| 00988   |        | XA228     | 63  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11620   |        | XA228     | 64  |        |           |     |             |      |       |       |        | TD083A | 02       | TD0800 | 01     | 5                | TS8   | E1                  |                    | 30A                |                  |
| 00989   |        | XA228     | 65  |        |           |     |             |      |       |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11624   |        | XA228     | 66  |        |           |     |             |      |       |       |        | TD086A | 02       | TD0800 | 01     | 6                | TS8   | E1                  |                    | 31A                |                  |
| 02164   |        | XA228     | 67  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 11622   |        | XA228     | 68  |        |           |     |             |      |       |       |        | TD084A | 02       | TD0800 | 01     | 7                | TS8   | E1                  |                    | 32A                |                  |
| CONNECTOR XA228 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |        |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA228  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 136

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE   |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|--------|-------------|------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE | COLOR |        |        |          |        |        |                  |       |                     |                    |                    |                  |
| 00990   |        | XA228     | 69  |        |           |     |        |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 11618   |        | XA228     | 70  |        |           |     |        |             |      |       |        | TD082A | 02       | TD0800 | 01     | 8                | TS8   | E1                  |                    | 33A                |                  |
| 11678   |        | XA228     | 71  |        |           |     |        |             |      |       |        | TD101A | 07       | TD1000 | 01     | 1                | TS8   | F1                  |                    | 36A                |                  |
| 11679   |        | XA228     | 72  |        | XA326     | 75  |        |             | 16B  | 9     |        | TD102A | 01       | TD1000 | 01     | 2                | TS8   | F1                  |                    | 34A                |                  |
| 11688   |        | XA228     | 73  |        |           |     |        |             |      |       |        | TD107A | 02       | TD1000 | 01     | 3                | TS8   | F1                  |                    | 36B                |                  |
| 05390   |        | XA228     | 74  |        | XA228     | 62  |        |             | 16B  | 9     |        | SPI018 | 26       | TD1000 | 01     | 4                | TS8   | F1                  |                    | 35B                |                  |
| 05358   |        | XA228     | 75  |        | XA222     | 71  |        |             | 16B  | 9     |        | SPT017 | 27       | TD1000 | 01     | 5                | TS8   | F1                  |                    | 37B                |                  |
| 11675   |        | XA228     | 76  |        | XA229     | 77  |        |             | 16B  | 9     |        | TD1000 | 01       | TD1000 | 00     | 1                | TS8   | F1                  |                    | 37A                | TD REG BIT 10 OR |
| 11682   |        | XA228     | 77  |        |           |     |        |             |      |       |        | TD103A | 02       | TD1000 | 01     | 6                | TS8   | F1                  |                    | 38B                |                  |
| 11686   |        | XA228     | 78  |        |           |     |        |             |      |       |        | TD106A | 02       | TD1000 | 01     | 7                | TS8   | F1                  |                    | 38A                |                  |
| 11684   |        | XA228     | 79  |        |           |     |        |             |      |       |        | TD104A | 02       | TD1000 | 01     | 8                | TS8   | F1                  |                    | 39B                |                  |
| 00991   |        | XA228     | 80  |        |           |     |        |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10638   |        | XA229     | 01  |        | XA230     | 01  |        |             | 16B  | 9     |        | TD007A | 01       | TD018N | 01     | 1                | TDD   | BN                  |                    | 02B                |                  |
| 02165   |        | XA229     | 02  |        |           |     |        |             |      |       |        | GND    | 01       |        |        |                  | TDD   |                     |                    | 01B                |                  |
| 11153   |        | XA229     | 03  |        |           |     |        |             |      |       |        | TDS01A | 02       | TD018Q | 01     | 1                | TDD   | BQ                  |                    | 02A                |                  |
| 11111   |        | XA229     | 04  |        | XA229     | 06  |        |             | 16B  | 9     |        | TDRSCA | 02       | TD018P | 01     | 1                | TDD   | BP                  |                    | 04A                |                  |
| 11353   |        | XA229     | 05  |        |           |     |        |             |      |       |        | TD0100 | 02       | TD018I | 01     | 1                | TDD   | BI                  |                    | 03B                |                  |
| 11112   |        | XA229     | 06  |        | XA217     | 06  |        |             | 16B  | 9     |        | TDRSCA | 03       | TD008P | 01     | 1                | TDD   | AP                  |                    | 05A                |                  |
| 11337   |        | XA229     | 07  |        | XA230     | 11  |        |             | 16B  | 9     |        | TD018Q | 02       | TD018Q | 00     | 1                | TDD   | BQ                  |                    | 03A                | TD REG BIT 01 SE |
| 11310   |        | XA229     | 08  |        |           |     |        |             |      |       |        | TD0000 | 02       | TD008I | 01     | 1                | TDD   | AI                  |                    | 06A                |                  |
| 11334   |        | XA229     | 09  |        | XA226     | 05  |        |             | 16B  | 9     |        | TD018P | 02       | TD018P | 00     | 1                | TDD   | BP                  |                    | 04B                | TD REG BIT 01 RE |
| 10640   |        | XA229     | 10  |        | XA229     | 14  |        |             | 16B  | 9     |        | TD007A | 03       | TD008N | 01     | 1                | TDD   | AN                  |                    | 07A                |                  |
| 11291   |        | XA229     | 11  |        | XA226     | 04  |        |             | 16B  | 9     |        | TD008P | 02       | TD008P | 00     | 1                | TDD   | AP                  |                    | 05B                | TD REG BIT 00 RE |
| 00424   |        | XA229     | 12  |        |           |     |        |             |      |       |        | +5V    | 01       |        |        |                  | TDD   |                     |                    |                    |                  |
| 11297   |        | XA229     | 13  |        | XA419     | 11  |        |             | 16B  | 9     |        | TD008Q | 05       | TD008Q | 00     | 1                | TDD   | AQ                  |                    | 06B                | TD REG BIT 00 SE |
| 10641   |        | XA229     | 14  |        | XA229     | 26  |        |             | 16B  | 9     |        | TD007A | 04       | TD038N | 01     | 1                | TDD   | DN                  |                    | 09A                |                  |
| 11149   |        | XA229     | 15  |        |           |     |        |             |      |       |        | TDS00A | 02       | TD008Q | 01     | 1                | TDD   | AQ                  |                    | 07B                |                  |
| 02166   |        | XA229     | 16  |        |           |     |        |             |      |       |        | GND    | 01       |        |        |                  | TDD   |                     |                    | 20B                |                  |
| 11161   |        | XA229     | 17  |        |           |     |        |             |      |       |        | TDS03A | 02       | TD038Q | 01     | 1                | TDD   | DQ                  |                    | 08B                |                  |
| 11439   |        | XA229     | 18  |        |           |     |        |             |      |       |        | TD0300 | 02       | TD038I | 01     | 1                | TDD   | DI                  |                    | 10A                |                  |
| 11423   |        | XA229     | 19  |        | XA231     | 19  |        |             | 16B  | 9     |        | TD038Q | 02       | TD038Q | 00     | 1                | TDD   | DQ                  |                    | 09B                | TD REG BIT 03 SE |
| 11132   |        | XA229     | 20  |        | XA125     | 78  |        |             | 16B  | 9     |        | TDRSEA | 07       | TD038P | 01     | 1                | TDD   | DP                  |                    | 11A                |                  |
| 11420   |        | XA229     | 21  |        | XA226     | 17  |        |             | 16B  | 9     |        | TD038P | 02       | TD038P | 00     | 1                | TDD   | DP                  |                    | 10B                | TD REG BIT 03 RE |
| 11103   |        | XA229     | 22  |        | XA223     | 36  |        |             | 16B  | 9     |        | TDRSBA | 02       | TD028P | 01     | 1                | TDD   | CP                  |                    | 12A                |                  |
| 11374   |        | XA229     | 23  |        | XA226     | 20  |        |             | 16B  | 9     |        | TD028P | 02       | TD028P | 00     | 1                | TDD   | CP                  |                    | 11B                | TD REG BIT 02 RE |
| 11393   |        | XA229     | 24  |        |           |     |        |             |      |       |        | TD0200 | 02       | TD028I | 01     | 1                | TDD   | CI                  |                    | 13A                |                  |
| 11380   |        | XA229     | 25  |        | XA329     | 24  |        |             | 16B  | 9     |        | TD028Q | 05       | TD028Q | 00     | 1                | TDD   | CQ                  |                    | 12B                | TD REG BIT 02 SE |
| 10642   |        | XA229     | 26  |        | XA229     | 30  |        |             | 16B  | 9     |        | TD007A | 05       | TD028N | 01     | 1                | TDD   | CN                  |                    | 14A                |                  |
| 11157   |        | XA229     | 27  |        |           |     |        |             |      |       |        | TDS02A | 02       | TD028Q | 01     | 1                | TDD   | CQ                  |                    | 13B                |                  |
| 00425   |        | XA229     | 28  |        |           |     |        |             |      |       |        | +5V    | 01       |        |        |                  | TDD   |                     |                    |                    |                  |
| 11169   |        | XA229     | 29  |        |           |     |        |             |      |       |        | TDS05A | 02       | TD058Q | 01     | 1                | TDD   | FQ                  |                    | 14B                |                  |
| 10643   |        | XA229     | 30  |        | XA229     | 42  |        |             | 16B  | 9     |        | TD007A | 06       | TD058N | 01     | 1                | TDD   | FN                  |                    | 15A                |                  |
| 11495   |        | XA229     | 31  |        | XA231     | 31  |        |             | 16B  | 9     |        | TD058Q | 02       | TD058Q | 00     | 1                | TDD   | FQ                  |                    | 15B                | TD REG BIT 05 SE |
| 02167   |        | XA229     | 32  |        |           |     |        |             |      |       |        | GND    | 01       |        |        |                  | TDD   |                     |                    | 21B                |                  |
| 11492   |        | XA229     | 33  |        | XA226     | 29  |        |             | 16B  | 9     |        | TD058P | 02       | TD058P | 00     | 1                | TDD   | FP                  |                    | 16B                | TD REG BIT 05 RE |
| 11511   |        | XA229     | 34  |        |           |     |        |             |      |       |        | TD0500 | 02       | TD058I | 01     | 1                | TDD   | FI                  |                    | 16A                |                  |
| 11456   |        | XA229     | 35  |        | XA226     | 36  |        |             | 16B  | 9     |        | TD048P | 02       | TD048P | 00     | 1                | TDD   | EP                  |                    | 17B                | TD REG BIT 04 RE |
| 11131   |        | XA229     | 36  |        | XA229     | 20  |        |             | 16B  | 9     |        | TDRSEA | 06       | TD058P | 01     | 1                | TDD   | FP                  |                    | 17A                |                  |
| CONNECTOR (XA229) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |        |             |      |       |        |        |          |        |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA229  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 137

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | ZONE | PREFIX | CONNECTOR | PIN | ZONE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |        |                  |       |                     |                    |                    |        |
| 11462   |        | XA229     | 37  |      |        | XA329     | 40  |      |             | 16B  | 9     |       |        | TDO4BQ | 05       | TDO4BQ | 00     | 1                | TDD   | EQ                  | 18B                | TD REG BIT 04 SE   |        |
| 11130   |        | XA229     | 38  |      |        | XA229     | 36  |      |             | 16B  | 9     |       |        | TDRSEA | 05       | TD04BP | 01     | 1                | TDD   | EP                  | 18A                |                    |        |
| 11165   |        | XA229     | 39  |      |        |           |     |      |             |      |       |       |        | TDS04A | 02       | TD04B0 | 01     | 1                | TDD   | EQ                  | 19B                |                    |        |
| 11475   |        | XA229     | 40  |      |        |           |     |      |             |      |       |       |        | TD0400 | 02       | TD04B1 | 01     | 1                | TDD   | E1                  | 19A                |                    |        |
| 11177   |        | XA229     | 41  |      |        |           |     |      |             |      |       |       |        | TDS07A | 02       | TD07BQ | 01     | 1                | TDD   | HQ                  | 22B                |                    |        |
| 10644   |        | XA229     | 42  |      |        |           |     |      |             |      |       |       |        | TDC07A | 07       | TD04BN | 01     | 1                | TDD   | EN                  | 20A                |                    |        |
| 11567   |        | XA229     | 43  |      |        | XA231     | 43  |      |             | 16B  | 9     |       |        | TD07BQ | 02       | TD07BQ | 00     | 1                | TDD   | HQ                  | 23B                | TD REG BIT 07 SE   |        |
| 02168   |        | XA229     | 44  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |        |        |                  | TDD   |                     | 27A                |                    |        |
| 11564   |        | XA229     | 45  |      |        | XA226     | 41  |      |             | 16B  | 9     |       |        | TD07BP | 02       | TD07BP | 00     | 1                | TDD   | HP                  | 24B                | TD REG BIT 07 RE   |        |
| 10646   |        | XA229     | 46  |      |        | XA229     | 56  |      |             | 16B  | 9     |       |        | TDC17A | 02       | TD07BN | 01     | 1                | TDD   | HN                  | 21A                |                    |        |
| 11528   |        | XA229     | 47  |      |        | XA226     | 50  |      |             | 16B  | 9     |       |        | TD06BP | 02       | TD06BP | 00     | 1                | TDD   | GP                  | 25B                | TD REG BIT 06 RE   |        |
| 11583   |        | XA229     | 48  |      |        |           |     |      |             |      |       |       |        | TD0700 | 02       | TD07B1 | 01     | 1                | TDD   | HI                  | 22A                |                    |        |
| 11531   |        | XA229     | 49  |      |        | XA231     | 41  |      |             | 16B  | 9     |       |        | TD06BQ | 02       | TD06BQ | 00     | 1                | TDD   | GQ                  | 26B                | TD REG BIT 06 SE   |        |
| 11129   |        | XA229     | 50  |      |        | XA229     | 38  |      |             | 16B  | 9     |       |        | TDRSEA | 04       | TD07BP | 01     | 1                | TDD   | HP                  | 23A                |                    |        |
| 11173   |        | XA229     | 51  |      |        |           |     |      |             |      |       |       |        | TDS06A | 02       | TD06BQ | 01     | 1                | TDD   | GQ                  | 27B                |                    |        |
| 11128   |        | XA229     | 52  |      |        | XA229     | 50  |      |             | 16B  | 9     |       |        | TDRSEA | 03       | TD06BP | 01     | 1                | TDD   | GP                  | 24A                |                    |        |
| 11185   |        | XA229     | 53  |      |        |           |     |      |             |      |       |       |        | TDS09A | 02       | TD09BP | 01     | 1                | TDD   | KQ                  | 28B                |                    |        |
| 11547   |        | XA229     | 54  |      |        |           |     |      |             |      |       |       |        | TD0600 | 02       | TD06B1 | 01     | 1                | TDD   | GI                  | 25A                |                    |        |
| 11629   |        | XA229     | 55  |      |        | XA230     | 53  |      |             | 16B  | 9     |       |        | TD09BQ | 02       | TD09BQ | 00     | 1                | TDD   | KQ                  | 29B                | TD REG BIT 09 SE   |        |
| 10647   |        | XA229     | 56  |      |        |           |     |      |             |      |       |       |        | TDC17A | 03       | TD06BN | 01     | 1                | TDD   | GN                  | 26A                |                    |        |
| 11626   |        | XA229     | 57  |      |        | XA226     | 55  |      |             | 16B  | 9     |       |        | TD09BP | 02       | TD09BP | 00     | 1                | TDD   | KP                  | 30B                | TD REG BIT 09 RE   |        |
| 02169   |        | XA229     | 58  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |        |        |                  | TDD   |                     | 40A                |                    |        |
| 11595   |        | XA229     | 59  |      |        | XA226     | 62  |      |             | 16B  | 9     |       |        | TD08BP | 02       | TD08BP | 00     | 1                | TDD   | JP                  | 31B                | TD REG BIT 08 RE   |        |
| 10684   |        | XA229     | 60  |      |        | XA230     | 52  |      |             | 16B  | 9     |       |        | TDC85A | 04       | TD09BN | 01     | 1                | TDD   | KN                  | 28A                |                    |        |
| 11598   |        | XA229     | 61  |      |        | XA231     | 55  |      |             | 16B  | 9     |       |        | TD08BQ | 02       | TD08BQ | 00     | 1                | TDD   | JQ                  | 32B                | TD REG BIT 08 SE   |        |
| 11645   |        | XA229     | 62  |      |        |           |     |      |             |      |       |       |        | TD0900 | 02       | TD09B1 | 01     | 1                | TDD   | KI                  | 29A                |                    |        |
| 11181   |        | XA229     | 63  |      |        |           |     |      |             |      |       |       |        | TDS08A | 02       | TD08BQ | 01     | 1                | TDD   | JQ                  | 33B                |                    |        |
| 11127   |        | XA229     | 64  |      |        | XA229     | 52  |      |             | 16B  | 9     |       |        | TDRSEA | 02       | TD09BP | 01     | 1                | TDD   | KP                  | 30A                |                    |        |
| 11193   |        | XA229     | 65  |      |        |           |     |      |             |      |       |       |        | TDS11A | 02       | TD11BQ | 01     | 1                | TDD   | MQ                  | 34B                |                    |        |
| 11126   |        | XA229     | 66  |      |        | XA229     | 64  |      |             | 16B  | 9     |       |        | TDRSEA | 01       | TD08BP | 01     | 1                | TDD   | JP                  | 31A                |                    |        |
| 02170   |        | XA229     | 67  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |        |        |                  | TDD   |                     | 40B                |                    |        |
| 11614   |        | XA229     | 68  |      |        |           |     |      |             |      |       |       |        | TD0800 | 02       | TD08B1 | 01     | 1                | TDD   | JI                  | 32A                |                    |        |
| 11690   |        | XA229     | 69  |      |        | XA231     | 76  |      |             | 16B  | 9     |       |        | TD11BP | 02       | TD11BP | 00     | 1                | TDD   | MP                  | 35A                | TD REG BIT 11 RE   |        |
| 10683   |        | XA229     | 70  |      |        | XA229     | 60  |      |             | 16B  | 9     |       |        | TDC85A | 03       | TD08BN | 01     | 1                | TDD   | JN                  | 33A                |                    |        |
| 11708   |        | XA229     | 71  |      |        | XA424     | 59  |      |             | 16B  | 9     |       |        | TD1100 | 01       | TD11B1 | 01     | 1                | TDD   | MI                  | 36A                |                    |        |
| 10682   |        | XA229     | 72  |      |        | XA229     | 70  |      |             | 16B  | 9     |       |        | TDC85A | 02       | TD11BN | 01     | 1                | TDD   | MN                  | 34A                |                    |        |
| 11119   |        | XA229     | 73  |      |        | XA217     | 66  |      |             | 16B  | 9     |       |        | TDRSDA | 02       | TD11BP | 01     | 1                | TDD   | MP                  | 36B                |                    |        |
| 11695   |        | XA229     | 74  |      |        | XA230     | 77  |      |             | 16B  | 9     |       |        | TD11BQ | 04       | TD11BQ | 00     | 1                | TDD   | MQ                  | 35B                | TD REG BIT 11 SE   |        |
| 11118   |        | XA229     | 75  |      |        | XA229     | 73  |      |             | 16B  | 9     |       |        | TDRSDA | 01       | TD10BP | 01     | 1                | TDD   | LP                  | 37B                |                    |        |
| 11657   |        | XA229     | 76  |      |        | XA231     | 78  |      |             | 16B  | 9     |       |        | TD10BP | 02       | TD10BP | 00     | 1                | TDD   | LP                  | 37A                | TD REG BIT 10 RE   |        |
| 11676   |        | XA229     | 77  |      |        |           |     |      |             |      |       |       |        | TD1000 | 02       | TD10B1 | 01     | 1                | TDD   | LI                  | 38B                |                    |        |
| 11663   |        | XA229     | 78  |      |        | XA329     | 77  |      |             | 16B  | 9     |       |        | TD10BQ | 05       | TD10BQ | 00     | 1                | TDD   | LQ                  | 38A                | TD REG BIT 10 SE   |        |
| 10681   |        | XA229     | 79  |      |        | XA229     | 72  |      |             | 16B  | 9     |       |        | TDC85A | 01       | TD10BN | 01     | 1                | TDD   | LN                  | 39B                |                    |        |
| 11189   |        | XA229     | 80  |      |        |           |     |      |             |      |       |       |        | TDS10A | 02       | TD10BQ | 01     | 1                | TDD   | LQ                  | 39A                |                    |        |
| 10639   |        | XA230     | 01  |      |        | XA229     | 10  |      |             | 16B  | 9     |       |        | TDC07A | 02       | TDC07A | 00     | 1                | TQ2   | A2                  | 02B                | CLOCK FOR TD BIT   |        |
| 02171   |        | XA230     | 02  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     | 01A                |                    |        |
| 16878   |        | XA230     | 03  |      |        | XA231     | 08  |      |             | 16B  | 9     |       |        | TWTDA0 | 07       | TF013A | 01     | 1                | TQ2   | A3                  | 02A                |                    |        |
| 10636   |        | XA230     | 04  |      |        | XA247     | 23  |      |             | 16B  | 9     |       |        | TDC010 | 02       | TDC07A | 01     | 1                | TQ2   | A2                  | 04A                |                    |        |
| CONNECTOR (XA230) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA230  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 138

| RECORD NUMBER | FROM   |           |     | TO  |        |           | WIRE |     |             |      | SFC INST | SIGNAL | SFC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|-----|--------|-----------|------|-----|-------------|------|----------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | SFC | PREFIX | CONNECTOR | PIN  | SFC | MULTI GROUP | CODE |          |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13698         |        | XA230     | 05  |     | XA230  | 34        |      |     | 16B         | 9    |          | TKAACB | 03     | TDC07A   | 01   | 2      | TQ2              | A2    |                     | 03B                | OUTPUT NORMAL      |        |
| 15907         |        | XA230     | 06  |     | XA341  | 53        |      |     | 16B         | 9    |          | TS051A | 01     | TS051A   | 00   | 1      | TQ2              | A1    |                     | 05A                |                    |        |
| 11339         |        | XA230     | 07  |     | XA231  | 07        |      |     | 16B         | 9    |          | TD01BQ | 04     | TF013A   | 01   | 2      | TQ2              | A3    |                     | 03A                | TD01 TO TE01 WOR   |        |
| 16499         |        | XA230     | 08  |     |        |           |      |     |             |      |          | TS4M50 | 03     | TS051A   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 12970         |        | XA230     | 09  |     |        |           |      |     | 16B         | 9    |          | TF013A | 02     | TF013A   | 00   | 1      | TQ2              | A3    |                     | 04B                | TD01 TO TE01 WOR   |        |
| 11723         |        | XA230     | 10  |     | XA343  | 77        |      |     | 16B         | 9    |          | TD12BP | 04     | TS051A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 11338         |        | XA230     | 11  |     | XA230  | 07        |      |     | 16B         | 9    |          | TD01BQ | 03     | TF014A   | 01   | 1      | TQ2              | A4    |                     | 05B                | OFRO BANK ADD TO   |        |
| 00426         |        | XA230     | 12  |     |        |           |      |     |             |      |          | +5V    | 01     |          |      |        | TQ2              |       |                     | 07B                |                    |        |
| 14415         |        | XA230     | 13  |     | XA230  | 23        |      |     | 16B         | 9    |          | TMUUA0 | 07     | TF014A   | 01   | 2      | TQ2              | A4    |                     | 06B                | TD01 TO TE01 GAT   |        |
| 10349         |        | XA230     | 14  |     | XA320  | 41        |      |     | 16B         | 9    |          | TC161A | 01     | TC161A   | 00   | 1      | TQ2              | B2    |                     | 09A                |                    |        |
| 12971         |        | XA230     | 15  |     | XA243  | 18        |      |     | 16B         | 9    |          | TF014A | 01     | TF014A   | 00   | 1      | TQ2              | A4    |                     | 07B                | TD03 TO TE03 WOR   |        |
| 02172         |        | XA230     | 16  |     |        |           |      |     |             |      |          | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 16877         |        | XA230     | 17  |     | XA230  | 03        |      |     | 16B         | 9    |          | TWTDAA | 06     | TF033A   | 01   | 1      | TQ2              | B3    |                     | 08B                | TD03 TO TE03 GAT   |        |
| 16466         |        | XA230     | 18  |     | XA225  | 10        |      |     | 16B         | 9    |          | TS28F0 | 03     | TC161A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 11425         |        | XA230     | 19  |     | XA230  | 25        |      |     | 16B         | 9    |          | TD03BQ | 04     | TF033A   | 01   | 2      | TQ2              | B3    |                     | 09B                | TD03 TO TE03 WOR   |        |
| 11933         |        | XA230     | 20  |     | XA223  | 49        |      |     | 16B         | 9    |          | TD18BQ | 02     | TC161A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 13002         |        | XA230     | 21  |     |        |           |      |     |             |      |          | TF033A | 02     | TF033A   | 00   | 1      | TQ2              | B3    |                     | 10B                | TD03 TO TE03 GAT   |        |
| 13536         |        | XA230     | 22  |     |        |           |      |     |             |      |          | TI10CA | 03     | TI10CA   | 00   | 1      | TQ2              | B1    |                     | 12A                |                    |        |
| 14416         |        | XA230     | 23  |     | XA231  | 05        |      |     | 16B         | 9    |          | TMUUA0 | 08     | TF034A   | 01   | 1      | TQ2              | B4    |                     | 11B                | TD05 TO TE05 WOR   |        |
| 12529         |        | XA230     | 24  |     | XA122  | 53        |      |     | 16B         | 9    |          | TENBBP | 05     | TI10CA   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 11426         |        | XA230     | 25  |     | XA329  | 18        |      |     | 16B         | 9    |          | TD03BQ | 05     | TF034A   | 01   | 2      | TQ2              | B4    |                     | 12B                | TD05 TO TE05 GAT   |        |
| 13529         |        | XA230     | 26  |     | XA128  | 64        |      |     | 16B         | 9    |          | TI10BQ | 05     | TI10CA   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 13003         |        | XA230     | 27  |     | XA243  | 56        |      |     | 16B         | 9    |          | TF034A | 01     | TF034A   | 00   | 1      | TQ2              | B4    |                     | 13B                | CLOCK FOR TD BIT   |        |
| 00427         |        | XA230     | 28  |     |        |           |      |     |             |      |          | +5V    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 11497         |        | XA230     | 29  |     | XA230  | 35        |      |     | 16B         | 9    |          | TD05BQ | 04     | TF053A   | 01   | 1      | TQ2              | C3    |                     | 14B                | TD05 TO TE05 WOR   |        |
| 10680         |        | XA230     | 30  |     |        |           |      |     |             |      |          | TDC84A | 03     | TDC84A   | 00   | 1      | TQ2              | C2    |                     | 15A                |                    |        |
| 16876         |        | XA230     | 31  |     | XA230  | 17        |      |     | 16B         | 9    |          | TWTDAA | 05     | TF053A   | 01   | 2      | TQ2              | C3    |                     | 15B                | CLOCK FOR TD BIT   |        |
| 02173         |        | XA230     | 32  |     |        |           |      |     |             |      |          | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 13034         |        | XA230     | 33  |     |        |           |      |     |             |      |          | TF053A | 02     | TF053A   | 00   | 1      | TQ2              | C3    |                     | 16B                | TD05 TO TE05 GAT   |        |
| 13699         |        | XA230     | 34  |     | XA230  | 40        |      |     | 16B         | 9    |          | TKAACB | 04     | TDC84A   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 11498         |        | XA230     | 35  |     | XA329  | 34        |      |     | 16B         | 9    |          | TD05BQ | 05     | TF054A   | 01   | 1      | TQ2              | C4    |                     | 17B                | CLOCK FOR TD BIT   |        |
| 10670         |        | XA230     | 36  |     |        |           |      |     |             |      |          | TDC820 | 03     | TDC84A   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 14412         |        | XA230     | 37  |     | XA231  | 36        |      |     | 16B         | 9    |          | TMUUA0 | 04     | TF054A   | 01   | 2      | TQ2              | C4    |                     | 18B                | TD05 TO TE05 GAT   |        |
| 10665         |        | XA230     | 38  |     | XA223  | 42        |      |     | 16B         | 9    |          | TDC67A | 01     | TDC67A   | 00   | 1      | TQ2              | C1    |                     | 18A                |                    |        |
| 13035         |        | XA230     | 39  |     | XA243  | 79        |      |     | 16B         | 9    |          | TF054A | 01     | TF054A   | 00   | 1      | TQ2              | C4    |                     | 19B                | CLOCK FOR TD BIT   |        |
| 13700         |        | XA230     | 40  |     | XA230  | 48        |      |     | 16B         | 9    |          | TKAACB | 05     | TDC67A   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 16875         |        | XA230     | 41  |     | XA230  | 31        |      |     | 16B         | 9    |          | TWTDAA | 04     | TF073A   | 01   | 1      | TQ2              | D3    |                     | 22B                | TD07 TO TE07 WOR   |        |
| 10661         |        | XA230     | 42  |     | XA334  | 23        |      |     | 16B         | 9    |          | TDC610 | 01     | TDC67A   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 11569         |        | XA230     | 43  |     | XA230  | 49        |      |     | 16B         | 9    |          | TD07BQ | 04     | TF073A   | 01   | 2      | TQ2              | D3    |                     | 23B                | CLOCK FOR TD BIT   |        |
| 02174         |        | XA230     | 44  |     |        |           |      |     |             |      |          | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 13066         |        | XA230     | 45  |     |        |           |      |     |             |      |          | TF073A | 02     | TF073A   | 00   | 1      | TQ2              | D3    |                     | 24B                | CLOCK FOR TD BIT   |        |
| 10645         |        | XA230     | 46  |     | XA229  | 46        |      |     | 16B         | 9    |          | TDC17A | 01     | TDC17A   | 00   | 1      | TQ2              | D2    |                     | 21A                |                    |        |
| 14411         |        | XA230     | 47  |     | XA230  | 37        |      |     | 16B         | 9    |          | TMUUA0 | 03     | TF074A   | 01   | 1      | TQ2              | D4    |                     | 25B                | CLOCK FOR TD BIT   |        |
| 13701         |        | XA230     | 48  |     | XA230  | 56        |      |     | 16B         | 9    |          | TKAACB | 06     | TDC17A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 11570         |        | XA230     | 49  |     | XA329  | 48        |      |     | 16B         | 9    |          | TD07BQ | 05     | TF074A   | 01   | 2      | TQ2              | D4    |                     | 26B                | TD07 TO TE07 GAT   |        |
| 10635         |        | XA230     | 50  |     | XA230  | 04        |      |     | 16B         | 9    |          | TDC010 | 01     | TDC17A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 13067         |        | XA230     | 51  |     | XA247  | 31        |      |     | 16B         | 9    |          | TF074A | 01     | TF074A   | 00   | 1      | TQ2              | D4    |                     | 27B                | CLOCK FOR TD BIT   |        |
| 10685         |        | XA230     | 52  |     | XA223  | 10        |      |     | 16B         | 9    |          | TDC85A | 05     | TDC85A   | 00   | 1      | TQ2              | D1    |                     | 24A                |                    |        |
| 11630         |        | XA230     | 53  |     | XA231  | 53        |      |     | 16B         | 9    |          | TD09BQ | 03     | TF015A   | 01   | 1      | TQ2              | E3    |                     | 28B                | CLOCK FOR TD BIT   |        |
| 10669         |        | XA230     | 54  |     | XA230  | 36        |      |     | 16B         | 9    |          | TDC820 | 02     | TDC85A   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |

CONNECTOR (XA230) CONTINUED ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA230  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 139

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14402         |        | XA230     | 55                              |      | XA230  | 59        |     |      | 16B         | 9    |       |       | TMULA0 | 05     | TF015A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 13702         |        | XA230     | 56                              |      | XA231  | 62        |     |      | 16B         | 9    |       |       | TKAACB | 07     | TDC85A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 12974         |        | XA230     | 57                              |      |        |           |     |      |             |      |       |       | TF015A | 02     | TF015A   | 00   | 1      | TQ2              | E3    |                     | 30B                | TD09 TO TE01 GAT   |        |
| 02175         |        | XA230     | 58                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 14403         |        | XA230     | 59                              |      | XA231  | 68        |     |      | 16B         | 9    |       |       | TMULA0 | 06     | TF035A   | 01   | 1      | TQ2              | E4    |                     | 31B                | TD09 TO TE09 WOR   |        |
| 13090         |        | XA230     | 60                              |      |        |           |     |      |             |      |       |       | TF093A | 02     | TF093A   | 00   | 1      | TQ2              | E2    |                     | 28A                |                    |        |
| 11693         |        | XA230     | 61                              |      | XA231  | 74        |     |      | 16B         | 9    |       |       | TD11BQ | 02     | TF035A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 16884         |        | XA230     | 62                              |      | XA225  | 20        |     |      | 16B         | 9    |       |       | TWTD80 | 04     | TF093A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 13006         |        | XA230     | 63                              |      |        |           |     |      |             |      |       |       | TF035A | 02     | TF035A   | 00   | 1      | TQ2              | E4    |                     | 33B                | TD11 TO TE03 GAT   |        |
| 11632         |        | XA230     | 64                              |      | XA329  | 62        |     |      | 16B         | 9    |       |       | TD09BQ | 05     | TF093A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 17049         |        | XA230     | 65                              |      | XA140  | 60        |     |      | 16B         | 9    |       |       | TOFR0A | 01     | TOFR00   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 13082         |        | XA230     | 66                              |      |        |           |     |      |             |      |       |       | TF083A | 02     | TF083A   | 00   | 1      | TQ2              | E1    |                     | 31A                | TD08 TO TE08 WOR   |        |
| 02176         |        | XA230     | 67                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 11601         |        | XA230     | 68                              |      | XA419  | 49        |     |      | 16B         | 9    |       |       | TD08BQ | 05     | TF083A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 17053         |        | XA230     | 69                              |      |        |           |     |      |             |      |       |       | TOFR00 | 02     | TOFR00   | 00   | 1      | TQ2              | F3    |                     | 35A                | OFR TO ADDRESS ZE  |        |
| 16883         |        | XA230     | 70                              |      | XA230  | 62        |     |      | 16B         | 9    |       |       | TWTD80 | 03     | TF083A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 11967         |        | XA230     | 71                              |      | XA223  | 43        |     |      | 16B         | 9    |       |       | TD19BQ | 02     | TC171A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 10366         |        | XA230     | 72                              |      | XA320  | 47        |     |      | 16B         | 9    |       |       | TC171A | 01     | TC171A   | 00   | 1      | TQ2              | F2    |                     | 34A                | OFR0 BANK ADD TO   |        |
| 16465         |        | XA230     | 73                              |      | XA230  | 18        |     |      | 16B         | 9    |       |       | TS28F0 | 02     | TC171A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 05336         |        | XA230     | 74                              |      | XA232  | 64        |     |      | 16B         | 9    |       |       | SPIO17 | 05     | TOFR00   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 13106         |        | XA230     | 75                              |      |        |           |     |      |             |      |       |       | TF113A | 02     | TF113A   | 00   | 1      | TQ2              | F1    |                     | 37B                | TD11 TO TE11 WOR   |        |
| 16732         |        | XA230     | 76                              |      | XA224  | 69        |     |      | 16B         | 9    |       |       | TU09A0 | 01     | TD092A   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 11696         |        | XA230     | 77                              |      | XA329  | 71        |     |      | 16B         | 9    |       |       | TD11BQ | 05     | TF113A   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 08903         |        | XA230     | 78                              |      | XA326  | 79        |     |      | 16B         | 9    |       |       | TBLDA0 | 05     | TD092A   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 16881         |        | XA230     | 79                              |      | XA231  | 73        |     |      | 16B         | 9    |       |       | TWTD80 | 01     | TF113A   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 11648         |        | XA230     | 80                              |      | XA227  | 55        |     |      | 16B         | 9    |       |       | TD092A | 01     | TD092A   | 00   | 1      | TQ2              | F4    |                     | 39A                | UPDATE TC09 TO T   |        |
| 12956         |        | XA231     | 01                              |      |        |           |     |      |             |      |       |       | TF004A | 02     | TF004A   | 00   | 1      | TQ2              | A2    |                     | 02B                | TD00 TO TE00 GAT   |        |
| 02177         |        | XA231     | 02                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 11294         |        | XA231     | 03                              |      | XA231  | 04        |     |      | 16B         | 9    |       |       | TD00BQ | 02     | T0001A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 11255         |        | XA231     | 04                              |      | XA231  | 10        |     |      | 16B         | 9    |       |       | TD00BQ | 03     | TF004A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 14417         |        | XA231     | 05                              |      |        |           |     |      |             |      |       |       | TMUUA0 | 09     | TF004A   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 12953         |        | XA231     | 06                              |      | XA243  | 04        |     |      | 16B         | 9    |       |       | TF003A | 01     | TF003A   | 00   | 1      | TQ2              | A1    |                     | 05A                | TD00 TO TE00 WOR   |        |
| 11340         |        | XA231     | 07                              |      | XA329  | 05        |     |      | 16B         | 9    |       |       | TD01BQ | 05     | T0001A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 16879         |        | XA231     | 08                              |      | XA138  | 69        |     |      | 16B         | 9    |       |       | TWTD80 | 08     | TF003A   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 17066         |        | XA231     | 09                              |      | XA111  | 08        |     |      | 16B         | 9    |       |       | T0001A | 01     | T0001A   | 00   | 1      | TQ2              | A3    |                     | 04B                | PARITY 0.1         |        |
| 11296         |        | XA231     | 10                              |      | XA229  | 13        |     |      | 16B         | 9    |       |       | TD00BQ | 04     | TF003A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 11333         |        | XA231     | 11                              |      | XA229  | 09        |     |      | 16B         | 9    |       |       | TD01BP | 01     | T0100A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00428         |        | XA231     | 12                              |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 11290         |        | XA231     | 13                              |      | XA229  | 11        |     |      | 16B         | 9    |       |       | TD00BP | 01     | T0100A   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 12987         |        | XA231     | 14                              |      | XA243  | 38        |     |      | 16B         | 9    |       |       | TF024A | 01     | TF024A   | 00   | 1      | TQ2              | B2    |                     | 09A                | TD02 TO TE02 GAT   |        |
| 17090         |        | XA231     | 15                              |      |        |           |     |      |             |      |       |       | T0100A | 03     | T0100A   | 00   | 1      | TQ2              | A4    |                     | 07B                | PARITY 0*.1*       |        |
| 02178         |        | XA231     | 16                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 11377         |        | XA231     | 17                              |      | XA231  | 20        |     |      | 16B         | 9    |       |       | TD02BQ | 02     | T0203A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 14414         |        | XA231     | 18                              |      | XA230  | 13        |     |      | 16B         | 9    |       |       | TMUUA0 | 06     | TF024A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 11424         |        | XA231     | 19                              |      | XA230  | 19        |     |      | 16B         | 9    |       |       | TD03BQ | 03     | T0203A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 11378         |        | XA231     | 20                              |      | XA231  | 26        |     |      | 16B         | 9    |       |       | TD02BQ | 03     | TF024A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 17095         |        | XA231     | 21                              |      | XA110  | 10        |     |      | 16B         | 9    |       |       | T0203A | 01     | T0203A   | 00   | 1      | TQ2              | B3    |                     | 10B                | PARITY 2.3         |        |
| 12986         |        | XA231     | 22                              |      |        |           |     |      |             |      |       |       | TF023A | 02     | TF023A   | 00   | 1      | TQ2              | B1    |                     | 12A                | TD02 TO TE02 WOR   |        |
| CONNECTOR     |        | XA231     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA231  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 140

| RECORD NUMBER                                     | FROM   |           |     | WIRE | TO     |           |     | MULTI GROUP | WIRE CODE | WIRE COLOR | WIRE IDENT | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|-------------|-----------|------------|------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |      | PREFIX | CONNECTOR | PIN |             |           |            |            |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 11419   |        | XA231     | 23  |      | XA229  | 21        |     |             | 168       | 9          |            | TD03BP | 01     | T0302A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 16873   |        | XA231     | 24  |      | XA231  | 40        |     |             | 168       | 9          |            | TWTDAA | 02     | TF023A   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 11373   |        | XA231     | 25  |      | XA229  | 23        |     |             | 168       | 9          |            | TD02BP | 01     | T0302A   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 11379   |        | XA231     | 26  |      | XA229  | 25        |     |             | 168       | 9          |            | TD02BQ | 04     | TF023A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 17107   |        | XA231     | 27  |      | XA111  | 04        |     |             | 168       | 9          |            | T0302A | 01     | T0302A   | 00   | 1      | TQ2              | B4    |                     | 13B                | PARITY 2*.3*       |        |
| 00429   |        | XA231     | 28  |      |        |           |     |             |           |            |            | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 11459   |        | XA231     | 29  |      | XA231  | 34        |     |             | 168       | 9          |            | TD04BQ | 02     | T0405A   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 13019   |        | XA231     | 30  |      | XA243  | 70        |     |             | 168       | 9          |            | TF044A | 01     | TF044A   | 00   | 1      | TQ2              | C2    |                     | 15A                | TD04 TO TE04 GAT   |        |
| 11496   |        | XA231     | 31  |      | XA230  | 29        |     |             | 168       | 9          |            | TD05BQ | 03     | T0405A   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 02179   |        | XA231     | 32  |      |        |           |     |             |           |            |            | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 17112   |        | XA231     | 33  |      | XA110  | 24        |     |             | 168       | 9          |            | T0405A | 01     | T0405A   | 00   | 1      | TQ2              | C3    |                     | 16B                | PARITY 4-5         |        |
| 11460   |        | XA231     | 34  |      | XA231  | 42        |     |             | 168       | 9          |            | TD04BQ | 03     | TF044A   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 11491   |        | XA231     | 35  |      | XA229  | 33        |     |             | 168       | 9          |            | TD05BP | 01     | T0504A   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 14413   |        | XA231     | 36  |      | XA231  | 18        |     |             | 168       | 9          |            | TMUUAO | 05     | TF044A   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 11455   |        | XA231     | 37  |      | XA229  | 35        |     |             | 168       | 9          |            | TD04BP | 01     | T0504A   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 13018   |        | XA231     | 38  |      |        |           |     |             |           |            |            | TF043A | 02     | TF043A   | 00   | 1      | TQ2              | C1    |                     | 18A                | TD04 TO TE04 WOR   |        |
| 17118   |        | XA231     | 39  |      | XA110  | 26        |     |             | 168       | 9          |            | T0504A | 01     | T0504A   | 00   | 1      | TQ2              | C4    |                     | 19B                | PARITY 4*.5*       |        |
| 16874   |        | XA231     | 40  |      | XA230  | 41        |     |             | 168       | 9          |            | TWTDAA | 03     | TF043A   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 11532   |        | XA231     | 41  |      | XA231  | 48        |     |             | 168       | 9          |            | TD06BQ | 03     | T0607A   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 11461   |        | XA231     | 42  |      | XA229  | 37        |     |             | 168       | 9          |            | TD04BQ | 04     | TF043A   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 11568   |        | XA231     | 43  |      | XA230  | 43        |     |             | 168       | 9          |            | TD07BQ | 03     | T0607A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02180   |        | XA231     | 44  |      |        |           |     |             |           |            |            | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 17123   |        | XA231     | 45  |      |        |           |     |             |           |            |            | T0607A | 03     | T0607A   | 00   | 1      | TQ2              | D3    |                     | 24B                | PARITY 6-7         |        |
| 13051   |        | XA231     | 46  |      | XA247  | 50        |     |             | 168       | 9          |            | TF064A | 01     | TF064A   | 00   | 1      | TQ2              | D2    |                     | 21A                | TD06 TO TE06 GAT   |        |
| 11583   |        | XA231     | 47  |      | XA229  | 45        |     |             | 168       | 9          |            | TD07BP | 01     | T0706A   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 11533   |        | XA231     | 48  |      | XA231  | 54        |     |             | 168       | 9          |            | TD06BQ | 04     | TF064A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 11527   |        | XA231     | 49  |      | XA229  | 47        |     |             | 168       | 9          |            | TD06BP | 01     | T0706A   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 14410   |        | XA231     | 50  |      | XA230  | 47        |     |             | 168       | 9          |            | TMUUAO | 02     | TF064A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 17132   |        | XA231     | 51  |      |        |           |     |             |           |            |            | T0706A | 03     | T0706A   | 00   | 1      | TQ2              | D4    |                     | 27B                | PARITY 6*.7*       |        |
| 13050   |        | XA231     | 52  |      |        |           |     |             |           |            |            | TF063A | 02     | TF063A   | 00   | 1      | TQ2              | D1    |                     | 24A                | TD06 TO TE06 WOR   |        |
| 11631   |        | XA231     | 53  |      | XA230  | 64        |     |             | 168       | 9          |            | TD09BQ | 04     | T0809A   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 11534   |        | XA231     | 54  |      | XA329  | 54        |     |             | 168       | 9          |            | TD06BQ | 05     | TF063A   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 11595   |        | XA231     | 55  |      | XA231  | 70        |     |             | 168       | 9          |            | TD08BQ | 03     | T0809A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 16872   |        | XA231     | 56  |      | XA231  | 24        |     |             | 168       | 9          |            | TWTDAA | 01     | TF063A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 17135   |        | XA231     | 57  |      |        |           |     |             |           |            |            | T0809A | 03     | T0809A   | 00   | 1      | TQ2              | E3    |                     | 30B                | PARITY 8-9         |        |
| 02181   |        | XA231     | 58  |      |        |           |     |             |           |            |            | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 11625   |        | XA231     | 59  |      | XA229  | 57        |     |             | 168       | 9          |            | TD09BP | 01     | T0908A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 10677   |        | XA231     | 60  |      |        |           |     |             |           |            |            | TDC83A | 07     | TDC83A   | 00   | 1      | TQ2              | E2    |                     | 28A                | CLOCK FOR TD BIT   |        |
| 11594   |        | XA231     | 61  |      | XA229  | 59        |     |             | 168       | 9          |            | TD08BP | 01     | T0908A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 13703   |        | XA231     | 62  |      | XA335  | 45        |     |             | 168       | 9          |            | TKAACB | 08     | TDC83A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 17144   |        | XA231     | 63  |      |        |           |     |             |           |            |            | T0908A | 03     | T0908A   | 00   | 1      | TQ2              | E4    |                     | 33B                | PARITY 8*.9*       |        |
| 10664   |        | XA231     | 64  |      |        |           |     |             |           |            |            | TDC620 | 02     | TDC83A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 11660   |        | XA231     | 65  |      | XA231  | 71        |     |             | 168       | 9          |            | TD10BQ | 02     | T1011A   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 12957   |        | XA231     | 66  |      | XA243  | 01        |     |             | 168       | 9          |            | TF005A | 01     | TF005A   | 00   | 1      | TQ2              | E1    |                     | 31A                | TD08 TO TE00 GAT   |        |
| 02182   |        | XA231     | 67  |      |        |           |     |             |           |            |            | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 14404   |        | XA231     | 68  |      | XA231  | 77        |     |             | 168       | 9          |            | TMULAO | 07     | TF005A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 17147   |        | XA231     | 69  |      |        |           |     |             |           |            |            | T1011A | 03     | T1011A   | 00   | 1      | TQ2              | F3    |                     | 35A                | PARITY 10.11       |        |
| 11600   |        | XA231     | 70  |      | XA230  | 68        |     |             | 168       | 9          |            | TD08BQ | 04     | TF005A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 11661   |        | XA231     | 71  |      | XA231  | 79        |     |             | 168       | 9          |            | TD10BQ | 03     | TF103A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 13098   |        | XA231     | 72  |      |        |           |     |             |           |            |            | TF103A | 02     | TF103A   | 00   | 1      | TQ2              | F2    |                     | 34A                | TD10 TO TE10 WOR   |        |
| CONNECTOR (XA231) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |             |           |            |            |        |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA231  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 141

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | C/T OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |        |                  |       |                     |                    |                    |        |
| 16882         |        | XA231     | 73                              |        | XA230     | 70  |             |      | 16B   | 9     |        | TWT0B0 | 02       | TF103A | 01     | 2                | TQ2   | F2                  | 36B                |                    |        |
| 11694         |        | XA231     | 74                              |        | XA229     | 74  |             |      | 16B   | 9     |        | TD11BQ | 03       | T1011A | 01     | 2                | TQ2   | F3                  | 35B                |                    |        |
| 12990         |        | XA231     | 75                              |        |           |     |             |      |       |       |        | TF025A | 02       | TF025A | 00     | 1                | TQ2   | F1                  | 37B                | TD10 TO TE02 GAT   |        |
| 11691         |        | XA231     | 76                              |        |           |     |             |      |       |       |        | TD11BP | 03       | T1110A | 01     | 1                | TQ2   | F4                  | 37A                |                    |        |
| 14405         |        | XA231     | 77                              |        | XA324     | 10  |             |      | 16B   | 9     |        | TMULA0 | 08       | TF025A | 01     | 1                | TQ2   | F1                  | 38B                |                    |        |
| 11658         |        | XA231     | 78                              |        |           |     |             |      |       |       |        | TD10BP | 03       | T1110A | 01     | 2                | TQ2   | F4                  | 38A                |                    |        |
| 11662         |        | XA231     | 79                              |        | XA229     | 78  |             |      | 16B   | 9     |        | TD10BQ | 04       | TF025A | 01     | 2                | TQ2   | F1                  | 39B                |                    |        |
| 17151         |        | XA231     | 80                              |        | XA111     | 18  |             |      | 16B   | 9     |        | T1110A | 01       | T1110A | 00     | 1                | TQ2   | F4                  | 39A                | PARITY 10*.11*     |        |
| 13173         |        | XA232     | 01                              |        | XA241     | 19  |             |      | 16B   | 9     |        | TF202A | 01       | TF202A | 00     | 1                | TQ2   | A2                  | 02B                | (ITR 02)(MAINT S   |        |
| 02183         |        | XA232     | 02                              |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     | 01A                |                    |        |
| 03984         |        | XA232     | 03                              |        | XA213     | 49  |             |      | 16B   | 9     |        | KIR11B | 35       | TF211A | 01     | 1                | TQ2   | A3                  | 02A                | ITR ADDRESS 01 -   |        |
| 04369         |        | XA232     | 04                              |        | XA218     | 77  |             |      | 16B   | 9     |        | KWML20 | 01       | TF202A | 01     | 1                | TQ2   | A2                  | 04A                |                    |        |
| 04020         |        | XA232     | 05                              |        |           |     |             |      |       |       |        | KIR21B | 34       | TF202A | 01     | 2                | TQ2   | A2                  | 03B                | ITR ADDRESS 02 -   | C13    |
| 13172         |        | XA232     | 06                              |        |           |     |             |      |       |       |        | TF201A | 02       | TF201A | 00     | 1                | TQ2   | A1                  | 05A                | (ITR 01)(MONITOR   |        |
| 04262         |        | XA232     | 07                              |        |           |     |             |      |       |       |        | KMR21S | 03       | TF211A | 01     | 2                | TQ2   | A3                  | 03A                |                    |        |
| 04255         |        | XA232     | 08                              |        | XA332     | 61  |             |      | 16B   | 9     |        | KMR20S | 03       | TF201A | 01     | 1                | TQ2   | A1                  | 06A                |                    |        |
| 13180         |        | XA232     | 09                              |        |           |     |             |      |       |       |        | TF211A | 02       | TF211A | 00     | 1                | TQ2   | A3                  | 04B                | (ITR 01)(MONITOR   |        |
| 03983         |        | XA232     | 10                              |        | XA232     | 03  |             |      | 16B   | 9     |        | KIR11B | 34       | TF201A | 01     | 2                | TQ2   | A1                  | 07A                | ITR ADDRESS 01 -   |        |
| 04017         |        | XA232     | 11                              |        | XA233     | 11  |             |      | 16B   | 9     |        | KIR21B | 31       | TF212A | 01     | 1                | TQ2   | A4                  | 05B                | ITR ADDRESS 02 -   |        |
| 00430         |        | XA232     | 12                              |        |           |     |             |      |       |       |        | +5V    | 01       |        |        |                  | TQ2   |                     |                    |                    |        |
| 04368         |        | XA232     | 13                              |        |           |     |             |      |       |       |        | KWML10 | 02       | TF212A | 01     | 2                | TQ2   | A4                  | 06B                |                    |        |
| 13189         |        | XA232     | 14                              |        | XA241     | 05  |             |      | 16B   | 9     |        | TF222A | 01       | TF222A | 00     | 1                | TQ2   | B2                  | 09A                | (ITR 02)(BASE ME   |        |
| 13161         |        | XA232     | 15                              |        | XA241     | 24  |             |      | 16B   | 9     |        | TF212A | 01       | TF212A | 00     | 1                | TQ2   | A4                  | 07B                | (ITR 02)(MAINT S   |        |
| 02184         |        | XA232     | 16                              |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     | 01B                |                    |        |
| 04271         |        | XA232     | 17                              |        | XA117     | 51  |             |      | 16B   | 9     |        | KMR23S | 01       | TF231A | 01     | 1                | TQ2   | B3                  | 08B                |                    |        |
| 03936         |        | XA232     | 18                              |        | XA125     | 57  |             |      | 16B   | 9     |        | KGNDCA | 09       | TF222A | 01     | 1                | TQ2   | B2                  | 10A                | GROUND - FANOUT    |        |
| 03979         |        | XA232     | 19                              |        | XA233     | 17  |             |      | 16B   | 9     |        | KIR11B | 30       | TF231A | 01     | 2                | TQ2   | B3                  | 09B                | ITR ADDRESS 01 -   |        |
| 04014         |        | XA232     | 20                              |        | XA233     | 23  |             |      | 16B   | 9     |        | KIR21B | 28       | TF222A | 01     | 2                | TQ2   | B2                  | 11A                | ITR ADDRESS 02 -   |        |
| 13196         |        | XA232     | 21                              |        |           |     |             |      |       |       |        | TF231A | 02       | TF231A | 00     | 1                | TQ2   | B3                  | 10B                | (ITR 01)(MONITOR   |        |
| 13188         |        | XA232     | 22                              |        |           |     |             |      |       |       |        | TF221A | 02       | TF221A | 00     | 1                | TQ2   | B1                  | 12A                | (ITR 01)(MONITOR   |        |
| 03935         |        | XA232     | 23                              |        | XA232     | 18  |             |      | 16B   | 9     |        | KGNDCA | 08       | TF232A | 01     | 1                | TQ2   | B4                  | 11B                | GROUND - FANOUT    |        |
| 04268         |        | XA232     | 24                              |        |           |     |             |      |       |       |        | KMR22S | 04       | TF221A | 01     | 1                | TQ2   | B1                  | 13A                |                    |        |
| 04016         |        | XA232     | 25                              |        | XA232     | 11  |             |      | 16B   | 9     |        | KIR21B | 30       | TF232A | 01     | 2                | TQ2   | B4                  | 12B                | ITR ADDRESS 02 -   |        |
| 03976         |        | XA232     | 26                              |        | XA233     | 29  |             |      | 16B   | 9     |        | KIR11B | 27       | TF221A | 01     | 2                | TQ2   | B1                  | 14A                | ITR ADDRESS 01 -   |        |
| 13197         |        | XA232     | 27                              |        | XA241     | 13  |             |      | 16B   | 9     |        | TF232A | 01       | TF232A | 00     | 1                | TQ2   | B4                  | 13B                | (ITR 02)(BASE ME   |        |
| 00431         |        | XA232     | 28                              |        |           |     |             |      |       |       |        | +5V    | 01       |        |        |                  | TQ2   |                     |                    |                    |        |
| 03978         |        | XA232     | 29                              |        | XA232     | 19  |             |      | 16B   | 9     |        | KIR11B | 29       | TF251A | 01     | 1                | TQ2   | C3                  | 14B                | ITR ADDRESS 01 -   |        |
| 13206         |        | XA232     | 30                              |        |           |     |             |      |       |       |        | TF242A | 02       | TF242A | 00     | 1                | TQ2   | C2                  | 15A                | (ITR 02)(BASE ME   |        |
| 04286         |        | XA232     | 31                              |        |           |     |             |      |       |       |        | KMR25S | 04       | TF251A | 01     | 2                | TQ2   | C3                  | 15B                |                    |        |
| 02185         |        | XA232     | 32                              |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     | 20B                |                    |        |
| 13211         |        | XA232     | 33                              |        | XA236     | 07  |             |      | 16B   | 9     |        | TF251A | 01       | TF251A | 00     | 1                | TQ2   | C3                  | 16B                | (ITR 01)(MONITOR   |        |
| 04008         |        | XA232     | 34                              |        | XA233     | 35  |             |      | 16B   | 9     |        | KIR21B | 22       | TF242A | 01     | 1                | TQ2   | C2                  | 16A                | ITR ADDRESS 02 -   |        |
| 04007         |        | XA232     | 35                              |        | XA232     | 34  |             |      | 16B   | 9     |        | KIR21B | 21       | TF252A | 01     | 1                | TQ2   | C4                  | 17B                | ITR ADDRESS 02 -   |        |
| 03933         |        | XA232     | 36                              |        | XA232     | 37  |             |      | 16B   | 9     |        | KGNDCA | 06       | TF242A | 01     | 2                | TQ2   | C2                  | 17A                | GROUND - FANOUT    |        |
| 03934         |        | XA232     | 37                              |        | XA232     | 23  |             |      | 16B   | 9     |        | KGNDCA | 07       | TF252A | 01     | 2                | TQ2   | C4                  | 18B                | GROUND - FANOUT    |        |
| 13203         |        | XA232     | 38                              |        | XA236     | 08  |             |      | 16B   | 9     |        | TF241A | 01       | TF241A | 00     | 1                | TQ2   | C1                  | 18A                | (ITR 01)(MONITOR   |        |
| 13214         |        | XA232     | 39                              |        |           |     |             |      |       |       |        | TF252A | 02       | TF252A | 00     | 1                | TQ2   | C4                  | 19B                | (ITR 02)(ACC ADD   |        |
| 04280         |        | XA232     | 40                              |        |           |     |             |      |       |       |        | KMR24S | 04       | TF241A | 01     | 1                | TQ2   | C1                  | 19A                |                    |        |
| CONNECTOR     |        | XA232     | CONTINUED ON THE NEXT PAGE **** |        |           |     |             |      |       |       |        |        |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA232  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 142

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE   |             |      | SIGNAL | SQU NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|--------|-------------|------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04297   |        | XA232     | 41  |        | XA117     | 34  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 22B                |                    |        |
| 03970   |        | XA232     | 42  |        | XA233     | 42  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 20A                | ITR ADDRESS 01     |        |
| 03968   |        | XA232     | 43  |        | XA233     | 43  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 23B                | ITR ADDRESS 01     |        |
| 02186   |        | XA232     | 44  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 21B                |                    |        |
| 13227   |        | XA232     | 45  |        | XA236     | 20  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 24B                | (ITR 01)(MONITOR   |        |
| 13222   |        | XA232     | 46  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 21A                | (ITR 02)(UNUSED    |        |
| 05338   |        | XA232     | 47  |        | XA232     | 50  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 25B                |                    |        |
| 04005   |        | XA232     | 48  |        | XA232     | 49  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 22A                | ITR ADDRESS 02     |        |
| 04006   |        | XA232     | 49  |        | XA232     | 35  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 26B                | ITR ADDRESS 02     |        |
| 05339   |        | XA232     | 50  |        | XA234     | 48  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 23A                |                    |        |
| 13230   |        | XA232     | 51  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 27B                | (ITR 02)(UNUSED    |        |
| 13219   |        | XA232     | 52  |        | XA236     | 24  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 24A                | (ITR 01)(MONITOR   |        |
| 03967   |        | XA232     | 53  |        | XA232     | 43  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 28B                | ITR ADDRESS 01     |        |
| 03966   |        | XA232     | 54  |        | XA232     | 53  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 25A                | ITR ADDRESS 01     |        |
| 04308   |        | XA232     | 55  |        | XA306     | 73  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 29B                |                    |        |
| 04290   |        | XA232     | 56  |        | XA307     | 70  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 26A                |                    |        |
| 13243   |        | XA232     | 57  |        | XA236     | 31  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 30B                | (ITR 01)(MONITOR   |        |
| 02187   |        | XA232     | 58  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 27A                |                    |        |
| 03996   |        | XA232     | 59  |        | XA232     | 62  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 31B                | ITR ADDRESS 02     |        |
| 13238   |        | XA232     | 60  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 28A                | (ITR 02)(UNUSED    |        |
| 09228   |        | XA232     | 61  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 32B                |                    |        |
| 03997   |        | XA232     | 62  |        | XA233     | 61  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 29A                | ITR ADDRESS 02     |        |
| 13246   |        | XA232     | 63  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 33B                | (ITR02)BSTP SLCT   |        |
| 05337   |        | XA232     | 64  |        | XA232     | 47  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 30A                |                    |        |
| 04321   |        | XA232     | 65  |        | XA117     | 04  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 34B                |                    |        |
| 13235   |        | XA232     | 66  |        | XA236     | 38  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 31A                | (ITR 01)(MONITOR   |        |
| 02188   |        | XA232     | 67  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 40A                |                    |        |
| 03957   |        | XA232     | 68  |        | XA233     | 70  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 32A                | ITR ADDRESS 01     |        |
| 13259   |        | XA232     | 69  |        | XA236     | 46  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 35A                | (ITR 01)(MONITOR   |        |
| 04302   |        | XA232     | 70  |        | XA307     | 59  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 33A                |                    |        |
| 03995   |        | XA232     | 71  |        | XA232     | 59  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 36A                | ITR ADDRESS 02     |        |
| 13254   |        | XA232     | 72  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 34A                | (ITR02)BSTP SLCT   |        |
| 09225   |        | XA232     | 73  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 36B                |                    |        |
| 03956   |        | XA232     | 74  |        | XA232     | 68  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 35B                | ITR ADDRESS 01     |        |
| 13251   |        | XA232     | 75  |        | XA236     | 49  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 37B                | (ITR 01)(MONITOR   |        |
| 09222   |        | XA232     | 76  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 37A                |                    |        |
| 03953   |        | XA232     | 77  |        | XA234     | 77  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 38B                | ITR ADDRESS 01     |        |
| 03993   |        | XA232     | 78  |        | XA233     | 71  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 38A                | ITR ADDRESS 02     |        |
| 04314   |        | XA232     | 79  |        | XA307     | 71  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 39B                |                    |        |
| 13262   |        | XA232     | 80  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 39A                | (ITR02)BSTP SLCT   |        |
| 13079   |        | XA233     | 01  |        | XA248     | 68  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 02B                | (ITR 02)(SPARE)    |        |
| 02189   |        | XA233     | 02  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 01A                |                    |        |
| 04178   |        | XA233     | 03  |        | XA307     | 18  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 02A                |                    |        |
| 04019   |        | XA233     | 04  |        | XA232     | 05  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 04A                | ITR ADDRESS 02     |        |
| 04067   |        | XA233     | 05  |        | XA213     | 34  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 03B                |                    |        |
| 13078   |        | XA233     | 06  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 05A                | (ITR 01)(MONITOR   |        |
| 03981   |        | XA233     | 07  |        | XA233     | 08  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 03A                | ITR ADDRESS 01     |        |
| 03982   |        | XA233     | 08  |        | XA232     | 10  |        |             | 168  | 9      |        |          |      |        |                  |       |                     | 06A                | ITR ADDRESS 01     |        |
| CONNECTOR (XA233) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA233  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 143

| RECORD NUMBER                                   | FROM   |           |     | TO  |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | OHM | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION   | ECO NO |
|---|--------|-----------|-----|-----|-----------|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|----------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |     |                     |                    |                      |        |
| 13086   |        | XA233     | 09  |     |           |     |             |      |       |       | TF091A | 02     | TF091A   | 00   | 1      | TQ2              | A3  |                     | 04B                | ( ITR 01 ) ( MONITOR |        |
| 04170   |        | XA233     | 10  |     | XA117     | 31  |             | 16B  | 9     |       | KMR08S | 01     | TF081A   | 01   | 2      | TQ2              | A1  |                     | 07A                |                      |        |
| 04018   |        | XA233     | 11  |     | XA233     | 04  |             | 16B  | 9     |       | KIR21B | 32     | TF092A   | 01   | 1      | TQ2              | A4  |                     | 05B                | ITR ADDRESS 02 -     |        |
| 00432   |        | XA233     | 12  |     |           |     |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |     |                     |                    |                      |        |
| 04070   |        | XA233     | 13  |     | XA233     | 05  |             | 16B  | 9     |       | KGND0A | 06     | TF092A   | 01   | 2      | TQ2              | A4  |                     | 06B                |                      |        |
| 13095   |        | XA233     | 14  |     | XA248     | 79  |             | 16B  | 9     |       | TF102A | 01     | TF102A   | 03   | 1      | TQ2              | B2  |                     | 09A                | ( ITR 02 ) ( SPARE ) |        |
| 13087   |        | XA233     | 15  |     | XA248     | 60  |             | 16B  | 9     |       | TF092A | 01     | TF092A   | 00   | 1      | TQ2              | A4  |                     | 07B                | ( ITR 02 ) ( SPARE ) |        |
| 02190   |        | XA233     | 16  |     |           |     |             |      |       |       | GND    | 01     |          |      |        | TQ2              |     |                     | 01B                |                      |        |
| 03980   |        | XA233     | 17  |     | XA233     | 07  |             | 16B  | 9     |       | KIR11B | 31     | TF111A   | 01   | 1      | TQ2              | B3  |                     | 08B                | ITR ADDRESS 01 -     |        |
| 17409   |        | XA233     | 18  |     | XA201     | 53  |             | 16B  | 9     |       | WR10LA | 01     | TF102A   | 01   | 1      | TQ2              | B2  |                     | 10A                |                      |        |
| 04190   |        | XA233     | 19  |     | XA306     | 36  |             | 16B  | 9     |       | KMR11S | 01     | TF111A   | 01   | 2      | TQ2              | B3  |                     | 09B                |                      |        |
| 04013   |        | XA233     | 20  |     | XA232     | 20  |             | 16B  | 9     |       | KIR21B | 27     | TF102A   | 01   | 2      | TQ2              | B2  |                     | 11A                | ITR ADDRESS 02 -     |        |
| 13102   |        | XA233     | 21  |     |           |     |             |      |       |       | TF111A | 02     | TF111A   | 00   | 1      | TQ2              | B3  |                     | 10B                | ( ITR 01 ) ( MONITOR |        |
| 13094   |        | XA233     | 22  |     |           |     |             |      |       |       | TF101A | 02     | TF101A   | 00   | 1      | TQ2              | B1  |                     | 12A                | ( ITR 01 ) ( MONITOR |        |
| 04015   |        | XA233     | 23  |     | XA232     | 25  |             | 16B  | 9     |       | KIR21B | 29     | TF112A   | 01   | 1      | TQ2              | B4  |                     | 11B                | ITR ADDRESS 02 -     |        |
| 04183   |        | XA233     | 24  |     | XA307     | 23  |             | 16B  | 9     |       | KMR10S | 01     | TF101A   | 01   | 1      | TQ2              | B1  |                     | 13A                |                      |        |
| 17412   |        | XA233     | 25  |     | XA201     | 55  |             | 16B  | 9     |       | WR20LA | 01     | TF112A   | 01   | 2      | TQ2              | B4  |                     | 12B                |                      |        |
| 03975   |        | XA233     | 26  |     | XA232     | 26  |             | 16B  | 9     |       | KIR11B | 26     | TF101A   | 01   | 2      | TQ2              | B1  |                     | 14A                | ITR ADDRESS 01 -     |        |
| 13103   |        | XA233     | 27  |     | XA248     | 72  |             | 16B  | 9     |       | TF112A | 01     | TF112A   | 00   | 1      | TQ2              | B4  |                     | 13B                | ( ITR 02 ) ( SPARE ) |        |
| 00433   |        | XA233     | 28  |     |           |     |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |     |                     |                    |                      |        |
| 03977   |        | XA233     | 29  |     | XA232     | 29  |             | 16B  | 9     |       | KIR11B | 28     | TF131A   | 01   | 1      | TQ2              | C3  |                     | 14B                | ITR ADDRESS 01 -     |        |
| 13111   |        | XA233     | 30  |     | XA241     | 73  |             | 16B  | 9     |       | TF122A | 01     | TF122A   | 00   | 1      | TQ2              | C2  |                     | 15A                | ( ITR 02 ) ( SPARE ) |        |
| 04203   |        | XA233     | 31  |     | XA117     | 50  |             | 16B  | 9     |       | KMR13S | 01     | TF131A   | 01   | 2      | TQ2              | C3  |                     | 15B                |                      |        |
| 02191   |        | XA233     | 32  |     |           |     |             |      |       |       | GND    | 01     |          |      |        | TQ2              |     |                     | 20B                |                      |        |
| 13118   |        | XA233     | 33  |     |           |     |             |      |       |       | TF131A | 02     | TF131A   | 00   | 1      | TQ2              | C3  |                     | 16B                | ( ITR 01 ) ( MONITOR |        |
| 04010   |        | XA233     | 34  |     | XA234     | 35  |             | 16B  | 9     |       | KIR21B | 24     | TF122A   | 01   | 1      | TQ2              | C2  |                     | 16A                | ITR ADDRESS 02 -     |        |
| 04009   |        | XA233     | 35  |     | XA233     | 34  |             | 16B  | 9     |       | KIR21B | 23     | TF132A   | 01   | 1      | TQ2              | C4  |                     | 17B                | ITR ADDRESS 02 -     |        |
| 17415   |        | XA233     | 36  |     | XA201     | 57  |             | 16B  | 9     |       | WR30LA | 01     | TF122A   | 01   | 2      | TQ2              | C2  |                     | 17A                |                      |        |
| 17407   |        | XA233     | 37  |     | XA201     | 51  |             | 16B  | 9     |       | WR00LA | 03     | TF132A   | 01   | 2      | TQ2              | C4  |                     | 18B                |                      |        |
| 13110   |        | XA233     | 38  |     |           |     |             |      |       |       | TF121A | 02     | TF121A   | 00   | 1      | TQ2              | C1  |                     | 18A                | ( ITR 01 ) ( MONITOR |        |
| 13119   |        | XA233     | 39  |     | XA241     | 77  |             | 16B  | 9     |       | TF132A | 01     | TF132A   | 00   | 1      | TQ2              | C4  |                     | 19B                | ( ITR 02 ) ( SPARE ) |        |
| 04199   |        | XA233     | 40  |     |           |     |             |      |       |       | KMR12S | 03     | TF121A   | 01   | 1      | TQ2              | C1  |                     | 19A                |                      |        |
| 04220   |        | XA233     | 41  |     |           |     |             |      |       |       | KMR15S | 04     | TF151A   | 01   | 1      | TQ2              | D3  |                     | 22B                |                      |        |
| 03971   |        | XA233     | 42  |     | XA234     | 43  |             | 16B  | 9     |       | KIR11B | 22     | TF121A   | 01   | 2      | TQ2              | C1  |                     | 20A                | ITR ADDRESS 01 -     |        |
| 03969   |        | XA233     | 43  |     | XA232     | 42  |             | 16B  | 9     |       | KIR11B | 20     | TF151A   | 01   | 2      | TQ2              | D3  |                     | 23B                | ITR ADDRESS 01 -     |        |
| 02192   |        | XA233     | 44  |     |           |     |             |      |       |       | GND    | 01     |          |      |        | TQ2              |     |                     | 21B                |                      |        |
| 13134   |        | XA233     | 45  |     |           |     |             |      |       |       | TF151A | 02     | TF151A   | 00   | 1      | TQ2              | D3  |                     | 24B                | ( ITR 01 ) ( MONITOR |        |
| 13127   |        | XA233     | 46  |     | XA241     | 60  |             | 16B  | 9     |       | TF142A | 01     | TF142A   | 00   | 1      | TQ2              | D2  |                     | 21A                | ( ITR 02 ) ( SPARE ) |        |
| 16515   |        | XA233     | 47  |     |           |     |             |      |       |       | T55130 | 02     | TMTDWA   | 01   | 1      | TQ2              | D4  |                     | 25B                |                      |        |
| 04004   |        | XA233     | 48  |     | XA232     | 48  |             | 16B  | 9     |       | KIR21B | 18     | TF142A   | 01   | 1      | TQ2              | D2  |                     | 22A                | ITR ADDRESS 02 -     |        |
| 14393   |        | XA233     | 49  |     | XA251     | 07  |             | 16B  | 9     |       | TMT0BQ | 02     | TMTDWA   | 01   | 2      | TQ2              | D4  |                     | 26B                |                      |        |
| 03932   |        | XA233     | 50  |     | XA233     | 13  |             | 16B  | 9     |       | KGND0A | 05     | TF142A   | 01   | 2      | TQ2              | D2  |                     | 23A                |                      |        |
| 14362   |        | XA233     | 51  |     | XA115     | 11  |             | 16B  | 9     |       | TMTDWA | 01     | TMTDWA   | 00   | 1      | TQ2              | D4  |                     | 27B                |                      |        |
| 13126   |        | XA233     | 52  |     |           |     |             |      |       |       | TF141A | 02     | TF141A   | 00   | 1      | TQ2              | D1  |                     | 24A                | ( ITR 01 ) ( MONITOR |        |
| 03965   |        | XA233     | 53  |     | XA232     | 54  |             | 16B  | 9     |       | KIR11B | 16     | TF171A   | 01   | 1      | TQ2              | E3  |                     | 28B                | ITR ADDRESS 01 -     |        |
| 03964   |        | XA233     | 54  |     | XA233     | 53  |             | 16B  | 9     |       | KIR11B | 15     | TF141A   | 01   | 1      | TQ2              | D1  |                     | 25A                | ITR ADDRESS 01 -     |        |
| 04231   |        | XA233     | 55  |     | XA332     | 68  |             | 16B  | 9     |       | KMR17S | 03     | TF171A   | 01   | 2      | TQ2              | E3  |                     | 29B                |                      |        |
| 04211   |        | XA233     | 56  |     | XA306     | 50  |             | 16B  | 9     |       | KMR14S | 02     | TF141A   | 01   | 2      | TQ2              | D1  |                     | 26A                |                      |        |
| 13148   |        | XA233     | 57  |     |           |     |             |      |       |       | TF171A | 02     | TF171A   | 00   | 1      | TQ2              | E3  |                     | 30B                | ( ITR 01 ) ( MONITOR |        |
| 02193   |        | XA233     | 58  |     |           |     |             |      |       |       | GND    | 01     |          |      |        | TQ2              |     |                     | 27A                |                      |        |
| CONNECTOR XA233 CONTINUED ON THE NEXT PAGE **** |        |           |     |     |           |     |             |      |       |       |        |        |          |      |        |                  |     |                     |                    |                      |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA233  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 144

| RECORD NUMBER                                   | FROM   |           |     | TO | WIRE   |           |     | SPECIES | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|--------|-----------|-----|---------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |    | PREFIX | CONNECTOR | PIN |         |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 04376   |        | XA233     | 59  |    |        |           |     |         | KWMM20 | 02     | TF172A   | 00   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 13141   |        | XA233     | 60  |    | XA241  | 46        |     |         | TF162A | 01     | TF162A   | 00   | 1      | TQ2              | E2    |                     | 28A                | (ITR 02)(MAINT SW  |        |
| 03998   |        | XA233     | 61  |    | XA233  | 62        |     |         | KIR21B | 12     | TF172A   | 01   | 2      | TQ2              | E4    |                     | 32B                | ITR ADDRESS 02     |        |
| 03999   |        | XA233     | 62  |    | XA234  | 59        |     |         | KIR21B | 13     | TF162A   | 01   | 1      | TQ2              | E2    |                     | 29A                | ITR ADDRESS 02     |        |
| 13149   |        | XA233     | 63  |    | XA241  | 56        |     |         | TF172A | 01     | TF172A   | 00   | 1      | TQ2              | E4    |                     | 33B                | (ITR 02)(MAINT S   |        |
| 04377   |        | XA233     | 64  |    | XA213  | 18        |     |         | KWMM40 | 01     | TF162A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 04247   |        | XA233     | 65  |    | XA332  | 53        |     |         | KMRI9S | 03     | TF191A   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 13140   |        | XA233     | 66  |    |        |           |     |         | TF161A | 02     | TF161A   | 00   | 1      | TQ2              | E1    |                     | 31A                | (ITR 01)(MONITOR   |        |
| 02194   |        | XA233     | 67  |    |        |           |     |         | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 04225   |        | XA233     | 68  |    |        |           |     |         | KMR16S | 03     | TF161A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 13164   |        | XA233     | 69  |    |        |           |     |         | TF191A | 02     | TF191A   | 00   | 1      | TQ2              | F3    |                     | 35A                | (ITR 01)(MONITOR   |        |
| 03958   |        | XA233     | 70  |    | XA233  | 74        |     |         | KIR11B | 09     | TF161A   | 01   | 2      | TQ2              | E1    |                     | 33A                | ITR ADDRESS 01     |        |
| 03994   |        | XA233     | 71  |    | XA232  | 71        |     |         | KIR21B | 08     | TF182A   | 01   | 1      | TQ2              | F2    |                     | 36A                | ITR ADDRESS 02     |        |
| 13157   |        | XA233     | 72  |    | XA241  | 31        |     |         | TF182A | 01     | TF182A   | 00   | 1      | TQ2              | F2    |                     | 34A                | (ITR 02)(MAINT S   |        |
| 04373   |        | XA233     | 73  |    | XA213  | 43        |     |         | KWMM10 | 01     | TF182A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 03959   |        | XA233     | 74  |    | XA234  | 74        |     |         | KIR11B | 10     | TF191A   | 01   | 2      | TQ2              | F3    |                     | 35B                | ITR ADDRESS 01     |        |
| 13156   |        | XA233     | 75  |    |        |           |     |         | TF181A | 02     | TF181A   | 00   | 1      | TQ2              | F1    |                     | 37B                | (ITR 01)(MONITOR   |        |
| 04372   |        | XA233     | 76  |    |        |           |     |         | KWML40 | 02     | TF192A   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 03955   |        | XA233     | 77  |    | XA232  | 74        |     |         | KIR11B | 06     | TF181A   | 01   | 1      | TQ2              | F1    |                     | 38B                | ITR ADDRESS 01     |        |
| 03992   |        | XA233     | 78  |    | XA232  | 78        |     |         | KIR21B | 06     | TF192A   | 01   | 2      | TQ2              | F4    |                     | 38A                | ITR ADDRESS 02     |        |
| 04239   |        | XA233     | 79  |    | XA332  | 62        |     |         | KMR18S | 03     | TF181A   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 13165   |        | XA233     | 80  |    | XA241  | 37        |     |         | TF192A | 01     | TF192A   | 00   | 1      | TQ2              | F4    |                     | 39A                | (ITR 02)(MAINT S   |        |
| 11366   |        | XA234     | 01  |    | XA227  | 08        |     |         | TD016A | 01     | TD016A   | 00   | 1      | TQ2              | A2    |                     | 02B                | TE TO TD BYTE MO   |        |
| 02195   |        | XA234     | 02  |    |        |           |     |         | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 16847   |        | XA234     | 03  |    | XA234  | 23        |     |         | TWDXB0 | 01     | TD253A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 09310   |        | XA234     | 04  |    |        |           |     |         | TB1XA0 | 10     | TD016A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 12821   |        | XA234     | 05  |    | XA235  | 03        |     |         | TE25C0 | 01     | TD016A   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 11887   |        | XA234     | 06  |    |        |           |     |         | TD166A | 02     | TD166A   | 00   | 1      | TQ2              | A1    |                     | 05A                | INPUT BYTE 3 TEO   |        |
| 12817   |        | XA234     | 07  |    | XA238  | 07        |     |         | TE25B0 | 01     | TD253A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 09343   |        | XA234     | 08  |    | XA235  | 07        |     |         | TB3XA0 | 07     | TD166A   | 00   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 12199   |        | XA234     | 09  |    | XA215  | 06        |     |         | TD253A | 01     | TD253A   | 00   | 1      | TQ2              | A3    |                     | 04B                | BYTE 4 XFER BIT    |        |
| 12807   |        | XA234     | 10  |    | XA235  | 10        |     |         | TE24C0 | 02     | TD166A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 12836   |        | XA234     | 11  |    | XA235  | 13        |     |         | TE26C0 | 01     | TD106A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00434   |        | XA234     | 12  |    |        |           |     |         | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 09327   |        | XA234     | 13  |    | XA145  | 50        |     |         | TB2XA0 | 08     | TD106A   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 11994   |        | XA234     | 14  |    |        |           |     |         | TD196A | 02     | TD196A   | 00   | 1      | TQ2              | B2    |                     | 09A                | INPUT BYTE 3 TEO   |        |
| 11685   |        | XA234     | 15  |    | XA228  | 78        |     |         | TD106A | 01     | TD106A   | 00   | 1      | TQ2              | A4    |                     | 07B                | INPUT BYTE 2 TEO   |        |
| 02196   |        | XA234     | 16  |    |        |           |     |         | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 09308   |        | XA234     | 17  |    | XA235  | 11        |     |         | TB1XA0 | 08     | TD046A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 12852   |        | XA234     | 18  |    | XA235  | 18        |     |         | TE27C0 | 02     | TD196A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 12866   |        | XA234     | 19  |    | XA235  | 23        |     |         | TE28C0 | 01     | TD046A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 09342   |        | XA234     | 20  |    | XA234  | 08        |     |         | TB3XA0 | 06     | TD196A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 11484   |        | XA234     | 21  |    | XA228  | 38        |     |         | TD046A | 01     | TD046A   | 00   | 1      | TQ2              | B3    |                     | 10B                | TE TO TD BYTE MO   |        |
| 12236   |        | XA234     | 22  |    | XA216  | 18        |     |         | TD263A | 01     | TD263A   | 00   | 1      | TQ2              | B1    |                     | 12A                | BYTE 4 XFER BIT    |        |
| 16848   |        | XA234     | 23  |    | XA234  | 26        |     |         | TWDXB0 | 02     | TD283A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 12832   |        | XA234     | 24  |    | XA238  | 25        |     |         | TE26B0 | 01     | TD263A   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 12862   |        | XA234     | 25  |    | XA238  | 37        |     |         | TE28B0 | 01     | TD283A   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 16849   |        | XA234     | 26  |    | XA237  | 17        |     |         | TWDXB0 | 03     | TD263A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| CONNECTOR XA234 CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |         |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA234  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 145

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE        |      |       |       | SFC INST MISC | SIGNAL     | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|-------------|------|-------|-------|---------------|------------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |               |            |        |          |      |        |                  |       |                     |                    |                    |        |
| 12310         |        | XA234     | 27                              |        | XA216     | 34  |             | 16B  | 9     |       |               | TD283A +5V | 01     | TD283A   | 00   | 1      | TQ2              | B4    |                     | 13B                | BYTE 4 XFER BIT    |        |
| 00435         |        | XA234     | 28                              |        |           |     |             |      |       |       |               |            |        |          |      |        |                  |       |                     |                    |                    |        |
| 04126         |        | XA234     | 29                              |        | XA108     | 74  |             | 16B  | 9     |       |               | KMR01S     | 01     | TF011A   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    | B05    |
| 12952         |        | XA234     | 30                              |        |           |     |             |      |       |       |               | TF002A     | 02     | TF002A   | 00   | 1      | TQ2              | C2    |                     | 15A                | (ITR 02)(SPARE)    |        |
| 03974         |        | XA234     | 31                              |        | XA233     | 26  |             | 16B  | 9     |       |               | KIR11B     | 25     | TF011A   | 01   | 2      | TQ2              | C3    |                     | 15B                | ITR ADDRESS 01     |        |
| 02197         |        | XA234     | 32                              |        |           |     |             |      |       |       |               | GND        | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 12966         |        | XA234     | 33                              |        |           |     |             |      |       |       |               | TF011A     | 02     | TF011A   | 00   | 1      | TQ2              | C3    |                     | 16B                | (ITR 01)(MONITOR   |        |
| 04012         |        | XA234     | 34                              |        | XA233     | 20  |             | 16B  | 9     |       |               | KIR21B     | 26     | TF002A   | 01   | 1      | TQ2              | C2    |                     | 16A                | ITR ADDRESS 02     |        |
| 04011         |        | XA234     | 35                              |        | XA234     | 34  |             | 16B  | 9     |       |               | KIR21B     | 25     | TF012A   | 01   | 1      | TQ2              | C4    |                     | 17B                | ITR ADDRESS 02     |        |
| 05342         |        | XA234     | 36                              |        | XA238     | 22  |             | 16B  | 9     |       |               | SPI017     | 11     | TF002A   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 05341         |        | XA234     | 37                              |        | XA234     | 36  |             | 16B  | 9     |       |               | SPI017     | 10     | TF012A   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 12949         |        | XA234     | 38                              |        | XA243     | 13  |             | 16B  | 9     |       |               | TF001A     | 01     | TF001A   | 00   | 1      | TQ2              | C1    |                     | 18A                | (ITR 01)(MONITOR   |        |
| 12967         |        | XA234     | 39                              |        | XA243     | 20  |             | 16B  | 9     |       |               | TF012A     | 01     | TF012A   | 00   | 1      | TQ2              | C4    |                     | 19B                | (ITR 02)(SPARE)    |        |
| 03973         |        | XA234     | 40                              |        | XA234     | 31  |             | 16B  | 9     |       |               | KIR11B     | 24     | TF001A   | 01   | 1      | TQ2              | C1    |                     | 19A                | ITR ADDRESS 01     |        |
| 04138         |        | XA234     | 41                              |        | XA307     | 10  |             | 16B  | 9     |       |               | KMR03S     | 01     | TF031A   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 04123         |        | XA234     | 42                              |        |           |     |             |      |       |       |               | KMR00S     | 03     | TF001A   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 03972         |        | XA234     | 43                              |        | XA234     | 40  |             | 16B  | 9     |       |               | KIR11B     | 23     | TF031A   | 01   | 2      | TQ2              | D3    |                     | 23B                | ITR ADDRESS 01     |        |
| 02198         |        | XA234     | 44                              |        |           |     |             |      |       |       |               | GND        | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 12998         |        | XA234     | 45                              |        |           |     |             |      |       |       |               | TF031A     | 02     | TF031A   | 00   | 1      | TQ2              | D3    |                     | 24B                | (ITR 01)(MONITOR   |        |
| 12983         |        | XA234     | 46                              |        | XA243     | 36  |             | 16B  | 9     |       |               | TF022A     | 01     | TF022A   | 00   | 1      | TQ2              | D2    |                     | 21A                | (ITR 02)(SPARE)    |        |
| 04003         |        | XA234     | 47                              |        | XA233     | 48  |             | 16B  | 9     |       |               | KIR21B     | 17     | TF032A   | 01   | 1      | TQ2              | D4    |                     | 25B                | ITR ADDRESS 02     |        |
| 05340         |        | XA234     | 48                              |        | XA234     | 37  |             | 16B  | 9     |       |               | SPI017     | 09     | TF022A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 03931         |        | XA234     | 49                              |        | XA233     | 50  |             | 16B  | 9     |       |               | KGNDDA     | 04     | TF032A   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 04002         |        | XA234     | 50                              |        | XA234     | 47  |             | 16B  | 9     |       |               | KIR21B     | 16     | TF022A   | 01   | 2      | TQ2              | D2    |                     | 23A                | ITR ADDRESS 02     |        |
| 12999         |        | XA234     | 51                              |        | XA243     | 46  |             | 16B  | 9     |       |               | TF032A     | 01     | TF032A   | 00   | 1      | TQ2              | D4    |                     | 27B                | (ITR 02)(SPARE)    |        |
| 12982         |        | XA234     | 52                              |        |           |     |             |      |       |       |               | TF021A     | 02     | TF021A   | 00   | 1      | TQ2              | D1    |                     | 24A                | (ITR 01)(MONITOR   |        |
| 03963         |        | XA234     | 53                              |        | XA233     | 54  |             | 16B  | 9     |       |               | KIR11B     | 14     | TF051A   | 01   | 1      | TQ2              | E3    |                     | 28B                | ITR ADDRESS 01     |        |
| 03962         |        | XA234     | 54                              |        | XA234     | 53  |             | 16B  | 9     |       |               | KIR11B     | 13     | TF021A   | 01   | 1      | TQ2              | D1    |                     | 25A                | ITR ADDRESS 01     |        |
| 04149         |        | XA234     | 55                              |        | XA117     | 73  |             | 16B  | 9     |       |               | KMR05S     | 01     | TF051A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 04132         |        | XA234     | 56                              |        | XA117     | 71  |             | 16B  | 9     |       |               | KMR02S     | 01     | TF021A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 13030         |        | XA234     | 57                              |        |           |     |             |      |       |       |               | TF051A     | 02     | TF051A   | 00   | 1      | TQ2              | E3    |                     | 30B                | (ITR 01)(MONITOR   |        |
| 02199         |        | XA234     | 58                              |        |           |     |             |      |       |       |               | GND        | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 04000         |        | XA234     | 59                              |        | XA234     | 62  |             | 16B  | 9     |       |               | KIR21B     | 14     | TF052A   | 01   | 1      | TQ2              | E4    |                     | 31B                | ITR ADDRESS 02     |        |
| 13015         |        | XA234     | 60                              |        | XA243     | 64  |             | 16B  | 9     |       |               | TF042A     | 01     | TF042A   | 00   | 1      | TQ2              | E2    |                     | 28A                | (ITR 02)(SPARE)    |        |
| 03930         |        | XA234     | 61                              |        | XA234     | 49  |             | 16B  | 9     |       |               | KGNDDA     | 03     | TF052A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 04001         |        | XA234     | 62                              |        | XA234     | 50  |             | 16B  | 9     |       |               | KIR21B     | 15     | TF042A   | 01   | 1      | TQ2              | E2    |                     | 29A                | ITR ADDRESS 02     |        |
| 13031         |        | XA234     | 63                              |        | XA243     | 73  |             | 16B  | 9     |       |               | TF052A     | 01     | TF052A   | 00   | 1      | TQ2              | E4    |                     | 33B                | (ITR 02)(SPARE)    |        |
| 03929         |        | XA234     | 64                              |        | XA234     | 61  |             | 16B  | 9     |       |               | KGNDDA     | 02     | TF042A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 04166         |        | XA234     | 65                              |        |           |     |             |      |       |       |               | KMR07S     | 03     | TF071A   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 13014         |        | XA234     | 66                              |        |           |     |             |      |       |       |               | TF041A     | 02     | TF041A   | 00   | 1      | TQ2              | E1    |                     | 31A                | (ITR 01)(MONITOR   |        |
| 02200         |        | XA234     | 67                              |        |           |     |             |      |       |       |               | GND        | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 04144         |        | XA234     | 68                              |        | XA307     | 05  |             | 16B  | 9     |       |               | KMR04S     | 02     | TF041A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 13062         |        | XA234     | 69                              |        |           |     |             |      |       |       |               | TF071A     | 02     | TF071A   | 00   | 1      | TQ2              | F3    |                     | 35A                | (ITR 01)(MONITOR   |        |
| 03961         |        | XA234     | 70                              |        | XA234     | 54  |             | 16B  | 9     |       |               | KIR11B     | 12     | TF041A   | 01   | 2      | TQ2              | E1    |                     | 33A                | ITR ADDRESS 01     |        |
| 03928         |        | XA234     | 71                              |        | XA232     | 36  |             | 16B  | 9     |       |               | KGNDCA     | 01     | TF062A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 13047         |        | XA234     | 72                              |        | XA247     | 46  |             | 16B  | 9     |       |               | TF062A     | 01     | TF062A   | 00   | 1      | TQ2              | F2    |                     | 34A                | (ITR 02)UPPR CPU   |        |
| 03991         |        | XA234     | 73                              |        | XA233     | 78  |             | 16B  | 9     |       |               | KIR21B     | 05     | TF062A   | 01   | 2      | TQ2              | F2    |                     | 36B                | ITR ADDRESS 02     |        |
| 03960         |        | XA234     | 74                              |        | XA234     | 70  |             | 16B  | 9     |       |               | KIR11B     | 11     | TF071A   | 01   | 2      | TQ2              | F3    |                     | 35B                | ITR ADDRESS 01     |        |
| 13046         |        | XA234     | 75                              |        |           |     |             |      |       |       |               | TF061A     | 02     | TF061A   | 00   | 1      | TQ2              | F1    |                     | 37B                | (ITR 01)(MONITOR   |        |
| 03990         |        | XA234     | 76                              |        | XA234     | 73  |             | 16B  | 9     |       |               | KIR21B     | 04     | TF072A   | 01   | 1      | TQ2              | F4    |                     | 37A                | ITR ADDRESS 02     |        |
| CONNECTOR     |        | XA234     | CONTINUED ON THE NEXT PAGE **** |        |           |     |             |      |       |       |               |            |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA234  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 146

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE |    |    |     | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |                 |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|------|----|----|-----|---------------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|-----------------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | DI   | DI | DI | DI  |               |        |        |          |        |        |                  |       |                     |                    |                    |                  | DI              |
| 03954         |        | XA234     | 77                              |        | XA233     | 77  |      |    |    | 168 | 9             |        | KIR11B | 05       | TF061A | 01     | 1                | TQ2   | F1                  |                    | 38B                | ITR ADDRESS 01   |                 |
| 04066         |        | XA234     | 78                              |        | XA234     | 64  |      |    |    | 168 | 9             |        | KGNDDA | 01       | TF072A | 01     | 2                | TQ2   | F4                  |                    | 38A                |                  |                 |
| 04157         |        | XA234     | 79                              |        | XA209     | 49  |      |    |    | 168 | 9             |        | KMR06S | 01       | TF061A | 01     | 2                | TQ2   | F1                  |                    | 39B                |                  |                 |
| 13063         |        | XA234     | 80                              |        | XA247     | 36  |      |    |    | 168 | 9             |        | TF072A | 01       | TF072A | 00     | 1                | TQ2   | F4                  |                    | 39A                |                  | (ITR 02)(SPARE) |
| 12166         |        | XA235     | 01                              |        | XA216     | 07  |      |    |    | 168 | 9             |        | TD246A | 01       | TD246A | 00     | 1                | TQ2   | A2                  |                    | 02B                | INPUT BYTE 4 TEO |                 |
| 02201         |        | XA235     | 02                              |        |           |     |      |    |    |     |               |        | GND    | 01       |        |        |                  | TQ2   |                     |                    | 01A                |                  |                 |
| 12822         |        | XA235     | 03                              |        | XA237     | 07  |      |    |    | 168 | 9             |        | TE25C0 | 02       | TD176A | 01     | 1                | TQ2   | A3                  |                    | 02A                |                  |                 |
| 12806         |        | XA235     | 04                              |        | XA234     | 10  |      |    |    | 168 | 9             |        | TE24C0 | 01       | TD246A | 01     | 1                | TQ2   | A2                  |                    | 04A                |                  |                 |
| 09356         |        | XA235     | 05                              |        | XA235     | 17  |      |    |    | 168 | 9             |        | TB4XA0 | 04       | TD246A | 01     | 2                | TQ2   | A2                  |                    | 03B                |                  |                 |
| 11623         |        | XA235     | 06                              |        | XA228     | 66  |      |    |    | 168 | 9             |        | TD086A | 01       | TD086A | 00     | 1                | TQ2   | A1                  |                    | 05A                | INPUT BYTE 2 TEO |                 |
| 09344         |        | XA235     | 07                              |        | XA146     | 59  |      |    |    | 168 | 9             |        | TB3XA0 | 08       | TD176A | 01     | 2                | TQ2   | A3                  |                    | 03A                |                  |                 |
| 09325         |        | XA235     | 08                              |        | XA235     | 20  |      |    |    | 168 | 9             |        | TB2XA0 | 06       | TD086A | 01     | 1                | TQ2   | A1                  |                    | 06A                |                  |                 |
| 11926         |        | XA235     | 09                              |        |           |     |      |    |    |     |               |        | TD176A | 02       | TD176A | 00     | 1                | TQ2   | A3                  |                    | 04B                | INPUT BYTE 3 TEO |                 |
| 12808         |        | XA235     | 10                              |        | XA237     | 10  |      |    |    | 168 | 9             |        | TE24C0 | 03       | TD086A | 01     | 2                | TQ2   | A1                  |                    | 07A                |                  |                 |
| 09309         |        | XA235     | 11                              |        | XA234     | 04  |      |    |    | 168 | 9             |        | TB1XA0 | 09       | TD026A | 01     | 1                | TQ2   | A4                  |                    | 05B                |                  |                 |
| 00436         |        | XA235     | 12                              |        |           |     |      |    |    |     |               |        | +5V    | 01       |        |        |                  | TQ2   |                     |                    |                    |                  |                 |
| 12837         |        | XA235     | 13                              |        | XA235     | 26  |      |    |    | 168 | 9             |        | TE26C0 | 02       | TD026A | 01     | 2                | TQ2   | A4                  |                    | 06B                | INPUT BYTE 2 TEO |                 |
| 11717         |        | XA235     | 14                              |        |           |     |      |    |    |     |               |        | TD116A | 02       | TD116A | 00     | 1                | TQ2   | B2                  |                    | 09A                |                  |                 |
| 11406         |        | XA235     | 15                              |        | XA228     | 22  |      |    |    | 168 | 9             |        | TD026A | 01       | TD026A | 00     | 1                | TQ2   | A4                  |                    | 07B                | TE TO TD BYTE MO |                 |
| 02202         |        | XA235     | 16                              |        |           |     |      |    |    |     |               |        | GND    | 01       |        |        |                  | TQ2   |                     |                    | 01B                |                  |                 |
| 09357         |        | XA235     | 17                              |        | XA235     | 24  |      |    |    | 168 | 9             |        | TB4XA0 | 05       | TD276A | 01     | 1                | TQ2   | B3                  |                    | 08B                |                  |                 |
| 12853         |        | XA235     | 18                              |        | XA237     | 18  |      |    |    | 168 | 9             |        | TE27C0 | 03       | TD116A | 01     | 1                | TQ2   | B2                  |                    | 10A                |                  |                 |
| 12851         |        | XA235     | 19                              |        | XA234     | 18  |      |    |    | 168 | 9             |        | TE27C0 | 01       | TD276A | 01     | 2                | TQ2   | B3                  |                    | 09B                |                  |                 |
| 09326         |        | XA235     | 20                              |        | XA234     | 13  |      |    |    | 168 | 9             |        | TB2XA0 | 07       | TD116A | 01     | 2                | TQ2   | B2                  |                    | 11A                |                  |                 |
| 12279         |        | XA235     | 21                              |        | XA215     | 19  |      |    |    | 168 | 9             |        | TD276A | 01       | TD276A | 00     | 1                | TQ2   | B3                  |                    | 10B                | INPUT BYTE 4 TEO |                 |
| 12240         |        | XA235     | 22                              |        | XA216     | 14  |      |    |    | 168 | 9             |        | TD266A | 01       | TD266A | 00     | 1                | TQ2   | B1                  |                    | 12A                | INPUT BYTE 4 TEO |                 |
| 12867         |        | XA235     | 23                              |        | XA237     | 25  |      |    |    | 168 | 9             |        | TE28C0 | 02       | TD206A | 01     | 1                | TQ2   | B4                  |                    | 11B                |                  |                 |
| 09358         |        | XA235     | 24                              |        | XA235     | 29  |      |    |    | 168 | 9             |        | TB4XA0 | 06       | TD266A | 01     | 1                | TQ2   | B1                  |                    | 13A                |                  |                 |
| 09341         |        | XA235     | 25                              |        | XA234     | 20  |      |    |    | 168 | 9             |        | TB3XA0 | 05       | TD206A | 01     | 2                | TQ2   | B4                  |                    | 12B                |                  |                 |
| 12838         |        | XA235     | 26                              |        | XA237     | 26  |      |    |    | 168 | 9             |        | TE26C0 | 03       | TD266A | 01     | 2                | TQ2   | B1                  |                    | 14A                |                  |                 |
| 12025         |        | XA235     | 27                              |        |           |     |      |    |    |     |               |        | TD206A | 02       | TD206A | 00     | 1                | TQ2   | B4                  |                    | 13B                | INPUT BYTE 3 TEO |                 |
| 00437         |        | XA235     | 28                              |        |           |     |      |    |    |     |               |        | +5V    | 01       |        |        |                  | TQ2   |                     |                    |                    |                  |                 |
| 09359         |        | XA235     | 29                              |        | XA237     | 40  |      |    |    | 168 | 9             |        | TB4XA0 | 07       | TD296A | 01     | 1                | TQ2   | C3                  |                    | 14B                |                  |                 |
| 12061         |        | XA235     | 30                              |        |           |     |      |    |    |     |               |        | TD216A | 02       | TD216A | 00     | 1                | TQ2   | C2                  |                    | 15A                | INPUT BYTE 3 TEO |                 |
| 12881         |        | XA235     | 31                              |        | XA235     | 34  |      |    |    | 168 | 9             |        | TE29C0 | 02       | TD296A | 01     | 2                | TQ2   | C3                  |                    | 15B                |                  |                 |
| 02203         |        | XA235     | 32                              |        |           |     |      |    |    |     |               |        | GND    | 01       |        |        |                  | TQ2   |                     |                    | 20B                |                  |                 |
| 12349         |        | XA235     | 33                              |        | XA215     | 34  |      |    |    | 168 | 9             |        | TD296A | 01       | TD296A | 00     | 1                | TQ2   | C3                  |                    | 16B                | INPUT BYTE 4 TEO |                 |
| 12882         |        | XA235     | 34                              |        | XA237     | 34  |      |    |    | 168 | 9             |        | TE29C0 | 03       | TD216A | 01     | 1                | TQ2   | C2                  |                    | 16A                |                  |                 |
| 12898         |        | XA235     | 35                              |        |           |     |      |    |    |     |               |        | TE30C0 | 05       | TD146A | 01     | 1                | TQ2   | C4                  |                    | 17B                |                  |                 |
| 09340         |        | XA235     | 36                              |        | XA235     | 25  |      |    |    | 168 | 9             |        | TB3XA0 | 04       | TD216A | 01     | 2                | TQ2   | C2                  |                    | 17A                |                  |                 |
| 09321         |        | XA235     | 37                              |        | XA237     | 36  |      |    |    | 168 | 9             |        | TB2XA0 | 02       | TD146A | 01     | 2                | TQ2   | C4                  |                    | 18B                |                  |                 |
| 11520         |        | XA235     | 38                              |        | XA227     | 31  |      |    |    | 168 | 9             |        | TD056A | 01       | TD056A | 00     | 1                | TQ2   | C1                  |                    | 18A                | TE TO TD BYTE MO |                 |
| 11818         |        | XA235     | 39                              |        |           |     |      |    |    |     |               |        | TD146A | 02       | TD146A | 00     | 1                | TQ2   | C4                  |                    | 19B                | INPUT BYTE 2 TEO |                 |
| 09307         |        | XA235     | 40                              |        | XA234     | 17  |      |    |    | 168 | 9             |        | TB1XA0 | 07       | TD056A | 01     | 1                | TQ2   | C1                  |                    | 19A                |                  |                 |
| 16608         |        | XA235     | 41                              |        | XA135     | 66  |      |    |    | 168 | 9             |        | TE29C0 | 08       | TF228A | 01     | 1                | TQ2   | D3                  |                    | 22B                |                  |                 |
| 12880         |        | XA235     | 42                              |        | XA235     | 31  |      |    |    | 168 | 9             |        | TE29C0 | 01       | TD056A | 01     | 2                | TQ2   | C1                  |                    | 20A                |                  |                 |
| 12892         |        | XA235     | 43                              |        | XA333     | 08  |      |    |    | 168 | 9             |        | TE30BQ | 03       | TF228A | 01     | 2                | TQ2   | D3                  |                    | 23B                |                  |                 |
| 02204         |        | XA235     | 44                              |        |           |     |      |    |    |     |               |        | GND    | 01       |        |        |                  | TQ2   |                     |                    | 21B                |                  |                 |
| CONNECTOR     |        | XA235     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |    |    |     |               |        |        |          |        |        |                  |       |                     |                    |                    |                  |                 |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA235  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 147

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE        |      |       | SPEC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO           |       |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|-------------|------|-------|----------------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|------------------|-------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR |                |        |        |          |             |                  |       |                     |                    |                    |                  | IDENT |
| 13193         |        | XA235     | 45                              |        | XA241     | 04  |             |      | 16B   | 9              |        | TF228A | 01       | TF228A      | 00               | 1     | TQ2                 | D3                 | 24B                | TE30 TO TE22 SHI |       |
| 13185         |        | XA235     | 46                              |        | XA241     | 22  |             |      | 16B   | 9              |        | TF218A | 01       | TF218A      | 00               | 1     | TQ2                 | D2                 | 21A                | TE29 TO TE21 SHI |       |
| 16607         |        | XA235     | 47                              |        | XA235     | 41  |             |      | 16B   | 9              |        | TTESCO | 07       | TF238A      | 01               | 1     | TQ2                 | D4                 | 25B                |                  |       |
| 12878         |        | XA235     | 48                              |        | XA333     | 10  |             |      | 16B   | 9              |        | TE29BQ | 03       | TF218A      | 01               | 1     | TQ2                 | D2                 | 22A                |                  |       |
| 12906         |        | XA235     | 49                              |        | XA333     | 05  |             |      | 16B   | 9              |        | TE31BQ | 03       | TF238A      | 01               | 2     | TQ2                 | D4                 | 26B                |                  |       |
| 16606         |        | XA235     | 50                              |        | XA235     | 47  |             |      | 16B   | 9              |        | TTESCO | 06       | TF218A      | 01               | 2     | TQ2                 | D2                 | 23A                |                  |       |
| 13201         |        | XA235     | 51                              |        | XA241     | 10  |             |      | 16B   | 9              |        | TF238A | 01       | TF238A      | 00               | 1     | TQ2                 | D4                 | 27B                | TE31 TO TE23 SHI |       |
| 13177         |        | XA235     | 52                              |        | XA241     | 14  |             |      | 16B   | 9              |        | TF208A | 01       | TF208A      | 00               | 1     | TQ2                 | D1                 | 24A                | TE28 TO TE20 SHI |       |
| 16611         |        | XA235     | 53                              |        | XA235     | 59  |             |      | 16B   | 9              |        | TTESD0 | 02       | TF268A      | 01               | 1     | TQ2                 | E3                 | 28B                |                  |       |
| 12864         |        | XA235     | 54                              |        | XA333     | 13  |             |      | 16B   | 9              |        | TE28BQ | 03       | TF208A      | 01               | 1     | TQ2                 | D1                 | 25A                |                  |       |
| 12646         |        | XA235     | 55                              |        | XA208     | 53  |             |      | 16B   | 9              |        | TE02BQ | 04       | TF268A      | 01               | 2     | TQ2                 | E3                 | 29B                |                  |       |
| 16605         |        | XA235     | 56                              |        | XA235     | 50  |             |      | 16B   | 9              |        | TTESCO | 05       | TF208A      | 01               | 2     | TQ2                 | O1                 | 26A                |                  |       |
| 13225         |        | XA235     | 57                              |        | XA236     | 22  |             |      | 16B   | 9              |        | TF268A | 01       | TF268A      | 00               | 1     | TQ2                 | E3                 | 30B                | TE02 TO TE26 SHI |       |
| 02205         |        | XA235     | 58                              |        |           |     |             |      |       |                |        | GND    | 01       |             |                  |       | TQ2                 |                    | 27A                |                  |       |
| 16612         |        | XA235     | 59                              |        | XA235     | 64  |             |      | 16B   | 9              |        | TTESD0 | 03       | TF278A      | 01               | 1     | TQ2                 | E4                 | 31B                |                  |       |
| 13217         |        | XA235     | 60                              |        | XA236     | 01  |             |      | 16B   | 9              |        | TF258A | 01       | TF258A      | 00               | 1     | TQ2                 | E2                 | 28A                | TE01 TO TE25 SHI |       |
| 12659         |        | XA235     | 61                              |        | XA208     | 59  |             |      | 16B   | 9              |        | TE03BQ | 04       | TF278A      | 01               | 2     | TQ2                 | E4                 | 32B                |                  |       |
| 12633         |        | XA235     | 62                              |        | XA208     | 62  |             |      | 16B   | 9              |        | TE01BQ | 04       | TF258A      | 01               | 1     | TQ2                 | E2                 | 29A                |                  |       |
| 13233         |        | XA235     | 63                              |        | XA236     | 14  |             |      | 16B   | 9              |        | TF278A | 01       | TF278A      | 00               | 1     | TQ2                 | E4                 | 33B                | TE03 TO TE27 SHI |       |
| 16613         |        | XA235     | 64                              |        | XA235     | 70  |             |      | 16B   | 9              |        | TTESD0 | 04       | TF258A      | 01               | 2     | TQ2                 | E2                 | 30A                |                  |       |
| 12698         |        | XA235     | 65                              |        | XA208     | 65  |             |      | 16B   | 9              |        | TE06BQ | 04       | TF308A      | 01               | 1     | TQ2                 | F3                 | 34B                |                  |       |
| 13209         |        | XA235     | 66                              |        | XA236     | 06  |             |      | 16B   | 9              |        | TF248A | 01       | TF248A      | 00               | 1     | TQ2                 | E1                 | 31A                | TE00 TO TE24 SHI |       |
| 02206         |        | XA235     | 67                              |        |           |     |             |      |       |                |        | GND    | 01       |             |                  |       | TQ2                 |                    | 40A                |                  |       |
| 12618         |        | XA235     | 68                              |        | XA240     | 76  |             |      | 16B   | 9              |        | TE00BQ | 02       | TF248A      | 01               | 1     | TQ2                 | E1                 | 32A                |                  |       |
| 13257         |        | XA235     | 69                              |        | XA236     | 54  |             |      | 16B   | 9              |        | TF308A | 01       | TF308A      | 00               | 1     | TQ2                 | F3                 | 35A                | TE06 TO TE30 SHI |       |
| 16614         |        | XA235     | 70                              |        | XA235     | 74  |             |      | 16B   | 9              |        | TTESD0 | 05       | TF248A      | 01               | 2     | TQ2                 | E1                 | 33A                |                  |       |
| 16618         |        | XA235     | 71                              |        |           |     |             |      |       |                |        | TTESD0 | 09       | TF298A      | 01               | 1     | TQ2                 | F2                 | 36A                |                  |       |
| 13250         |        | XA235     | 72                              |        |           |     |             |      |       |                |        | TF298A | 02       | TF298A      | 00               | 1     | TQ2                 | F2                 | 34A                | TE05 TO TE29 SHI |       |
| 12685         |        | XA235     | 73                              |        | XA207     | 77  |             |      | 16B   | 9              |        | TE05BQ | 04       | TF298A      | 01               | 2     | TQ2                 | F2                 | 36B                |                  |       |
| 16615         |        | XA235     | 74                              |        | XA235     | 78  |             |      | 16B   | 9              |        | TTESD0 | 06       | TF308A      | 01               | 2     | TQ2                 | F3                 | 35B                |                  |       |
| 13241         |        | XA235     | 75                              |        | XA236     | 37  |             |      | 16B   | 9              |        | TF288A | 01       | TF288A      | 00               | 1     | TQ2                 | F1                 | 37B                | TE04 TO TE28 SHI |       |
| 12711         |        | XA235     | 76                              |        | XA208     | 76  |             |      | 16B   | 9              |        | TE07BQ | 04       | TF318A      | 01               | 1     | TQ2                 | F4                 | 37A                |                  |       |
| 16617         |        | XA235     | 77                              |        | XA235     | 71  |             |      | 16B   | 9              |        | TTESD0 | 08       | TF288A      | 01               | 1     | TQ2                 | F1                 | 38B                |                  |       |
| 16616         |        | XA235     | 78                              |        | XA235     | 77  |             |      | 16B   | 9              |        | TTESD0 | 07       | TF318A      | 01               | 2     | TQ2                 | F4                 | 38A                |                  |       |
| 12672         |        | XA235     | 79                              |        | XA208     | 77  |             |      | 16B   | 9              |        | TE04BQ | 04       | TF288A      | 01               | 2     | TQ2                 | F1                 | 39B                |                  |       |
| 13265         |        | XA235     | 80                              |        | XA236     | 48  |             |      | 16B   | 9              |        | TF318A | 01       | TF318A      | 00               | 1     | TQ2                 | F4                 | 39A                | TE07 TO TE31 SHI |       |
| 13218         |        | XA236     | 01                              |        |           |     |             |      |       |                |        | TF258A | 02       | TE2510      | 01               | 1     | TD4                 | A2                 | 02B                |                  |       |
| 02207         |        | XA236     | 02                              |        |           |     |             |      |       |                |        | GND    | 01       |             |                  |       | TD4                 |                    | 01A                |                  |       |
| 00992         |        | XA236     | 03                              |        |           |     |             |      |       |                |        | DNW    | 01       |             |                  |       | TD4                 |                    |                    |                  |       |
| 13213         |        | XA236     | 04                              |        | XA232     | 39  |             |      | 16B   | 9              |        | TF252A | 01       | TE2510      | 01               | 2     | TD4                 | A2                 | 04A                |                  |       |
| 13216         |        | XA236     | 05                              |        |           |     |             |      |       |                |        | TF253A | 02       | TE2510      | 01               | 3     | TD4                 | A2                 | 03B                |                  |       |
| 13210         |        | XA236     | 06                              |        |           |     |             |      |       |                |        | TF248A | 02       | TE2410      | 01               | 1     | TD4                 | A1                 | 05A                |                  |       |
| 13212         |        | XA236     | 07                              |        |           |     |             |      |       |                |        | TF251A | 02       | TE2510      | 01               | 4     | TD4                 | A2                 | 03A                |                  |       |
| 13204         |        | XA236     | 08                              |        |           |     |             |      |       |                |        | TF241A | 02       | TE2410      | 01               | 2     | TD4                 | A1                 | 06A                |                  |       |
| 12827         |        | XA236     | 09                              |        | XA238     | 05  |             |      | 16B   | 9              |        | TE2510 | 01       | TE2510      | 00               | 1     | TD4                 | A2                 | 04B                | ORED DATA INPUT  |       |
| 13205         |        | XA236     | 10                              |        | XA232     | 30  |             |      | 16B   | 9              |        | TF242A | 01       | TE2410      | 01               | 3     | TD4                 | A1                 | 07A                |                  |       |
| 12812         |        | XA236     | 11                              |        | XA238     | 08  |             |      | 16B   | 9              |        | TE2410 | 01       | TE2410      | 00               | 1     | TD4                 | A1                 | 05B                | ORED DATA INPUT  |       |
| 0042          |        | XA236     | 12                              |        |           |     |             |      |       |                |        | +5V    | 01       |             |                  |       | TD4                 |                    |                    |                  |       |
| CONNECTOR     |        | XA236     | CONTINUED ON THE NEXT PAGE **** |        |           |     |             |      |       |                |        |        |          |             |                  |       |                     |                    |                    |                  |       |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA236  
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| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE       |      |       | SFC INST. MISC. | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINT'S AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|------------|------|-------|-----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|---------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | WIRE GROUP | CODE | COLOR |                 |        |        |          |      |        |                  |       |                     |                     |                    |                  |
| 13208   |        | XA236     | 13  |        |           |     |            |      |       |                 | TF243A | 02     | TE2410   | 01   | 4      | TD4              | A1    |                     | 06B                 |                    |                  |
| 13234   |        | XA236     | 14  |        |           |     |            |      |       |                 | TF278A | 02     | TE2710   | 01   | 1      | TD4              | B2    |                     | 09A                 |                    |                  |
| 00993   |        | XA236     | 15  |        |           |     |            |      |       |                 | DNW    | 01     |          |      |        | TD4              |       |                     |                     |                    |                  |
| 02208   |        | XA236     | 16  |        |           |     |            |      |       |                 | GND    | 01     |          |      |        | TD4              |       |                     | 20B                 |                    |                  |
| 00994   |        | XA236     | 17  |        |           |     |            |      |       |                 | DNW    | 01     |          |      |        | TD4              |       |                     |                     |                    |                  |
| 13229   |        | XA236     | 18  |        | XA232     | 51  |            |      |       |                 | TF272A | 01     | TE2710   | 01   | 2      | TD4              | B2    |                     | 10A                 |                    |                  |
| 13232   |        | XA236     | 19  |        |           |     |            |      |       |                 | TF273A | 02     | TE2710   | 01   | 3      | TD4              | B2    |                     | 09B                 |                    |                  |
| 13228   |        | XA236     | 20  |        |           |     |            |      |       |                 | TF271A | 02     | TE2710   | 01   | 4      | TD4              | B2    |                     | 11A                 |                    |                  |
| 12857   |        | XA236     | 21  |        | XA238     | 18  |            |      |       |                 | TE2710 | 01     | TE2710   | 00   | 1      | TD4              | B2    |                     | 10B                 |                    | ORED DATA INPUT  |
| 13226   |        | XA236     | 22  |        |           |     |            |      |       |                 | TF268A | 02     | TE2610   | 01   | 1      | TD4              | B1    |                     | 12A                 |                    |                  |
| 12842   |        | XA236     | 23  |        | XA238     | 24  |            |      |       |                 | TE2610 | 01     | TE2610   | 00   | 1      | TD4              | B1    |                     | 11B                 |                    | ORED DATA INPUT  |
| 13220   |        | XA236     | 24  |        |           |     |            |      |       |                 | TF261A | 02     | TE2610   | 01   | 2      | TD4              | B1    |                     | 13A                 |                    |                  |
| 13221   |        | XA236     | 25  |        | XA232     | 46  |            |      |       |                 | TF262A | 01     | TE2610   | 01   | 3      | TD4              | B1    |                     | 12B                 |                    |                  |
| 13224   |        | XA236     | 26  |        |           |     |            |      |       |                 | TF263A | 02     | TE2610   | 01   | 4      | TD4              | B1    |                     | 14A                 |                    |                  |
| 00995   |        | XA236     | 27  |        |           |     |            |      |       |                 | DNW    | 01     |          |      |        | TD4              |       |                     |                     |                    |                  |
| 00439   |        | XA236     | 28  |        |           |     |            |      |       |                 | +5V    | 01     |          |      |        | TD4              |       |                     |                     |                    |                  |
| 00996   |        | XA236     | 29  |        |           |     |            |      |       |                 | DNW    | 01     |          |      |        | TD4              |       |                     |                     |                    |                  |
| 13245   |        | XA236     | 30  |        | XA232     | 63  |            |      |       |                 | TF292A | 01     | TE2910   | 01   | 1      | TD4              | C2    |                     | 15A                 |                    |                  |
| 13244   |        | XA236     | 31  |        |           |     |            |      |       |                 | TF291A | 02     | TE2910   | 01   | 2      | TD4              | C2    |                     | 15B                 |                    |                  |
| 02209   |        | XA236     | 32  |        |           |     |            |      |       |                 | GND    | 01     |          |      |        | TD4              |       |                     | 21B                 |                    |                  |
| 12885   |        | XA236     | 33  |        | XA238     | 34  |            |      |       |                 | TE2910 | 01     | TE2910   | 00   | 1      | TD4              | C2    |                     | 16B                 |                    | ORED DATA INPUT  |
| 13248   |        | XA236     | 34  |        |           |     |            |      |       |                 | TF293A | 02     | TE2910   | 01   | 3      | TD4              | C2    |                     | 16A                 |                    |                  |
| 12871   |        | XA236     | 35  |        | XA238     | 40  |            |      |       |                 | TE2810 | 01     | TE2810   | 00   | 1      | TD4              | C1    |                     | 17B                 |                    | ORED DATA INPUT  |
| 13249   |        | XA236     | 36  |        | XA235     | 72  |            |      |       |                 | TF298A | 01     | TE2910   | 01   | 4      | TD4              | C2    |                     | 17A                 |                    |                  |
| 13242   |        | XA236     | 37  |        |           |     |            |      |       |                 | TF288A | 02     | TE2810   | 01   | 1      | TD4              | C1    |                     | 18B                 |                    |                  |
| 13236   |        | XA236     | 38  |        |           |     |            |      |       |                 | TF281A | 02     | TE2810   | 01   | 2      | TD4              | C1    |                     | 18A                 |                    |                  |
| 00997   |        | XA236     | 39  |        |           |     |            |      |       |                 | DNW    | 01     |          |      |        | TD4              |       |                     |                     |                    |                  |
| 13237   |        | XA236     | 40  |        | XA232     | 60  |            |      |       |                 | TF282A | 01     | TE2810   | 01   | 3      | TD4              | C1    |                     | 19A                 |                    |                  |
| 00998   |        | XA236     | 41  |        |           |     |            |      |       |                 | DNW    | 01     |          |      |        | TD4              |       |                     |                     |                    |                  |
| 13240   |        | XA236     | 42  |        |           |     |            |      |       |                 | TF283A | 02     | TE2810   | 01   | 4      | TD4              | C1    |                     | 20A                 |                    |                  |
| 13261   |        | XA236     | 43  |        | XA232     | 80  |            |      |       |                 | TF312A | 01     | TE3110   | 01   | 1      | TD4              | D2    |                     | 23B                 |                    |                  |
| 02210   |        | XA236     | 44  |        |           |     |            |      |       |                 | GND    | 01     |          |      |        | TD4              |       |                     | 27A                 |                    |                  |
| 12913   |        | XA236     | 45  |        | XA238     | 48  |            |      |       |                 | TE3110 | 01     | TE3110   | 00   | 1      | TD4              | D2    |                     | 24B                 |                    | ORED DATA INPUT  |
| 13260   |        | XA236     | 46  |        |           |     |            |      |       |                 | TF311A | 02     | TE3110   | 01   | 2      | TD4              | D2    |                     | 21A                 |                    |                  |
| 12899   |        | XA236     | 47  |        | XA238     | 54  |            |      |       |                 | TE3010 | 01     | TE3010   | 00   | 1      | TD4              | D1    |                     | 25B                 |                    | ORED DATA INPUT  |
| 13266   |        | XA236     | 48  |        |           |     |            |      |       |                 | TF318A | 02     | TE3110   | 01   | 3      | TD4              | D2    |                     | 22A                 |                    |                  |
| 13252   |        | XA236     | 49  |        |           |     |            |      |       |                 | TF301A | 02     | TE3010   | 01   | 1      | TD4              | D1    |                     | 26B                 |                    |                  |
| 13264   |        | XA236     | 50  |        |           |     |            |      |       |                 | TF313A | 02     | TE3110   | 01   | 4      | TD4              | D2    |                     | 23A                 |                    |                  |
| 00999   |        | XA236     | 51  |        |           |     |            |      |       |                 | DNW    | 01     |          |      |        | TD4              |       |                     |                     |                    |                  |
| 13253   |        | XA236     | 52  |        | XA232     | 72  |            |      |       |                 | TF302A | 01     | TE3010   | 01   | 2      | TD4              | D1    |                     | 24A                 |                    |                  |
| 01000   |        | XA236     | 53  |        |           |     |            |      |       |                 | DNW    | 01     |          |      |        | TD4              |       |                     |                     |                    |                  |
| 13258   |        | XA236     | 54  |        |           |     |            |      |       |                 | TF308A | 02     | TE3010   | 01   | 3      | TD4              | D1    |                     | 25A                 |                    |                  |
| 13624   |        | XA236     | 55  |        |           |     |            |      |       |                 | SPI016 | 28     |          |      |        | TD4              | E2    |                     | 29B                 |                    | C05              |
| 13256   |        | XA236     | 56  |        |           |     |            |      |       |                 | TF303A | 02     | TE3010   | 01   | 4      | TD4              | D1    |                     | 26A                 |                    |                  |
| 12550   |        | XA236     | 57  |        |           |     |            |      |       |                 | SPO    | 01     |          |      |        | TD4              | E2    |                     | 30B                 |                    | RESET INPUT      |
| 02211   |        | XA236     | 58  |        |           |     |            |      |       |                 | GND    | 01     |          |      |        | TD4              |       |                     | 40A                 |                    |                  |
| 12469   |        | XA236     | 59  |        | XA237     | 73  |            |      |       |                 | TECK10 | 01     | TECK10   | 00   | 1      | TD4              | E1    |                     | 31B                 |                    | CLOCK INPUT BITS |
| 16279   |        | XA236     | 60  |        | XA237     | 76  |            |      |       |                 | SPI017 | 005    |          |      |        | TD4              | E2    |                     | 28A                 |                    | C05              |
| 16347   |        | XA236     | 61  |        | XA251     | 35  |            |      |       |                 | TS228P | 05     | TECK10   | 01   | 1      | TD4              | E1    |                     | 32B                 |                    |                  |
| 12562   |        | XA236     | 62  |        | XA249     | 54  |            |      |       |                 | SPI018 | 005    |          |      |        | TD4              | E2    |                     | 29A                 |                    | C05              |
| CONNECTOR (XA236) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |            |      |       |                 |        |        |          |      |        |                  |       |                     |                     |                    |                  |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA236  
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| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | EFC INST WIRE | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|---------------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |             |                  |       |                     |                    |                    |                  |
| 01001         |        | XA236     | 63                              |      |        |           |     |      |             |      |       |       |               | DNW    | 01     |          |             |                  |       |                     |                    |                    |                  |
| 15966         |        | XA236     | 64                              |      | XA251  | 75        |     |      |             | 16B  | 9     |       |               | SP1021 | 01     |          | 01          | 4                | TD4   | E2                  |                    | 30A                | C05              |
| 01002         |        | XA236     | 65                              |      |        |           |     |      |             |      |       |       |               | DNW    | 01     |          |             |                  | TD4   |                     |                    |                    |                  |
| 16620         |        | XA236     | 66                              |      | XA135  | 41        |     |      |             | 16B  | 9     |       |               | TTESPA | 02     | TECK10   | 01          | 2                | TD4   | E1                  |                    | 31A                |                  |
| 02212         |        | XA236     | 67                              |      |        |           |     |      |             |      |       |       |               | GND    | 01     |          |             |                  | TD4   |                     |                    | 40B                |                  |
| 16870         |        | XA236     | 68                              |      | XA138  | 80        |     |      |             | 16B  | 9     |       |               | TWTCAA | 01     | TECK10   | 01          | 3                | TD4   | E1                  |                    | 32A                |                  |
| 16414         |        | XA236     | 69                              |      | XA349  | 26        |     |      |             | 16B  | 9     |       |               | TS251A | 01     | TS251A   | 00          | 1                | TD4   | F2                  |                    | 35A                | WORD INPUT COMPL |
| 16395         |        | XA236     | 70                              |      | XA225  | 42        |     |      |             | 16B  | 9     |       |               | TS248P | 05     | TECK10   | 01          | 4                | TD4   | E1                  |                    | 33A                |                  |
| 16429         |        | XA236     | 71                              |      | XA346  | 45        |     |      |             | 16B  | 9     |       |               | TS261A | 05     | TS251A   | 01          | 1                | TD4   | F2                  |                    | 36A                |                  |
| 16407         |        | XA236     | 72                              |      | XA335  | 71        |     |      |             | 16B  | 9     |       |               | TS258Q | 03     | TS251A   | 01          | 2                | TD4   | F2                  |                    | 34A                |                  |
| 15773         |        | XA236     | 73                              |      | XA341  | 39        |     |      |             | 16B  | 9     |       |               | TS007A | 01     | TS251A   | 01          | 3                | TD4   | F2                  |                    | 36B                |                  |
| 16435         |        | XA236     | 74                              |      | XA350  | 20        |     |      |             | 16B  | 9     |       |               | TS262A | 02     | TS251A   | 01          | 4                | TD4   | F2                  |                    | 35B                |                  |
| 10213         |        | XA236     | 75                              |      | XA322  | 36        |     |      |             | 16B  | 9     |       |               | TC11BQ | 01     | TI120A   | 01          | 1                | TD4   | F1                  |                    | 37B                |                  |
| 13557         |        | XA236     | 76                              |      | XA304  | 11        |     |      |             | 16B  | 9     |       |               | TI120A | 01     | TI120A   | 00          | 1                | TD4   | F1                  |                    | 37A                | BYTE INPUT COMPL |
| 08754         |        | XA236     | 77                              |      | XA150  | 47        |     |      |             | 16B  | 9     |       |               | TBC1BQ | 02     | TI120A   | 01          | 2                | TD4   | F1                  |                    | 38B                |                  |
| 16096         |        | XA236     | 78                              |      | XA343  | 22        |     |      |             | 16B  | 9     |       |               | TS138Q | 03     | TI120A   | 01          | 3                | TD4   | F1                  |                    | 38A                |                  |
| 13351         |        | XA236     | 79                              |      | XA333  | 36        |     |      |             | 16B  | 9     |       |               | TINDCA | 03     | TI120A   | 01          | 4                | TD4   | F1                  |                    | 39B                |                  |
| 01003         |        | XA236     | 80                              |      |        |           |     |      |             |      |       |       |               | DNW    | 01     |          |             |                  | TD4   |                     |                    |                    |                  |
| 12162         |        | XA237     | 01                              |      | XA216  | 06        |     |      |             | 16B  | 9     |       |               | TD243A | 01     | TD243A   | 00          | 1                | TQ2   | A2                  |                    | 02B                | BYTE 4 XFER BIT  |
| 02213         |        | XA237     | 02                              |      |        |           |     |      |             |      |       |       |               | GND    | 01     |          |             |                  | TQ2   |                     |                    | 01A                |                  |
| 09324         |        | XA237     | 03                              |      | XA235  | 08        |     |      |             | 16B  | 9     |       |               | TB2XA0 | 05     | TD096A   | 01          | 1                | TQ2   | A3                  |                    | 02A                |                  |
| 16855         |        | XA237     | 04                              |      | XA138  | 09        |     |      |             | 16B  | 9     |       |               | TWDXB0 | 09     | TD243A   | 01          | 1                | TQ2   | A2                  |                    | 04A                |                  |
| 12802         |        | XA237     | 05                              |      | XA238  | 13        |     |      |             | 16B  | 9     |       |               | TE248Q | 01     | TD243A   | 01          | 2                | TQ2   | A2                  |                    | 03B                |                  |
| 11324         |        | XA237     | 06                              |      | XA228  | 06        |     |      |             | 16B  | 9     |       |               | TD006A | 01     | TD006A   | 00          | 1                | TQ2   | A1                  |                    | 05A                | TE TO TD BYTE MO |
| 12823         |        | XA237     | 07                              |      | XA237  | 11        |     |      |             | 16B  | 9     |       |               | TE25C0 | 03     | TD096A   | 01          | 2                | TQ2   | A3                  |                    | 03A                |                  |
| 09303         |        | XA237     | 08                              |      | XA237  | 20        |     |      |             | 16B  | 9     |       |               | TB1XA0 | 03     | TD006A   | 01          | 1                | TQ2   | A1                  |                    | 06A                |                  |
| 11654         |        | XA237     | 09                              |      | XA227  | 64        |     |      |             | 16B  | 9     |       |               | TD096A | 01     | TD096A   | 00          | 1                | TQ2   | A3                  |                    | 04B                | INPUT BYTE 2 TEO |
| 12809         |        | XA237     | 10                              |      | XA342  | 08        |     |      |             | 16B  | 9     |       |               | TE24C0 | 04     | TD006A   | 01          | 2                | TQ2   | A1                  |                    | 07A                |                  |
| 12824         |        | XA237     | 11                              |      | XA342  | 03        |     |      |             | 16B  | 9     |       |               | TE25C0 | 04     | TD256A   | 01          | 1                | TQ2   | A4                  |                    | 05B                |                  |
| 00440         |        | XA237     | 12                              |      |        |           |     |      |             |      |       |       |               | +5V    | 01     |          |             |                  | TQ2   |                     |                    |                    |                  |
| 09355         |        | XA237     | 13                              |      | XA235  | 05        |     |      |             | 16B  | 9     |       |               | TB4XA0 | 03     | TD256A   | 01          | 2                | TQ2   | A4                  |                    | 06B                |                  |
| 11448         |        | XA237     | 14                              |      | XA227  | 22        |     |      |             | 16B  | 9     |       |               | TD036A | 01     | TD036A   | 00          | 1                | TQ2   | B2                  |                    | 09A                | TE TO TD BYTE MO |
| 12203         |        | XA237     | 15                              |      | XA215  | 05        |     |      |             | 16B  | 9     |       |               | TD256A | 01     | TD256A   | 00          | 1                | TQ2   | A4                  |                    | 07B                | INPUT BYTE 4 TEO |
| 02214         |        | XA237     | 16                              |      |        |           |     |      |             |      |       |       |               | GND    | 01     |          |             |                  | TQ2   |                     |                    | 01B                |                  |
| 16850         |        | XA237     | 17                              |      | XA240  | 10        |     |      |             | 16B  | 9     |       |               | TWDXB0 | 04     | TD273A   | 01          | 1                | TQ2   | B3                  |                    | 08B                |                  |
| 12854         |        | XA237     | 18                              |      | XA342  | 07        |     |      |             | 16B  | 9     |       |               | TE27C0 | 04     | TD036A   | 01          | 1                | TQ2   | B2                  |                    | 10A                |                  |
| 12847         |        | XA237     | 19                              |      | XA238  | 19        |     |      |             | 16B  | 9     |       |               | TE27BQ | 01     | TD273A   | 01          | 2                | TQ2   | B3                  |                    | 09B                |                  |
| 09304         |        | XA237     | 20                              |      | XA237  | 37        |     |      |             | 16B  | 9     |       |               | TB1XA0 | 04     | TD036A   | 01          | 2                | TQ2   | B2                  |                    | 11A                |                  |
| 12275         |        | XA237     | 21                              |      | XA215  | 18        |     |      |             | 16B  | 9     |       |               | TD273A | 01     | TD273A   | 00          | 1                | TQ2   | B3                  |                    | 10B                | BYTE 4 XFER BIT  |
| 11962         |        | XA237     | 22                              |      |        |           |     |      |             |      |       |       |               | TD186A | 02     | TD186A   | 00          | 1                | TQ2   | B1                  |                    | 12A                | INPUT BYTE 3 TEO |
| 09323         |        | XA237     | 23                              |      | XA237  | 03        |     |      |             | 16B  | 9     |       |               | TB2XA0 | 04     | TD126A   | 01          | 1                | TQ2   | B4                  |                    | 11B                |                  |
| 09339         |        | XA237     | 24                              |      | XA235  | 36        |     |      |             | 16B  | 9     |       |               | TB3XA0 | 03     | TD186A   | 01          | 1                | TQ2   | B1                  |                    | 13A                |                  |
| 12868         |        | XA237     | 25                              |      | XA237  | 42        |     |      |             | 16B  | 9     |       |               | TE28C0 | 03     | TD126A   | 01          | 2                | TQ2   | B4                  |                    | 12B                |                  |
| 12839         |        | XA237     | 26                              |      | XA342  | 01        |     |      |             | 16B  | 9     |       |               | TE26C0 | 04     | TD186A   | 01          | 2                | TQ2   | B1                  |                    | 14A                |                  |
| 11752         |        | XA237     | 27                              |      |        |           |     |      |             |      |       |       |               | TD126A | 02     | TD126A   | 00          | 1                | TQ2   | B4                  |                    | 13B                | INPUT BYTE 3 TEO |
| 00441         |        | XA237     | 28                              |      |        |           |     |      |             |      |       |       |               | +5V    | 01     |          |             |                  | TQ2   |                     |                    |                    |                  |
| 12877         |        | XA237     | 29                              |      | XA235  | 48        |     |      |             | 16B  | 9     |       |               | TE29BQ | 02     | TD293A   | 01          | 1                | TQ2   | C3                  |                    | 14B                |                  |
| 11785         |        | XA237     | 30                              |      |        |           |     |      |             |      |       |       |               | TD136A | 02     | TD136A   | 00          | 1                | TQ2   | C2                  |                    | 15A                | INPUT BYTE 2 TEO |
| CONNECTOR     |        | XA237     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |               |        |        |          |             |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA237  
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| RECORD NUMBER | FROM   |           |     | TO     |           |     | WIRE   |             |      | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|--------|-----------|-----|--------|-------------|------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16859         |        | XA237     | 31  |        | XA240     | 26  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 15B                |                    |        |
| 02215         |        | XA237     | 32  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 20B                |                    |        |
| 12345         |        | XA237     | 33  |        | XA215     | 31  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 16B                | BYTE 4 XFER BIT    |        |
| 12883         |        | XA237     | 34  |        | XA342     | 24  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 16A                |                    |        |
| 12897         |        | XA237     | 35  |        | XA235     | 35  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 17B                |                    |        |
| 09322         |        | XA237     | 36  |        | XA237     | 23  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 17A                |                    |        |
| 09305         |        | XA237     | 37  |        | XA237     | 47  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 18B                |                    |        |
| 12314         |        | XA237     | 38  |        | XA216     | 30  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 18A                | INPUT BYTE 4 TEO   |        |
| 11556         |        | XA237     | 39  |        | XA228     | 52  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 19B                | TE TO TD BYTE MO   |        |
| 09360         |        | XA237     | 40  |        | XA237     | 43  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 19A                |                    |        |
| 12896         |        | XA237     | 41  |        | XA237     | 35  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 22B                |                    |        |
| 12869         |        | XA237     | 42  |        | XA342     | 10  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 20A                |                    |        |
| 09361         |        | XA237     | 43  |        | XA237     | 59  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 23B                |                    |        |
| 02216         |        | XA237     | 44  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 21B                |                    |        |
| 12386         |        | XA237     | 45  |        | XA216     | 46  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 24B                | INPUT BYTE 4 TEO   |        |
| 12382         |        | XA237     | 46  |        | XA216     | 49  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 21A                | BYTE 4 XFER BIT    |        |
| 09306         |        | XA237     | 47  |        | XA235     | 40  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 25B                |                    |        |
| 16858         |        | XA237     | 48  |        | XA237     | 31  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 22A                |                    |        |
| 12908         |        | XA237     | 49  |        | XA237     | 61  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 26B                |                    |        |
| 12891         |        | XA237     | 50  |        | XA235     | 43  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 23A                |                    |        |
| 11592         |        | XA237     | 51  |        | XA227     | 46  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 27B                | TE TO TD BYTE MO   |        |
| 12097         |        | XA237     | 52  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 24A                | INPUT BYTE 3 TEO   |        |
| 12905         |        | XA237     | 53  |        | XA235     | 49  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 28B                |                    |        |
| 09338         |        | XA237     | 54  |        | XA237     | 24  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 25A                |                    |        |
| 16857         |        | XA237     | 55  |        | XA237     | 48  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 29B                |                    |        |
| 12895         |        | XA237     | 56  |        | XA237     | 41  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 26A                |                    |        |
| 12418         |        | XA237     | 57  |        | XA215     | 46  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 30B                | BYTE 4 XFER BIT    |        |
| 02217         |        | XA237     | 58  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 27A                |                    |        |
| 09362         |        | XA237     | 59  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 31B                |                    |        |
| 12132         |        | XA237     | 60  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 28A                | INPUT BYTE 3 TEO   |        |
| 12909         |        | XA237     | 61  |        | XA237     | 62  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 32B                |                    |        |
| 12910         |        | XA237     | 62  |        | XA237     | 68  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 29A                |                    |        |
| 12422         |        | XA237     | 63  |        | XA215     | 43  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 33B                | INPUT BYTE 4 TEO   |        |
| 09337         |        | XA237     | 64  |        | XA237     | 54  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 30A                |                    |        |
| 05334         |        | XA237     | 65  |        | XA237     | 71  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 34B                |                    |        |
| 11851         |        | XA237     | 66  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 31A                | INPUT BYTE 2 TEO   |        |
| 02218         |        | XA237     | 67  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 40A                |                    |        |
| 12911         |        | XA237     | 68  |        | XA342     | 14  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 32A                |                    |        |
| 12450         |        | XA237     | 69  |        | XA242     | 46  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 35A                | TE 08-31 CLOCK     |        |
| 09320         |        | XA237     | 70  |        | XA235     | 37  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 33A                |                    |        |
| 05335         |        | XA237     | 71  |        | XA230     | 74  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 36A                |                    |        |
| 12449         |        | XA237     | 72  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 34A                | TE 08-31 CLOCK U   |        |
| 12470         |        | XA237     | 73  |        | XA237     | 77  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 36B                |                    |        |
| 12473         |        | XA237     | 74  |        | XA239     | 71  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 35B                |                    |        |
| 12434         |        | XA237     | 75  |        | XA238     | 56  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 37B                | TE 08-31 CLOCK U   |        |
| 05332         |        | XA237     | 76  |        | XA237     | 79  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 37A                |                    |        |
| 12471         |        | XA237     | 77  |        | XA237     | 78  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 38B                |                    |        |
| 12472         |        | XA237     | 78  |        | XA237     | 74  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 38A                |                    |        |
| 05333         |        | XA237     | 79  |        | XA237     | 65  |        |             | 16B  | 9      |        |          |      |        |                  |       |                     | 39B                |                    |        |
| 12461         |        | XA237     | 80  |        |           |     |        |             |      |        |        |          |      |        |                  |       |                     | 39A                | TE 08-31 CLOCK     |        |

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| RECORD NUMBER | FROM   |           |              | TO     |               |     | WIRE |             |      |       | SPEC. INSC. MISC. | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |       |
|---------------|--------|-----------|--------------|--------|---------------|-----|------|-------------|------|-------|-------------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|-------|
|               | PREFIX | CONNECTOR | PIN          | PREFIX | CONNECTOR     | PIN | SIZE | MULTI GROUP | CODE | COLOR |                   |        |        |          |      |        |                  |       |                     |                    |                    |        | IDENT |
| 12441         |        | XA238     | 01           |        |               |     |      |             |      |       |                   | TECKAA | 08     | TE25BN   | 01   | 1      | TDD              | BN    |                     | 02B                |                    |        |       |
| 02219         |        | XA238     | 02           |        |               |     |      |             |      |       |                   | GND    | 01     |          |      |        | TDD              |       |                     | 01B                |                    |        |       |
| 04982         |        | XA238     | 03           |        | XA119         | 70  |      |             | 168  | 9     |                   | SPI004 | 17     | TE25BQ   | 01   | 1      | TDD              | BQ    |                     | 02A                |                    |        |       |
| 05319         |        | XA238     | 04           |        | XA238         | 20  |      |             | 168  | 9     |                   | SPI016 | 15     | TE25BP   | 01   | 1      | TDD              | BP    |                     | 04A                |                    |        |       |
| 12828         |        | XA238     | 05           |        |               |     |      |             |      |       |                   | TE2510 | 02     | TE25BI   | 01   | 1      | TDD              | BI    |                     | 03B                |                    |        |       |
| 05344         |        | XA238     | 06           |        | XA227         | 05  |      |             | 168  | 9     |                   | SPI017 | 13     | TE24BP   | 01   | 1      | TDD              | AP    |                     | 05A                |                    |        |       |
| 12818         |        | XA238     | 07           |        | XA239         | 53  |      |             | 168  | 9     |                   | TE25BQ | 02     | TE25BQ   | 00   | 1      | TDD              | BQ    |                     | 03A                | BIT 25 I/O REG S   |        |       |
| 12813         |        | XA238     | 08           |        |               |     |      |             |      |       |                   | TE2410 | 02     | TE24BI   | 01   | 1      | TDD              | AI    |                     | 06A                |                    |        |       |
| 12816         |        | XA238     | 09           |        |               |     |      |             |      |       |                   | TE25BP | 03     | TE25BP   | 00   | 1      | TDD              | BP    |                     | 04B                | BIT 25 I/O REG R   |        |       |
| 12442         |        | XA238     | 10           |        | XA242         | 01  |      |             | 168  | 9     |                   | TECKBA | 01     | TE24BN   | 01   | 1      | TDD              | AN    |                     | 07A                |                    |        |       |
| 12801         |        | XA238     | 11           |        |               |     |      |             |      |       |                   | TE24BP | 03     | TE24BP   | 00   | 1      | TDD              | AP    |                     | 05B                | BIT 24 I/O REG R   |        |       |
| 00442         |        | XA238     | 12           |        |               |     |      |             |      |       |                   | +5V    | 01     |          |      |        | TDD              |       |                     |                    |                    |        |       |
| 12803         |        | XA238     | 13           |        | XA239         | 59  |      |             | 168  | 9     |                   | TE24BQ | 02     | TE24BQ   | 00   | 1      | TDD              | AQ    |                     | 06B                | BIT 24 I/O REG S   |        |       |
| 12440         |        | XA238     | 14           |        | XA238         | 01  |      |             | 168  | 9     |                   | TECKAA | 07     | TE27BN   | 01   | 1      | TDD              | DN    |                     | 09A                |                    |        |       |
| 05383         |        | XA238     | 15           |        | XA227         | 06  |      |             | 168  | 9     |                   | SPI018 | 19     | TE24BQ   | 01   | 1      | TDD              | AQ    |                     | 07B                |                    |        |       |
| 02220         |        | XA238     | 16           |        |               |     |      |             |      |       |                   | GND    | 01     |          |      |        | TDD              |       |                     | 20B                |                    |        |       |
| 04981         |        | XA238     | 17           |        | XA238         | 03  |      |             | 168  | 9     |                   | SPI004 | 16     | TE27BQ   | 01   | 1      | TDD              | DQ    |                     | 08B                |                    |        |       |
| 12858         |        | XA238     | 18           |        |               |     |      |             |      |       |                   | TE2710 | 02     | TE27BI   | 01   | 1      | TDD              | DI    |                     | 10A                |                    |        |       |
| 12848         |        | XA238     | 19           |        | XA239         | 70  |      |             | 168  | 9     |                   | TE27BQ | 02     | TE27BQ   | 00   | 1      | TDD              | DQ    |                     | 09B                | BIT 27 I/O REG S   |        |       |
| 05320         |        | XA238     | 20           |        | XA238         | 36  |      |             | 168  | 9     |                   | SPI016 | 16     | TE27BP   | 01   | 1      | TDD              | DP    |                     | 11A                |                    |        |       |
| 12846         |        | XA238     | 21           |        |               |     |      |             |      |       |                   | TE27BP | 03     | TE27BP   | 00   | 1      | TDD              | DP    |                     | 10B                | BIT 27 I/O REG R   |        |       |
| 05343         |        | XA238     | 22           |        | XA238         | 06  |      |             | 168  | 9     |                   | SPI017 | 12     | TE26BP   | 01   | 1      | TDD              | CP    |                     | 12A                |                    |        |       |
| 12831         |        | XA238     | 23           |        |               |     |      |             |      |       |                   | TE26BP | 03     | TE26BP   | 00   | 1      | TDD              | CP    |                     | 11B                | BIT 26 I/O REG R   |        |       |
| 12843         |        | XA238     | 24           |        |               |     |      |             |      |       |                   | TE2610 | 02     | TE26BI   | 01   | 1      | TDD              | CI    |                     | 13A                |                    |        |       |
| 12833         |        | XA238     | 25           |        | XA239         | 64  |      |             | 168  | 9     |                   | TE26BQ | 02     | TE26BQ   | 00   | 1      | TDD              | CQ    |                     | 12B                | BIT 26 I/O REG S   |        |       |
| 12439         |        | XA238     | 26           |        | XA238         | 14  |      |             | 168  | 9     |                   | TECKAA | 06     | TE26BN   | 01   | 1      | TDD              | CN    |                     | 14A                |                    |        |       |
| 05382         |        | XA238     | 27           |        | XA238         | 15  |      |             | 168  | 9     |                   | SPI018 | 18     | TE26BQ   | 01   | 1      | TDD              | CQ    |                     | 13B                |                    |        |       |
| 00443         |        | XA238     | 28           |        |               |     |      |             |      |       |                   | +5V    | 01     |          |      |        | TDD              |       |                     |                    |                    |        |       |
| 04980         |        | XA238     | 29           |        | XA238         | 17  |      |             | 168  | 9     |                   | SPI004 | 15     | TE29BQ   | 01   | 1      | TDD              | FQ    |                     | 14B                |                    |        |       |
| 12438         |        | XA238     | 30           |        | XA238         | 26  |      |             | 168  | 9     |                   | TECKAA | 05     | TE29BN   | 01   | 1      | TDD              | FN    |                     | 15A                |                    |        |       |
| 12876         |        | XA238     | 31           |        | XA237         | 29  |      |             | 168  | 9     |                   | TE29BQ | 01     | TE29BQ   | 00   | 1      | TDD              | FQ    |                     | 15B                | BIT 29 I/O REG S   |        |       |
| 02221         |        | XA238     | 32           |        |               |     |      |             |      |       |                   | GND    | 01     |          |      |        | TDD              |       |                     | 21B                |                    |        |       |
| 12875         |        | XA238     | 33           |        |               |     |      |             |      |       |                   | TE29BP | 03     | TE29BP   | 00   | 1      | TDD              | FP    |                     | 16B                | BIT 29 I/O REG R   |        |       |
| 12886         |        | XA238     | 34           |        |               |     |      |             |      |       |                   | TE2910 | 02     | TE29BI   | 01   | 1      | TDD              | FI    |                     | 16A                |                    |        |       |
| 12861         |        | XA238     | 35           |        |               |     |      |             |      |       |                   | TE28BP | 03     | TE28BP   | 00   | 1      | TDD              | EP    |                     | 17B                | BIT 28 I/O REG R   |        |       |
| 05321         |        | XA238     | 36           |        | XA238         | 50  |      |             | 168  | 9     |                   | SPI016 | 17     | TE29BP   | 01   | 1      | TDD              | FP    |                     | 17A                |                    |        |       |
| 12863         |        | XA238     | 37           |        | XA235         | 54  |      |             | 168  | 9     |                   | TE28BQ | 02     | TE28BQ   | 00   | 1      | TDD              | EQ    |                     | 18B                | BIT 28 I/O REG S   |        |       |
| 05400         |        | XA238     | 38           |        | XA238         | 52  |      |             | 168  | 9     |                   | SPI019 | 01     | TE28BP   | 01   | 1      | TDD              | EP    |                     | 18A                |                    |        |       |
| 05381         |        | XA238     | 39           |        | XA238         | 27  |      |             | 168  | 9     |                   | SPI018 | 17     | TE28BQ   | 01   | 1      | TDD              | EQ    |                     | 19B                |                    |        |       |
| 12872         |        | XA238     | 40           |        |               |     |      |             |      |       |                   | TE2810 | 02     | TE28BI   | 01   | 1      | TDD              | EI    |                     | 19A                |                    |        |       |
| 04979         |        | XA238     | 41           |        | XA238         | 29  |      |             | 168  | 9     |                   | SPI004 | 14     | TE31BQ   | 01   | 1      | TDD              | HQ    |                     | 22B                |                    |        |       |
| 12437         |        | XA238     | 42           |        | XA238         | 30  |      |             | 168  | 9     |                   | TECKAA | 04     | TE28BN   | 01   | 1      | TDD              | EN    |                     | 20A                |                    |        |       |
| 12904         |        | XA238     | 43           |        | XA237         | 53  |      |             | 168  | 9     |                   | TE31BQ | 01     | TE31BQ   | 00   | 1      | TDD              | HQ    |                     | 23B                | BIT 31 I/O REG S   |        |       |
| 02222         |        | XA238     | 44           |        |               |     |      |             |      |       |                   | GND    | 01     |          |      |        | TDD              |       |                     | 27A                |                    |        |       |
| 12903         |        | XA238     | 45           |        |               |     |      |             |      |       |                   | TE31BP | 03     | TE31BP   | 00   | 1      | TDD              | HP    |                     | 24B                | BIT 31 I/O REG R   |        |       |
| 12436         |        | XA238     | 46           |        | XA238         | 42  |      |             | 168  | 9     |                   | TECKAA | 03     | TE31BN   | 01   | 1      | TDD              | HN    |                     | 21A                |                    |        |       |
| 12889         |        | XA238     | 47           |        |               |     |      |             |      |       |                   | TE30BP | 03     | TE30BP   | 00   | 1      | TDD              | GP    |                     | 25B                | BIT 30 I/O REG R   |        |       |
| 12914         |        | XA238     | 48           |        |               |     |      |             |      |       |                   | TE3110 | 02     | TE31BI   | 01   | 1      | TDD              | HI    |                     | 22A                |                    |        |       |
| 12890         |        | XA238     | 49           |        | XA237         | 50  |      |             | 168  | 9     |                   | TE30BQ | 01     | TE30BQ   | 00   | 1      | TDD              | GQ    |                     | 26B                | BIT 30 I/O REG S   |        |       |
| 05322         |        | XA238     | 50           |        | XA242         | 73  |      |             | 168  | 9     |                   | SPI016 | 18     | TE31BP   | 01   | 1      | TDD              | HP    |                     | 23A                |                    |        |       |
| CONNECTOR     |        | XA238     | CONTINUED ON |        | THE NEXT PAGE |     | **** |             |      |       |                   |        |        |          |      |        |                  |       |                     |                    |                    |        |       |

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|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH 10 | PREFIX | CONNECTOR | PIN | SH 10 | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05380   |        | XA238     | 51  |       | XA238  | 39        |     |       | 16B         | 9    |       | SPI018 | 16     | TE30BQ   | 01   | 1      | TDD              | GQ    |                     | 27B                |                    |        |
| 05401   |        | XA238     | 52  |       | XA238  | 63        |     |       | 16B         | 9    |       | SPI019 | 02     | TE30BP   | 01   | 1      | TDD              | GP    |                     | 24A                |                    |        |
| 16480   |        | XA238     | 53  |       | XA317  | 57        |     |       | 16B         | 9    |       | TS3EBP | 01     | TENBBQ   | 01   | 1      | TDD              | KQ    |                     | 28B                |                    |        |
| 12900   |        | XA238     | 54  |       |        |           |     |       |             |      |       | TE30L0 | 02     | TE30BI   | 01   | 1      | TDD              | GI    |                     | 25A                |                    |        |
| 12535   |        | XA238     | 55  |       |        |           |     |       |             |      |       | YENBBQ | 05     | TENBBQ   | 00   | 1      | TDD              | KQ    |                     | 29B                | ENABLE F/F-SET     |        |
| 12435   |        | XA238     | 56  |       | XA238  | 46        |     |       | 16B         | 9    |       | TECKAA | 02     | TE30BN   | 01   | 1      | TDD              | GN    |                     | 26A                |                    |        |
| 12526   |        | XA238     | 57  |       | XA141  | 79        |     |       | 16B         | 9    |       | YENBBP | 02     | TENBBP   | 00   | 1      | TDD              | KP    |                     | 30B                | ENABLE F/F RESET   |        |
| 02223   |        | XA238     | 58  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | TDD              |       |                     | 40A                |                    |        |
| 09739   |        | XA238     | 59  |       | XA141  | 77        |     |       | 16B         | 9    |       | TCMD8P | 02     | TCMD8P   | 00   | 1      | TDD              | JP    |                     | 31B                | COMMAND F/F RESE   |        |
| 13770   |        | XA238     | 60  |       | XA238  | 79        |     |       | 16B         | 9    |       | TKBAAB | 10     | TENBBN   | 01   | 1      | TDD              | KN    |                     | 28A                |                    |        |
| 09746   |        | XA238     | 61  |       |        |           |     |       |             |      |       | TCMD8Q | 05     | TCMD8Q   | 00   | 1      | TDD              | JQ    |                     | 32B                | COMMAND F/F SET    |        |
| 12543   |        | XA238     | 62  |       | XA137  | 73        |     |       | 16B         | 9    |       | TENB40 | 01     | TENBBJ   | 01   | 1      | TDD              | KI    |                     | 29A                |                    |        |
| 05402   |        | XA238     | 63  |       | XA238  | 80        |     |       | 16B         | 9    |       | SPI019 | 03     | TCMD8Q   | 01   | 1      | TDD              | JQ    |                     | 33B                |                    |        |
| 12537   |        | XA238     | 64  |       | XA238  | 66        |     |       | 16B         | 9    |       | TENB1A | 02     | TENBBP   | 01   | 1      | TDD              | KP    |                     | 30A                |                    |        |
| 05379   |        | XA238     | 65  |       | XA238  | 51        |     |       | 16B         | 9    |       | SPI018 | 15     | TK00BQ   | 01   | 1      | TDD              | MQ    |                     | 34B                |                    |        |
| 12538   |        | XA238     | 66  |       |        |           |     |       |             |      |       | TENB1A | 03     | TCMD8P   | 01   | 1      | TDD              | JP    |                     | 31A                |                    |        |
| 02224   |        | XA238     | 67  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | TDD              |       |                     | 40B                |                    |        |
| 09755   |        | XA238     | 68  |       |        |           |     |       |             |      |       | TCMD40 | 02     | TCMD8I   | 01   | 1      | TDD              | JI    |                     | 32A                |                    |        |
| 13921   |        | XA238     | 69  |       | XA341  | 05        |     |       | 16B         | 9    |       | TK00BP | 01     | TK00BP   | 00   | 1      | TDD              | MP    |                     | 35A                | CTS READ TAREG     |        |
| 13769   |        | XA238     | 70  |       | XA238  | 60        |     |       | 16B         | 9    |       | TKBAAB | 09     | TCMD8N   | 01   | 1      | TDD              | JN    |                     | 33A                |                    |        |
| 13929   |        | XA238     | 71  |       | XA339  | 11        |     |       | 16B         | 9    |       | TK01BP | 01     | TK00BI   | 01   | 1      | TDD              | MI    |                     | 36A                |                    |        |
| 20529   |        | XA238     | 72  |       | XA336  | 51        |     |       | 16B         | 9    |       | TOSCAA | 01     | TK00BN   | 01   | 1      | TDD              | MN    |                     | 34A                |                    |        |
| 13926   |        | XA238     | 73  |       | XA339  | 01        |     |       | 16B         | 9    |       | TK000A | 01     | TK00BP   | 01   | 1      | TDD              | MP    |                     | 36B                | IOC CLK GENERATO   |        |
| 13925   |        | XA238     | 74  |       |        |           |     |       |             |      |       | TK00BQ | 03     | TK00BQ   | 00   | 1      | TDD              | MQ    |                     | 35B                |                    |        |
| 09097   |        | XA238     | 75  |       | XA151  | 35        |     |       | 16B         | 9    |       | TBRFP  | 02     | TIND8P   | 01   | 1      | TDD              | LP    |                     | 37B                | RESET IND, S00+S   |        |
| 13330   |        | XA238     | 76  |       | XA338  | 13        |     |       | 16B         | 9    |       | TIND8P | 03     | TIND8P   | 00   | 1      | TDD              | LP    |                     | 37A                |                    |        |
| 13346   |        | XA238     | 77  |       | XA138  | 57        |     |       | 16B         | 9    |       | TIND8S | 01     | TIND8I   | 01   | 1      | TDD              | LI    |                     | 38B                |                    |        |
| 13339   |        | XA238     | 78  |       | XA139  | 73        |     |       | 16B         | 9    |       | TIND8S | 03     | TIND8Q   | 00   | 1      | TDD              | LQ    |                     | 38A                | INDICATOR RECEIV   |        |
| 13771   |        | XA238     | 79  |       | XA338  | 06        |     |       | 16B         | 9    |       | TKBAAB | 11     | TIND8N   | 01   | 1      | TDD              | LN    |                     | 39B                |                    |        |
| 05403   |        | XA238     | 80  |       | XA239  | 73        |     |       | 16B         | 9    |       | SPI019 | 04     | TIND8Q   | 01   | 1      | TDD              | LQ    |                     | 39A                |                    |        |
| 12995   |        | XA239     | 01  |       | XA243  | 37        |     |       | 16B         | 9    |       | TF028A | 01     | TF028A   | 00   | 1      | TQ2              | A2    |                     | 02B                | TE10 TO TE02 SHI   |        |
| 02225   |        | XA239     | 02  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 16590   |        | XA239     | 03  |       | XA135  | 49        |     |       | 16B         | 9    |       | TTESAO | 08     | TF018A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 12729   |        | XA239     | 04  |       | XA240  | 50        |     |       | 16B         | 9    |       | TE108Q | 01     | TF028A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 16589   |        | XA239     | 05  |       | XA239  | 03        |     |       | 16B         | 9    |       | TTESAO | 07     | TF028A   | 01   | 2      | TQ2              | A2    |                     | 03B                | TE11 TO TE03 SHI   |        |
| 13011   |        | XA239     | 06  |       | XA243  | 49        |     |       | 16B         | 9    |       | TF038A | 01     | TF038A   | 00   | 1      | TQ2              | A1    |                     | 05A                |                    |        |
| 12724   |        | XA239     | 07  |       | XA240  | 41        |     |       | 16B         | 9    |       | TE098Q | 01     | TF018A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 12734   |        | XA239     | 08  |       | XA240  | 56        |     |       | 16B         | 9    |       | TE118Q | 01     | TF038A   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 12979   |        | XA239     | 09  |       | XA243  | 24        |     |       | 16B         | 9    |       | TF018A | 01     | TF018A   | 00   | 1      | TQ2              | A3    |                     | 04B                | TE09 TO TE01 SHI   |        |
| 16588   |        | XA239     | 10  |       | XA239  | 05        |     |       | 16B         | 9    |       | TTESAO | 06     | TF038A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 16587   |        | XA239     | 11  |       | XA239  | 10        |     |       | 16B         | 9    |       | TTESAO | 05     | TF008A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00444   |        | XA239     | 12  |       |        |           |     |       |             |      |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 12719   |        | XA239     | 13  |       | XA240  | 47        |     |       | 16B         | 9    |       | TE088Q | 01     | TF008A   | 01   | 2      | TQ2              | A4    |                     | 06B                | TE14 TO TE06 SHI   |        |
| 13059   |        | XA239     | 14  |       | XA247  | 52        |     |       | 16B         | 9    |       | TF068A | 01     | TF068A   | 00   | 1      | TQ2              | B2    |                     | 09A                |                    |        |
| 12963   |        | XA239     | 15  |       | XA243  | 05        |     |       | 16B         | 9    |       | TF008A | 01     | TF008A   | 00   | 1      | TQ2              | A4    |                     | 07B                | TE08 TO TE00 SHI   |        |
| 02226   |        | XA239     | 16  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 16586   |        | XA239     | 17  |       | XA239  | 11        |     |       | 16B         | 9    |       | TTESAO | 04     | TF058A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 12749   |        | XA239     | 18  |       | XA240  | 34        |     |       | 16B         | 9    |       | TE148Q | 01     | TF068A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| CONNECTOR (XA239) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA239  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 145

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |               |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 12744   |        | XA239     | 19  |        | XA240     | 31  |      |             | 16B  | 9     |               | TE13BQ | 01     | TF058A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 16585   |        | XA239     | 20  |        | XA239     | 17  |      |             | 16B  | 9     |               | TTESAO | 03     | TF068A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 13043   |        | XA239     | 21  |        | XA243     | 77  |      |             | 16B  | 9     |               | TF058A | 01     | TF058A   | 00   | 1      | TQ2              | B3    |                     | 10B                | TE13 TO TE05 SHI   |        |
| 13075   |        | XA239     | 22  |        | XA247     | 37  |      |             | 16B  | 9     |               | TF078A | 01     | TF078A   | 00   | 1      | TQ2              | B1    |                     | 12A                | TE15 TO TE07 SHI   |        |
| 16583   |        | XA239     | 23  |        | XA239     | 26  |      |             | 16B  | 9     |               | TTESAO | 01     | TF048A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 12754   |        | XA239     | 24  |        | XA240     | 40  |      |             | 16B  | 9     |               | TE15BQ | 01     | TF078A   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 12739   |        | XA239     | 25  |        | XA240     | 35  |      |             | 16B  | 9     |               | TE12BQ | 01     | TF048A   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 16584   |        | XA239     | 26  |        | XA239     | 20  |      |             | 16B  | 9     |               | TTESAO | 02     | TF078A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 13027   |        | XA239     | 27  |        | XA243     | 66  |      |             | 16B  | 9     |               | TF048A | 01     | TF048A   | 00   | 1      | TQ2              | B4    |                     | 13B                | TE12 TO TE04 SHI   |        |
| 00445   |        | XA239     | 28  |        |           |     |      |             |      |       |               | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 16599   |        | XA239     | 29  |        | XA135     | 53  |      |             | 16B  | 9     |               | TTESB0 | 08     | TF098A   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 13099   |        | XA239     | 30  |        | XA248     | 78  |      |             | 16B  | 9     |               | TF108A | 01     | TF108A   | 00   | 1      | TQ2              | C2    |                     | 15A                | TE18 TO TE10 SHI   |        |
| 12765   |        | XA239     | 31  |        | XA242     | 49  |      |             | 16B  | 9     |               | TE17BQ | 02     | TF098A   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 02227   |        | XA239     | 32  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 13091   |        | XA239     | 33  |        | XA248     | 55  |      |             | 16B  | 9     |               | TF098A | 01     | TF098A   | 00   | 1      | TQ2              | C3    |                     | 16B                | TE17 TO TE09 SHI   |        |
| 16598   |        | XA239     | 34  |        | XA239     | 29  |      |             | 16B  | 9     |               | TTESB0 | 07     | TF108A   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 12760   |        | XA239     | 35  |        | XA242     | 43  |      |             | 16B  | 9     |               | TE16BQ | 02     | TF088A   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 12769   |        | XA239     | 36  |        | XA242     | 31  |      |             | 16B  | 9     |               | TE18BQ | 01     | TF108A   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 16596   |        | XA239     | 37  |        | XA239     | 40  |      |             | 16B  | 9     |               | TTESB0 | 05     | TF088A   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 13107   |        | XA239     | 38  |        | XA248     | 71  |      |             | 16B  | 9     |               | TF118A | 01     | TF118A   | 00   | 1      | TQ2              | C1    |                     | 18A                | TE19 TO TE11 SHI   |        |
| 13083   |        | XA239     | 39  |        | XA248     | 61  |      |             | 16B  | 9     |               | TF088A | 01     | TF088A   | 00   | 1      | TQ2              | C4    |                     | 19B                | TE16 TO TE08 SHI   |        |
| 16597   |        | XA239     | 40  |        | XA239     | 34  |      |             | 16B  | 9     |               | TTESB0 | 06     | TF118A   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 12786   |        | XA239     | 41  |        |           |     |      |             |      |       |               | TE21BQ | 03     | TF138A   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 12774   |        | XA239     | 42  |        | XA242     | 37  |      |             | 16B  | 9     |               | TE19BQ | 01     | TF118A   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 16595   |        | XA239     | 43  |        | XA239     | 37  |      |             | 16B  | 9     |               | TTESB0 | 04     | TF138A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02228   |        | XA239     | 44  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 13123   |        | XA239     | 45  |        | XA241     | 75  |      |             | 16B  | 9     |               | TF138A | 01     | TF138A   | 00   | 1      | TQ2              | D3    |                     | 24B                | TE21 TO TE13 SHI   |        |
| 13131   |        | XA239     | 46  |        | XA241     | 62  |      |             | 16B  | 9     |               | TF148A | 01     | TF148A   | 00   | 1      | TQ2              | D2    |                     | 21A                | TE22 TO TE14 SHI   |        |
| 12779   |        | XA239     | 47  |        | XA240     | 13  |      |             | 16B  | 9     |               | TE20BQ | 01     | TF128A   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 16593   |        | XA239     | 48  |        | XA239     | 49  |      |             | 16B  | 9     |               | TTESB0 | 02     | TF148A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 16594   |        | XA239     | 49  |        | XA239     | 43  |      |             | 16B  | 9     |               | TTESB0 | 03     | TF128A   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 12789   |        | XA239     | 50  |        | XA240     | 04  |      |             | 16B  | 9     |               | TE22BQ | 01     | TF148A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 13115   |        | XA239     | 51  |        | XA241     | 71  |      |             | 16B  | 9     |               | TF128A | 01     | TF128A   | 00   | 1      | TQ2              | D4    |                     | 27B                | TE20 TO TE12 SHI   |        |
| 13137   |        | XA239     | 52  |        | XA241     | 68  |      |             | 16B  | 9     |               | TF158A | 01     | TF158A   | 00   | 1      | TQ2              | D1    |                     | 24A                | TE23 TO TE15 SHI   |        |
| 12819   |        | XA239     | 53  |        | XA333     | 25  |      |             | 16B  | 9     |               | TE25BQ | 03     | TF178A   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 16592   |        | XA239     | 54  |        | XA239     | 48  |      |             | 16B  | 9     |               | TTESB0 | 01     | TF158A   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 16604   |        | XA239     | 55  |        | XA235     | 56  |      |             | 16B  | 9     |               | TTESCO | 04     | TF178A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 12794   |        | XA239     | 56  |        | XA240     | 08  |      |             | 16B  | 9     |               | TE23BQ | 01     | TF158A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 13153   |        | XA239     | 57  |        | XA241     | 52  |      |             | 16B  | 9     |               | TF178A | 01     | TF178A   | 00   | 1      | TQ2              | E3    |                     | 30B                | TE25 TO TE17 SHI   |        |
| 02229   |        | XA239     | 58  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 12804   |        | XA239     | 59  |        | XA333     | 26  |      |             | 16B  | 9     |               | TE24BQ | 03     | TF168A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 13161   |        | XA239     | 60  |        | XA241     | 34  |      |             | 16B  | 9     |               | TF188A | 01     | TF188A   | 00   | 1      | TQ2              | E2    |                     | 28A                | TE26 TO TE18 SHI   |        |
| 16603   |        | XA239     | 61  |        | XA239     | 55  |      |             | 16B  | 9     |               | TTESCO | 03     | TF168A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 16602   |        | XA239     | 62  |        | XA239     | 61  |      |             | 16B  | 9     |               | TTESCO | 02     | TF188A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 13145   |        | XA239     | 63  |        | XA241     | 48  |      |             | 16B  | 9     |               | TF168A | 01     | TF168A   | 00   | 1      | TQ2              | E4    |                     | 33B                | TE24 TO TE16 SHI   |        |
| 12834   |        | XA239     | 64  |        | XA333     | 07  |      |             | 16B  | 9     |               | TE26BQ | 03     | TF188A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 14913   |        | XA239     | 65  |        | XA341     | 33  |      |             | 16B  | 9     |               | TP0070 | 01     | TPE0PA   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 13169   |        | XA239     | 66  |        | XA241     | 40  |      |             | 16B  | 9     |               | TF198A | 01     | TF198A   | 00   | 1      | TQ2              | E1    |                     | 31A                | TE27 TO TE19 SHI   |        |
| 02230   |        | XA239     | 67  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 16601   |        | XA239     | 68  |        | XA239     | 62  |      |             | 16B  | 9     |               | TTESCO | 01     | TF198A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| CONNECTOR XA239 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |               |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA239  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 154

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SPEC INST. ASSC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|-----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH TC | MULTI GROUP | CODE | COLOR |                 |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14698   |        | XA239     | 69  |        | XA112     | 35  |       |             | 16B  | 9     |                 | TPE0PA | 01     | TPE0PA   | 00   | 1      | TQ2              | F3    |                     | 35A                | PARITY ERROR, 0-   |        |
| 12849   |        | XA239     | 70  |        | XA333     | 14  |       |             | 16B  | 9     |                 | TE27BQ | 03     | TF198A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 12474   |        | XA239     | 71  |        | XA239     | 79  |       |             | 16B  | 9     |                 | TECK10 | 06     | TECK2A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 12478   |        | XA239     | 72  |        |           |     |       |             |      |       |                 | TECK2A | 03     | TECK2A   | 00   | 1      | TQ2              | F2    |                     | 34A                | CLOCK INPUT BIT    |        |
| 05404   |        | XA239     | 73  |        | XA239     | 77  |       |             | 16B  | 9     |                 | SPT019 | 05     | TECK2A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 12613   |        | XA239     | 74  |        | XA339     | 25  |       |             | 16B  | 9     |                 | TEOPBQ | 01     | TPE0PA   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 12468   |        | XA239     | 75  |        |           |     |       |             |      |       |                 | TECK1A | 07     | TECK1A   | 00   | 1      | TQ2              | F1    |                     | 37B                | CLOCK INPUT        |        |
| 08388   |        | XA239     | 76  |        | XA150     | 78  |       |             | 16B  | 9     |                 | TADABP | 05     | TKADA0   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 05405   |        | XA239     | 77  |        | XA242     | 75  |       |             | 16B  | 9     |                 | SPT019 | 06     | TECK1A   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 14429   |        | XA239     | 78  |        |           |     |       |             |      |       |                 | TMO0AA | 05     | TKADA0   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    | D05    |
| 12475   |        | XA239     | 79  |        |           |     |       |             |      |       |                 | TECK10 | 07     | TECK1A   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 13745   |        | XA239     | 80  |        | XA141     | 76  |       |             | 16B  | 9     |                 | TKADA0 | 01     | TKADA0   | 00   | 1      | TQ2              | F4    |                     | 39A                | BYTE XFER CLOCK.   |        |
| 12092   |        | XA240     | 01  |        | XA222     | 73  |       |             | 16B  | 9     |                 | TD223A | 01     | TD223A   | 00   | 1      | TQ2              | A2    |                     | 02B                | BYTE 3 XFER BIT    |        |
| 02231   |        | XA240     | 02  |        |           |     |       |             |      |       |                 | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 16854   |        | XA240     | 03  |        | XA237     | 04  |       |             | 16B  | 9     |                 | TWDXB0 | 08     | TD213A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 12790   |        | XA240     | 04  |        | XA242     | 07  |       |             | 16B  | 9     |                 | TE22BQ | 02     | TD223A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 16853   |        | XA240     | 05  |        | XA240     | 03  |       |             | 16B  | 9     |                 | TWDXB0 | 07     | TD223A   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 12127   |        | XA240     | 06  |        | XA221     | 62  |       |             | 16B  | 9     |                 | TD233A | 01     | TD233A   | 00   | 1      | TQ2              | A1    |                     | 05A                | BYTE 3 XFER BIT    |        |
| 12784   |        | XA240     | 07  |        | XA242     | 25  |       |             | 16B  | 9     |                 | TE21BQ | 01     | TD213A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 12795   |        | XA240     | 08  |        | XA242     | 13  |       |             | 16B  | 9     |                 | TE23BQ | 02     | TD233A   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 12056   |        | XA240     | 09  |        | XA221     | 49  |       |             | 16B  | 9     |                 | TD213A | 01     | TD213A   | 00   | 1      | TQ2              | A3    |                     | 04B                | BYTE 3 XFER BIT    |        |
| 16851   |        | XA240     | 10  |        | XA240     | 11  |       |             | 16B  | 9     |                 | TWDXB0 | 05     | TD233A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 16852   |        | XA240     | 11  |        | XA240     | 05  |       |             | 16B  | 9     |                 | TWDXB0 | 06     | TD203A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00446   |        | XA240     | 12  |        |           |     |       |             |      |       |                 | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 12780   |        | XA240     | 13  |        | XA242     | 19  |       |             | 16B  | 9     |                 | TE20BQ | 02     | TD203A   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 11957   |        | XA240     | 14  |        | XA222     | 52  |       |             | 16B  | 9     |                 | TD183A | 01     | TD183A   | 00   | 1      | TQ2              | B2    |                     | 09A                | BYTE 3 XFER BIT    |        |
| 12020   |        | XA240     | 15  |        | XA222     | 62  |       |             | 16B  | 9     |                 | TD203A | 01     | TD203A   | 00   | 1      | TQ2              | A4    |                     | 07B                | BYTE 3 XFER BIT    |        |
| 02232   |        | XA240     | 16  |        |           |     |       |             |      |       |                 | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 16862   |        | XA240     | 17  |        | XA138     | 15  |       |             | 16B  | 9     |                 | TWDXC0 | 06     | TD173A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 16861   |        | XA240     | 18  |        | XA240     | 17  |       |             | 16B  | 9     |                 | TWDXC0 | 05     | TD183A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 12764   |        | XA240     | 19  |        | XA239     | 31  |       |             | 16B  | 9     |                 | TE17BQ | 01     | TD173A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 12771   |        | XA240     | 20  |        |           |     |       |             |      |       |                 | TE18BQ | 03     | TD183A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 11921   |        | XA240     | 21  |        | XA221     | 19  |       |             | 16B  | 9     |                 | TD173A | 01     | TD173A   | 00   | 1      | TQ2              | B3    |                     | 10B                | BYTE 3 XFER BIT    |        |
| 11989   |        | XA240     | 22  |        | XA221     | 38  |       |             | 16B  | 9     |                 | TD193A | 01     | TD193A   | 00   | 1      | TQ2              | B1    |                     | 12A                | BYTE 3 XFER BIT    |        |
| 12759   |        | XA240     | 23  |        | XA239     | 35  |       |             | 16B  | 9     |                 | TE16BQ | 01     | TD163A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 12776   |        | XA240     | 24  |        |           |     |       |             |      |       |                 | TE19BQ | 03     | TD193A   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 16844   |        | XA240     | 25  |        | XA135     | 75  |       |             | 16B  | 9     |                 | TWDXA0 | 09     | TD163A   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 16860   |        | XA240     | 26  |        | XA240     | 18  |       |             | 16B  | 9     |                 | TWDXC0 | 04     | TD193A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 11882   |        | XA240     | 27  |        | XA222     | 37  |       |             | 16B  | 9     |                 | TD163A | 01     | TD163A   | 00   | 1      | TQ2              | B4    |                     | 13B                | BYTE 3 XFER BIT    |        |
| 00447   |        | XA240     | 28  |        |           |     |       |             |      |       |                 | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 16843   |        | XA240     | 29  |        | XA240     | 25  |       |             | 16B  | 9     |                 | TWDXA0 | 08     | TD133A   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 11813   |        | XA240     | 30  |        | XA222     | 19  |       |             | 16B  | 9     |                 | TD143A | 01     | TD143A   | 00   | 1      | TQ2              | C2    |                     | 15A                | BYTE 2 XFER BIT    |        |
| 12745   |        | XA240     | 31  |        | XA242     | 78  |       |             | 16B  | 9     |                 | TE13BQ | 02     | TD133A   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 02233   |        | XA240     | 32  |        |           |     |       |             |      |       |                 | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 11780   |        | XA240     | 33  |        | XA222     | 04  |       |             | 16B  | 9     |                 | TD133A | 01     | TD133A   | 00   | 1      | TQ2              | C3    |                     | 16B                | BYTE 2 XFER BIT    |        |
| 12750   |        | XA240     | 34  |        | XA242     | 55  |       |             | 16B  | 9     |                 | TE14BQ | 02     | TD143A   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 12740   |        | XA240     | 35  |        | XA242     | 74  |       |             | 16B  | 9     |                 | TE12BQ | 02     | TD123A   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 16841   |        | XA240     | 36  |        | XA240     | 37  |       |             | 16B  | 9     |                 | TWDXA0 | 06     | TD143A   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| CONNECTOR (XA240) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |                 |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA240  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 155

| RECORD NUMBER                                   | FROM   |           |     | TO  |           |     | WIRE |             |      | SPEC. INST. MISC. | SIGNAL | SEQ NO. | EQUATION | TERM. FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|-----|-----------|-----|------|-------------|------|-------------------|--------|---------|----------|--------------|------------------|-------|---------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN | PIN | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE |                   |        |         |          |              |                  |       |                     |                    |                    |         |
| 16842   |        | XA240     | 37  |     | XA240     | 29  |      | 16B         | 9    |                   | TWDXA0 | 07      | TD123A   | 01           | 2                | TQ2   | C4                  | 18B                |                    |         |
| 11846   |        | XA240     | 38  |     | XA221     | 04  |      | 16B         | 9    |                   | TD153A | 01      | TD153A   | 00           | 1                | TQ2   | C1                  | 18A                | BYTE 2 XFER BIT    |         |
| 11747   |        | XA240     | 39  |     | XA424     | 72  |      | 16B         | 9    |                   | TD123A | 01      | TD123A   | 00           | 1                | TQ2   | C4                  | 19B                | BYTE 2 XFER BIT    |         |
| 12755   |        | XA240     | 40  |     | XA242     | 61  |      | 16B         | 9    |                   | TE15BQ | 02      | TD153A   | 01           | 1                | TQ2   | C1                  | 19A                |                    |         |
| 12725   |        | XA240     | 41  |     | XA244     | 55  |      | 16B         | 9    |                   | TE09BQ | 02      | TD093A   | 01           | 1                | TQ2   | D3                  | 22B                |                    |         |
| 16840   |        | XA240     | 42  |     | XA240     | 36  |      | 16B         | 9    |                   | TWDXA0 | 05      | TD153A   | 01           | 2                | TQ2   | C1                  | 20A                |                    |         |
| 16839   |        | XA240     | 43  |     | XA240     | 42  |      | 16B         | 9    |                   | TWDXA0 | 04      | TD093A   | 01           | 2                | TQ2   | D3                  | 23B                |                    |         |
| 02234   |        | XA240     | 44  |     |           |     |      |             |      |                   | GND    | 01      |          |              |                  | TQ2   |                     | 21B                |                    |         |
| 11650   |        | XA240     | 45  |     | XA227     | 66  |      | 16B         | 9    |                   | TD093A | 01      | TD093A   | 00           | 1                | TQ2   | D3                  | 24B                | BYTE 2 XFER BIT    |         |
| 11681   |        | XA240     | 46  |     | XA228     | 77  |      | 16B         | 9    |                   | TD103A | 01      | TD103A   | 00           | 1                | TQ2   | D2                  | 21A                | BYTE 2 XFER BIT    |         |
| 12720   |        | XA240     | 47  |     | XA244     | 61  |      | 16B         | 9    |                   | TE08BQ | 02      | TD083A   | 01           | 1                | TQ2   | D4                  | 25B                |                    |         |
| 16837   |        | XA240     | 48  |     | XA240     | 49  |      | 16B         | 9    |                   | TWDXA0 | 02      | TD103A   | 01           | 1                | TQ2   | D2                  | 22A                |                    |         |
| 16838   |        | XA240     | 49  |     | XA240     | 43  |      | 16B         | 9    |                   | TWDXA0 | 03      | TD083A   | 01           | 2                | TQ2   | D4                  | 26B                |                    |         |
| 12730   |        | XA240     | 50  |     | XA244     | 78  |      | 16B         | 9    |                   | TE10BQ | 02      | TD103A   | 01           | 2                | TQ2   | D2                  | 23A                |                    |         |
| 11619   |        | XA240     | 51  |     | XA228     | 64  |      | 16B         | 9    |                   | TD083A | 01      | TD083A   | 00           | 1                | TQ2   | D4                  | 27B                | BYTE 2 XFER BIT    |         |
| 11712   |        | XA240     | 52  |     | XA424     | 60  |      | 16B         | 9    |                   | TD113A | 01      | TD113A   | 00           | 1                | TQ2   | D1                  | 24A                | BYTE 2 XFER BIT    |         |
| 16823   |        | XA240     | 53  |     | XA240     | 61  |      | 16B         | 9    |                   | TWBXA0 | 03      | TD053A   | 01           | 1                | TQ2   | E3                  | 28B                |                    |         |
| 16836   |        | XA240     | 54  |     | XA240     | 48  |      | 16B         | 9    |                   | TWDXA0 | 01      | TD113A   | 01           | 1                | TQ2   | D1                  | 25A                |                    |         |
| 12684   |        | XA240     | 55  |     | XA235     | 73  |      | 16B         | 9    |                   | TE05BQ | 03      | TD053A   | 01           | 2                | TQ2   | E3                  | 29B                |                    |         |
| 12735   |        | XA240     | 56  |     | XA251     | 78  |      | 16B         | 9    |                   | TE11BQ | 02      | TD113A   | 01           | 2                | TQ2   | D1                  | 26A                |                    |         |
| 11516   |        | XA240     | 57  |     | XA227     | 34  |      | 16B         | 9    |                   | TD053A | 01      | TD053A   | 00           | 1                | TQ2   | E3                  | 30B                | BYTE 1 XFER BIT    |         |
| 02235   |        | XA240     | 58  |     |           |     |      |             |      |                   | GND    | 01      |          |              |                  | TQ2   |                     | 27A                |                    |         |
| 12671   |        | XA240     | 59  |     | XA235     | 79  |      | 16B         | 9    |                   | TE04BQ | 03      | TD043A   | 01           | 1                | TQ2   | E4                  | 31B                |                    |         |
| 11552   |        | XA240     | 60  |     | XA228     | 46  |      | 16B         | 9    |                   | TD063A | 01      | TD063A   | 00           | 1                | TQ2   | E2                  | 28A                | BYTE 1 XFER BIT    |         |
| 16824   |        | XA240     | 61  |     | XA240     | 62  |      | 16B         | 9    |                   | TWBXA0 | 04      | TD043A   | 01           | 2                | TQ2   | E4                  | 32B                |                    |         |
| 16825   |        | XA240     | 62  |     | XA240     | 68  |      | 16B         | 9    |                   | TWBXA0 | 05      | TD063A   | 01           | 1                | TQ2   | E2                  | 29A                |                    |         |
| 11480   |        | XA240     | 63  |     | XA228     | 31  |      | 16B         | 9    |                   | TD043A | 01      | TD043A   | 00           | 1                | TQ2   | E4                  | 33B                | BYTE 1 XFER BIT    |         |
| 12697   |        | XA240     | 64  |     | XA235     | 65  |      | 16B         | 9    |                   | TE06BQ | 03      | TD063A   | 01           | 2                | TQ2   | E2                  | 30A                |                    |         |
| 12632   |        | XA240     | 65  |     | XA235     | 62  |      | 16B         | 9    |                   | TE01BQ | 03      | TD013A   | 01           | 1                | TQ2   | F3                  | 34B                |                    |         |
| 11588   |        | XA240     | 66  |     | XA227     | 43  |      | 16B         | 9    |                   | TD073A | 01      | TD073A   | 00           | 1                | TQ2   | E1                  | 31A                | BYTE 1 XFER BIT    |         |
| 02236   |        | XA240     | 67  |     |           |     |      |             |      |                   | GND    | 01      |          |              |                  | TQ2   |                     | 40A                |                    |         |
| 16826   |        | XA240     | 68  |     | XA240     | 74  |      | 16B         | 9    |                   | TWBXA0 | 06      | TD073A   | 01           | 1                | TQ2   | E1                  | 32A                |                    |         |
| 11358   |        | XA240     | 69  |     | XA227     | 01  |      | 16B         | 9    |                   | TD013A | 01      | TD013A   | 00           | 1                | TQ2   | F3                  | 35A                | BYTE 1 XFER BIT    |         |
| 12710   |        | XA240     | 70  |     | XA235     | 76  |      | 16B         | 9    |                   | TE07BQ | 03      | TD073A   | 01           | 2                | TQ2   | E1                  | 33A                |                    |         |
| 16830   |        | XA240     | 71  |     |           |     |      |             |      |                   | TWBXA0 | 10      | TD023A   | 01           | 1                | TQ2   | F2                  | 36A                |                    |         |
| 11398   |        | XA240     | 72  |     | XA228     | 14  |      | 16B         | 9    |                   | TD023A | 01      | TD023A   | 00           | 1                | TQ2   | F2                  | 34A                | BYTE 1 XFER BIT    |         |
| 12645   |        | XA240     | 73  |     | XA235     | 55  |      | 16B         | 9    |                   | TE02BQ | 03      | TD023A   | 01           | 2                | TQ2   | F2                  | 36B                |                    |         |
| 16827   |        | XA240     | 74  |     | XA240     | 78  |      | 16B         | 9    |                   | TWBXA0 | 07      | TD013A   | 01           | 2                | TQ2   | F3                  | 35B                |                    |         |
| 11444   |        | XA240     | 75  |     | XA227     | 19  |      | 16B         | 9    |                   | TD033A | 01      | TD033A   | 00           | 1                | TQ2   | F1                  | 37B                | BYTE 1 XFER BIT    |         |
| 12619   |        | XA240     | 76  |     | XA246     | 08  |      | 16B         | 9    |                   | TE00BQ | 03      | TD003A   | 01           | 1                | TQ2   | F4                  | 37A                |                    |         |
| 16829   |        | XA240     | 77  |     | XA240     | 71  |      | 16B         | 9    |                   | TWBXA0 | 09      | TD033A   | 01           | 1                | TQ2   | F1                  | 38B                |                    |         |
| 16828   |        | XA240     | 78  |     | XA240     | 77  |      | 16B         | 9    |                   | TWBXA0 | 08      | TD003A   | 01           | 2                | TQ2   | F4                  | 38A                |                    |         |
| 12658   |        | XA240     | 79  |     | XA235     | 61  |      | 16B         | 9    |                   | TE03BQ | 03      | TD033A   | 01           | 2                | TQ2   | F1                  | 39B                |                    |         |
| 11315   |        | XA240     | 80  |     | XA228     | 05  |      | 16B         | 9    |                   | TD003A | 01      | TD003A   | 00           | 1                | TQ2   | F4                  | 39A                | BYTE 1 XFER BIT    |         |
| 13192   |        | XA241     | 01  |     |           |     |      |             |      |                   | TF223A | 02      | TE2210   | 01           | 1                | TD4   | A2                  | 02B                |                    |         |
| 02237   |        | XA241     | 02  |     |           |     |      |             |      |                   | GND    | 01      |          |              |                  | TD4   |                     | 01A                |                    |         |
| 01004   |        | XA241     | 03  |     |           |     |      |             |      |                   | DNW    | 01      |          |              |                  | TD4   |                     |                    |                    |         |
| 13194   |        | XA241     | 04  |     |           |     |      |             |      |                   | TF228A | 02      | TE2210   | 01           | 2                | TD4   | A2                  | 04A                |                    |         |
| CONNECTOR XA241 CONTINUED ON THE NEXT PAGE **** |        |           |     |     |           |     |      |             |      |                   |        |         |          |              |                  |       |                     |                    |                    |         |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA241  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 156

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE |       |      |       | SPEC. INST. WIRE | SIGNAL | SEQ NO | EQUATION | TERM | FACTORY | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|------|-------|------|-------|------------------|--------|--------|----------|------|---------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | DI   | GROUP | CODE | COLOR |                  |        |        |          |      |         |                  |       |                     |                    |                    |        |
| 13190         |        | XA241     | 05                              |        |           |     |      |       |      |       |                  | TF222A | 02     | TE2210   | 01   | 3       | TD4              | A2    |                     | 03B                |                    |        |
| 13200         |        | XA241     | 06                              |        |           |     |      |       |      |       |                  | TF233A | 02     | TE2310   | 01   | 1       | TD4              | A1    |                     | 05A                |                    |        |
| 13187         |        | XA241     | 07                              |        | XA232     | 22  |      |       | 16B  | 9     |                  | TF221A | 01     | TE2210   | 01   | 4       | TD4              | A2    |                     | 03A                |                    |        |
| 13195         |        | XA241     | 08                              |        | XA232     | 21  |      |       | 16B  | 9     |                  | TF231A | 01     | TE2310   | 01   | 2       | TD4              | A1    |                     | 06A                |                    |        |
| 12793         |        | XA241     | 09                              |        |           |     |      |       |      |       |                  | TE2210 | 02     | TE2210   | 00   | 1       | TD4              | A2    |                     | 04B                | ORED DATA INPUT    |        |
| 13202         |        | XA241     | 10                              |        |           |     |      |       |      |       |                  | TF238A | 02     | TE2310   | 01   | 3       | TD4              | A1    |                     | 07A                |                    |        |
| 12798         |        | XA241     | 11                              |        |           |     |      |       |      |       |                  | TE2310 | 02     | TE2310   | 00   | 1       | TD4              | A1    |                     | 05B                | ORED DATA INPUT    |        |
| 00448         |        | XA241     | 12                              |        |           |     |      |       |      |       |                  | +5V    | 01     |          |      |         | TD4              |       |                     |                    |                    |        |
| 13198         |        | XA241     | 13                              |        |           |     |      |       |      |       |                  | TF232A | 02     | TE2310   | 01   | 4       | TD4              | A1    |                     | 06B                |                    |        |
| 13178         |        | XA241     | 14                              |        |           |     |      |       |      |       |                  | TF208A | 02     | TE2010   | 01   | 1       | TD4              | B2    |                     | 09A                |                    |        |
| 01005         |        | XA241     | 15                              |        |           |     |      |       |      |       |                  | DNW    | 01     |          |      |         | TD4              |       |                     |                    |                    |        |
| 02238         |        | XA241     | 16                              |        |           |     |      |       |      |       |                  | GND    | 01     |          |      |         | TD4              |       |                     | 20B                |                    |        |
| 01006         |        | XA241     | 17                              |        |           |     |      |       |      |       |                  | DNW    | 01     |          |      |         | TD4              |       |                     |                    |                    |        |
| 13171         |        | XA241     | 18                              |        | XA232     | 06  |      |       | 16B  | 9     |                  | TF201A | 01     | TE2010   | 01   | 2       | TD4              | B2    |                     | 10A                |                    |        |
| 13174         |        | XA241     | 19                              |        |           |     |      |       |      |       |                  | TF202A | 02     | TE2010   | 01   | 3       | TD4              | B2    |                     | 09B                |                    |        |
| 13176         |        | XA241     | 20                              |        |           |     |      |       |      |       |                  | TF203A | 02     | TE2010   | 01   | 4       | TD4              | B2    |                     | 11A                |                    |        |
| 12783         |        | XA241     | 21                              |        |           |     |      |       |      |       |                  | TE2010 | 02     | TE2010   | 00   | 1       | TD4              | B2    |                     | 10B                | ORED DATA INPUT    |        |
| 13186         |        | XA241     | 22                              |        |           |     |      |       |      |       |                  | TF218A | 02     | TE2110   | 01   | 1       | TD4              | B1    |                     | 12A                |                    |        |
| 12788         |        | XA241     | 23                              |        |           |     |      |       |      |       |                  | TE2110 | 02     | TE2110   | 00   | 1       | TD4              | B1    |                     | 11B                | ORED DATA INPUT    |        |
| 13182         |        | XA241     | 24                              |        |           |     |      |       |      |       |                  | TF212A | 02     | TE2110   | 01   | 2       | TD4              | B1    |                     | 13A                |                    |        |
| 13179         |        | XA241     | 25                              |        | XA232     | 09  |      |       | 16B  | 9     |                  | TF211A | 01     | TE2110   | 01   | 3       | TD4              | B1    |                     | 12B                |                    |        |
| 13184         |        | XA241     | 26                              |        |           |     |      |       |      |       |                  | TF213A | 02     | TE2110   | 01   | 4       | TD4              | B1    |                     | 14A                |                    |        |
| 01007         |        | XA241     | 27                              |        |           |     |      |       |      |       |                  | DNW    | 01     |          |      |         | TD4              |       |                     |                    |                    |        |
| 00449         |        | XA241     | 28                              |        |           |     |      |       |      |       |                  | +5V    | 01     |          |      |         | TD4              |       |                     |                    |                    |        |
| 01008         |        | XA241     | 29                              |        |           |     |      |       |      |       |                  | DNW    | 01     |          |      |         | TD4              |       |                     |                    |                    |        |
| 13155         |        | XA241     | 30                              |        | XA233     | 75  |      |       | 16B  | 9     |                  | TF181A | 01     | TE1810   | 01   | 1       | TD4              | C2    |                     | 15A                |                    |        |
| 13158         |        | XA241     | 31                              |        |           |     |      |       |      |       |                  | TF182A | 02     | TE1810   | 01   | 2       | TD4              | C2    |                     | 15B                |                    |        |
| 02239         |        | XA241     | 32                              |        |           |     |      |       |      |       |                  | GND    | 01     |          |      |         | TD4              |       |                     | 21B                |                    |        |
| 12773         |        | XA241     | 33                              |        |           |     |      |       |      |       |                  | TE1810 | 02     | TE1810   | 00   | 1       | TD4              | C2    |                     | 16B                | ORED DATA INPUT    |        |
| 13162         |        | XA241     | 34                              |        |           |     |      |       |      |       |                  | TF188A | 02     | TE1810   | 01   | 3       | TD4              | C2    |                     | 16A                |                    |        |
| 12778         |        | XA241     | 35                              |        |           |     |      |       |      |       |                  | TE1910 | 02     | TE1910   | 00   | 1       | TD4              | C1    |                     | 17B                | ORED DATA INPUT    |        |
| 13160         |        | XA241     | 36                              |        |           |     |      |       |      |       |                  | TF183A | 02     | TE1810   | 01   | 4       | TD4              | C2    |                     | 17A                |                    |        |
| 13166         |        | XA241     | 37                              |        |           |     |      |       |      |       |                  | TF192A | 02     | TE1910   | 01   | 1       | TD4              | C1    |                     | 18B                |                    |        |
| 13163         |        | XA241     | 38                              |        | XA233     | 69  |      |       | 16B  | 9     |                  | TF191A | 01     | TE1910   | 01   | 2       | TD4              | C1    |                     | 18A                |                    |        |
| 01009         |        | XA241     | 39                              |        |           |     |      |       |      |       |                  | DNW    | 01     |          |      |         | TD4              |       |                     |                    |                    |        |
| 13170         |        | XA241     | 40                              |        |           |     |      |       |      |       |                  | TF198A | 02     | TE1910   | 01   | 3       | TD4              | C1    |                     | 19A                |                    |        |
| 01010         |        | XA241     | 41                              |        |           |     |      |       |      |       |                  | DNW    | 01     |          |      |         | TD4              |       |                     |                    |                    |        |
| 13168         |        | XA241     | 42                              |        |           |     |      |       |      |       |                  | TF193A | 02     | TE1910   | 01   | 4       | TD4              | C1    |                     | 20A                |                    |        |
| 13139         |        | XA241     | 43                              |        | XA233     | 66  |      |       | 16B  | 9     |                  | TF161A | 01     | TE1610   | 01   | 1       | TD4              | D2    |                     | 23B                |                    |        |
| 02240         |        | XA241     | 44                              |        |           |     |      |       |      |       |                  | GND    | 01     |          |      |         | TD4              |       |                     | 27A                |                    |        |
| 12762         |        | XA241     | 45                              |        | XA242     | 48  |      |       | 16B  | 9     |                  | TE1610 | 01     | TE1610   | 00   | 1       | TD4              | D2    |                     | 24B                | ORED DATA INPUT    |        |
| 13142         |        | XA241     | 46                              |        |           |     |      |       |      |       |                  | TF162A | 02     | TE1610   | 01   | 2       | TD4              | D2    |                     | 21A                |                    |        |
| 12768         |        | XA241     | 47                              |        |           |     |      |       |      |       |                  | TE1710 | 02     | TE1710   | 00   | 1       | TD4              | D1    |                     | 25B                | ORED DATA INPUT    |        |
| 13146         |        | XA241     | 48                              |        |           |     |      |       |      |       |                  | TF168A | 02     | TE1610   | 01   | 3       | TD4              | D2    |                     | 22A                |                    |        |
| 13147         |        | XA241     | 49                              |        | XA233     | 57  |      |       | 16B  | 9     |                  | TF171A | 01     | TE1710   | 01   | 1       | TD4              | D1    |                     | 26B                |                    |        |
| 13144         |        | XA241     | 50                              |        |           |     |      |       |      |       |                  | TF163A | 02     | TE1610   | 01   | 4       | TD4              | D2    |                     | 23A                |                    |        |
| 01011         |        | XA241     | 51                              |        |           |     |      |       |      |       |                  | DNW    | 01     |          |      |         | TD4              |       |                     |                    |                    |        |
| 13154         |        | XA241     | 52                              |        |           |     |      |       |      |       |                  | TF178A | 02     | TE1710   | 01   | 2       | TD4              | D1    |                     | 24A                |                    |        |
| 01012         |        | XA241     | 53                              |        |           |     |      |       |      |       |                  | DNW    | 01     |          |      |         | TD4              |       |                     |                    |                    |        |
| 13152         |        | XA241     | 54                              |        |           |     |      |       |      |       |                  | TF173A | 02     | TE1710   | 01   | 3       | TD4              | D1    |                     | 25A                |                    |        |
| CONNECTOR     |        | XA241     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |       |      |       |                  |        |        |          |      |         |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA241  
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| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13125   |        | XA241     | 55  |        | XA233     | 52  |             | 16B  | 9     |       | TF141A | 01     | TE1410   | 01   | 1      | TD4              | E2    |                     | 29B                |                    |        |
| 13150   |        | XA241     | 56  |        |           |     |             |      |       |       | TF172A | 02     | TE1710   | 01   | 4      | TD4              | D1    |                     | 26A                |                    |        |
| 12752   |        | XA241     | 57  |        | XA242     | 62  |             | 16B  | 9     |       | TE1410 | 01     | TE1410   | 00   | 1      | TD4              | E2    |                     | 30B                | ORED DATA INPUT    |        |
| 02241   |        | XA241     | 58  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TD4              |       |                     | 40A                |                    |        |
| 12758   |        | XA241     | 59  |        |           |     |             |      |       |       | TE1510 | 02     | TE1510   | 00   | 1      | TD4              | E1    |                     | 31B                | ORED DATA INPUT    |        |
| 13128   |        | XA241     | 60  |        |           |     |             |      |       |       | TF142A | 02     | TE1410   | 01   | 2      | TD4              | E2    |                     | 28A                |                    |        |
| 13133   |        | XA241     | 61  |        | XA233     | 45  |             | 16B  | 9     |       | TF151A | 01     | TE1510   | 01   | 1      | TD4              | E1    |                     | 32B                |                    |        |
| 13132   |        | XA241     | 62  |        |           |     |             |      |       |       | TF148A | 02     | TE1410   | 01   | 3      | TD4              | E2    |                     | 29A                |                    |        |
| 01013   |        | XA241     | 63  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 13130   |        | XA241     | 64  |        |           |     |             |      |       |       | TF143A | 02     | TE1410   | 01   | 4      | TD4              | E2    |                     | 30A                |                    |        |
| 01014   |        | XA241     | 65  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 13136   |        | XA241     | 66  |        |           |     |             |      |       |       | TF153A | 02     | TE1510   | 01   | 2      | TD4              | E1    |                     | 31A                |                    |        |
| 02242   |        | XA241     | 67  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TD4              |       |                     | 40B                |                    |        |
| 13138   |        | XA241     | 68  |        |           |     |             |      |       |       | TF158A | 02     | TE1510   | 01   | 3      | TD4              | E1    |                     | 32A                |                    |        |
| 12742   |        | XA241     | 69  |        | XA242     | 71  |             | 16B  | 9     |       | TE1210 | 01     | TE1210   | 00   | 1      | TD4              | F2    |                     | 35A                | ORED DATA INPUT    |        |
| 09600   |        | XA241     | 70  |        | XA218     | 75  |             | 16B  | 9     |       | TF152A | 01     | TE1510   | 01   | 4      | TD4              | E1    |                     | 33A                | C13                |        |
| 13116   |        | XA241     | 71  |        |           |     |             |      |       |       | TF128A | 02     | TE1210   | 01   | 1      | TD4              | F2    |                     | 36A                |                    |        |
| 13109   |        | XA241     | 72  |        | XA233     | 38  |             | 16B  | 9     |       | TF121A | 01     | TE1210   | 01   | 2      | TD4              | F2    |                     | 34A                |                    |        |
| 13112   |        | XA241     | 73  |        |           |     |             |      |       |       | TF122A | 02     | TE1210   | 01   | 3      | TD4              | F2    |                     | 36B                |                    |        |
| 13114   |        | XA241     | 74  |        |           |     |             |      |       |       | TF123A | 02     | TE1210   | 01   | 4      | TD4              | F2    |                     | 35B                |                    |        |
| 13124   |        | XA241     | 75  |        |           |     |             |      |       |       | TF138A | 02     | TE1310   | 01   | 1      | TD4              | F1    |                     | 37B                |                    |        |
| 12747   |        | XA241     | 76  |        | XA242     | 77  |             | 16B  | 9     |       | TE1310 | 01     | TE1310   | 00   | 1      | TD4              | F1    |                     | 37A                | ORED DATA INPUT    |        |
| 13120   |        | XA241     | 77  |        |           |     |             |      |       |       | TF132A | 02     | TE1310   | 01   | 2      | TD4              | F1    |                     | 38B                |                    |        |
| 13117   |        | XA241     | 78  |        | XA233     | 33  |             | 16B  | 9     |       | TF131A | 01     | TE1310   | 01   | 3      | TD4              | F1    |                     | 38A                |                    |        |
| 13122   |        | XA241     | 79  |        |           |     |             |      |       |       | TF133A | 02     | TE1310   | 01   | 4      | TD4              | F1    |                     | 39B                |                    |        |
| 01015   |        | XA241     | 80  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 12443   |        | XA242     | 01  |        | XA242     | 10  |             | 16B  | 9     |       | TECKBA | 02     | TE228N   | 01   | 1      | TDD              | BN    |                     | 02B                |                    |        |
| 02243   |        | XA242     | 02  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 01B                |                    |        |
| 04972   |        | XA242     | 03  |        | XA242     | 17  |             | 16B  | 9     |       | SPI004 | 07     | TE228Q   | 01   | 1      | TDD              | BQ    |                     | 02A                |                    |        |
| 05330   |        | XA242     | 04  |        | XA247     | 05  |             | 16B  | 9     |       | SPI016 | 26     | TE228P   | 01   | 1      | TDD              | BP    |                     | 04A                |                    |        |
| 12792   |        | XA242     | 05  |        | XA241     | 09  |             | 16B  | 9     |       | TE2210 | 01     | TE228I   | 01   | 1      | TDD              | BI    |                     | 03B                |                    |        |
| 05426   |        | XA242     | 06  |        | XA121     | 05  |             | 16B  | 9     |       | SPI019 | 27     | TE238P   | 01   | 1      | TDD              | AP    |                     | 05A                |                    |        |
| 12791   |        | XA242     | 07  |        |           |     |             |      |       |       | TE228Q | 03     | TE228Q   | 03   | 1      | TDD              | BQ    |                     | 03A                | BIT 22 I/O REG S   |        |
| 12797   |        | XA242     | 08  |        | XA241     | 11  |             | 16B  | 9     |       | TE2310 | 01     | TE238I   | 01   | 1      | TDD              | AI    |                     | 06A                |                    |        |
| 20495   |        | XA242     | 09  |        |           |     |             |      |       | M     | TE228P | 01     | TE228P   | 00   | 1      | TDD              | BP    |                     | 04B                |                    |        |
| 12444   |        | XA242     | 10  |        | XA242     | 14  |             | 16B  | 9     |       | TECKBA | 03     | TE238N   | 01   | 1      | TDD              | AN    |                     | 07A                |                    |        |
| 20496   |        | XA242     | 11  |        |           |     |             |      |       | M     | TE238P | 01     | TE238P   | 00   | 1      | TDD              | AP    |                     | 05B                |                    |        |
| 00450   |        | XA242     | 12  |        |           |     |             |      |       |       | +5V    | 01     |          |      |        | TDD              |       |                     |                    |                    |        |
| 12796   |        | XA242     | 13  |        |           |     |             |      |       |       | TE238Q | 03     | TE238Q   | 00   | 1      | TDD              | AQ    |                     | 06B                | BIT 23 I/O REG S   |        |
| 12445   |        | XA242     | 14  |        | XA242     | 26  |             | 16B  | 9     |       | TECKBA | 04     | TE208N   | 01   | 1      | TDD              | DN    |                     | 09A                |                    |        |
| 05371   |        | XA242     | 15  |        | XA242     | 27  |             | 16B  | 9     |       | SPI018 | 07     | TE238Q   | 01   | 1      | TDD              | AQ    |                     | 07B                |                    |        |
| 02244   |        | XA242     | 16  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 20B                |                    |        |
| 04973   |        | XA242     | 17  |        | XA242     | 29  |             | 16B  | 9     |       | SPI004 | 08     | TE208Q   | 01   | 1      | TDD              | DQ    |                     | 08B                |                    |        |
| 12782   |        | XA242     | 18  |        | XA241     | 21  |             | 16B  | 9     |       | TE2010 | 01     | TE208I   | 01   | 1      | TDD              | DI    |                     | 10A                |                    |        |
| 12781   |        | XA242     | 19  |        |           |     |             |      |       |       | TE208Q | 03     | TE208Q   | 00   | 1      | TDD              | DQ    |                     | 09B                | BIT 20 I/O REG S   |        |
| 05329   |        | XA242     | 20  |        | XA242     | 04  |             | 16B  | 9     |       | SPI016 | 25     | TE208P   | 01   | 1      | TDD              | DP    |                     | 11A                |                    |        |
| 20493   |        | XA242     | 21  |        |           |     |             |      |       | M     | TE208P | 01     | TE208P   | 00   | 1      | TDD              | DP    |                     | 10B                |                    |        |
| 05415   |        | XA242     | 22  |        | XA244     | 15  |             | 16B  | 9     |       | SPI019 | 16     | TE218P   | 01   | 1      | TDD              | CP    |                     | 12A                |                    |        |
| CONNECTOR XA242 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA242  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 158

| RECORD NUMBER                                   | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SFG NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SIZE | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20494   |        | XA242     | 23  |      |        |           |     |      |             |      |       |       | TE218P | 01     | TE218P   | 00   | 1      | TDD              | CP    |                     | 11B                |                    |        |
| 12787   |        | XA242     | 24  |      | XA241  | 23        |     |      |             | 168  | 9     |       | TE2110 | 01     | TE218I   | 01   | 1      | TDD              | CI    |                     | 13A                |                    |        |
| 12785   |        | XA242     | 25  |      | XA239  | 41        |     |      |             | 168  | 9     |       | TE21BQ | 02     | TE218Q   | 00   | 1      | TDD              | CQ    |                     | 12B                | BIT 21 I/O REG S   |        |
| 12446   |        | XA242     | 26  |      | XA242  | 30        |     |      |             | 168  | 9     |       | TECKBA | 05     | TE218N   | 01   | 1      | TDD              | CN    |                     | 14A                |                    |        |
| 05372   |        | XA242     | 27  |      | XA242  | 39        |     |      |             | 168  | 9     |       | SPI018 | 08     | TE218Q   | 01   | 1      | TDD              | CQ    |                     | 13B                |                    |        |
| 00451   |        | XA242     | 28  |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | TDD              |       |                     |                    |                    |        |
| 04974   |        | XA242     | 29  |      | XA242  | 65        |     |      |             | 168  | 9     |       | SPI004 | 09     | TE188Q   | 01   | 1      | TDD              | FQ    |                     | 14B                |                    |        |
| 12447   |        | XA242     | 30  |      | XA242  | 42        |     |      |             | 168  | 9     |       | TECKBA | 06     | TE188N   | 01   | 1      | TDD              | FN    |                     | 15A                |                    |        |
| 12770   |        | XA242     | 31  |      | XA240  | 20        |     |      |             | 168  | 9     |       | TE188Q | 02     | TE188Q   | 00   | 1      | TDD              | FQ    |                     | 15B                | BIT 18 I/O REG S   |        |
| 02245   |        | XA242     | 32  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 21B                |                    |        |
| 20491   |        | XA242     | 33  |      |        |           |     |      |             |      |       |       | TE188P | 01     | TE188P   | 00   | 1      | TDD              | FP    |                     | 16B                |                    |        |
| 12772   |        | XA242     | 34  |      | XA241  | 33        |     |      |             | 168  | 9     |       | TE1810 | 01     | TE188I   | 01   | 1      | TDD              | FI    |                     | 16A                |                    |        |
| 20492   |        | XA242     | 35  |      |        |           |     |      |             |      |       |       | TE198P | 01     | TE198P   | 00   | 1      | TDD              | EP    |                     | 17B                |                    |        |
| 05328   |        | XA242     | 36  |      | XA242  | 20        |     |      |             | 168  | 9     |       | SPI016 | 24     | TE188P   | 01   | 1      | TDD              | FP    |                     | 17A                |                    |        |
| 12775   |        | XA242     | 37  |      | XA240  | 24        |     |      |             | 168  | 9     |       | TE198Q | 02     | TE198Q   | 00   | 1      | TDD              | EQ    |                     | 18B                | BIT 19 I/O REG S   |        |
| 05414   |        | XA242     | 38  |      | XA242  | 22        |     |      |             | 168  | 9     |       | SPI019 | 15     | TE198P   | 01   | 1      | TDD              | EP    |                     | 18A                |                    |        |
| 05373   |        | XA242     | 39  |      | XA242  | 51        |     |      |             | 168  | 9     |       | SPI018 | 09     | TE198Q   | 01   | 1      | TDD              | EQ    |                     | 19B                |                    |        |
| 12777   |        | XA242     | 40  |      | XA241  | 35        |     |      |             | 168  | 9     |       | TE1910 | 01     | TE198I   | 01   | 1      | TDD              | EI    |                     | 19A                |                    |        |
| 04978   |        | XA242     | 41  |      | XA238  | 41        |     |      |             | 168  | 9     |       | SPI004 | 13     | TE168Q   | 01   | 1      | TDD              | HQ    |                     | 22B                |                    |        |
| 12448   |        | XA242     | 42  |      | XA237  | 72        |     |      |             | 168  | 9     |       | TECKBA | 07     | TE198N   | 01   | 1      | TDD              | EN    |                     | 20A                |                    |        |
| 12761   |        | XA242     | 43  |      |        |           |     |      |             |      |       |       | TE168Q | 03     | TE168Q   | 00   | 1      | TDD              | HQ    |                     | 23B                | BIT 16 I/O REG S   |        |
| 02246   |        | XA242     | 44  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 27A                |                    |        |
| 20489   |        | XA242     | 45  |      |        |           |     |      |             |      |       |       | TE168P | 01     | TE168P   | 00   | 1      | TDD              | HP    |                     | 24B                |                    |        |
| 12451   |        | XA242     | 46  |      | XA242  | 56        |     |      |             | 168  | 9     |       | TECKCA | 02     | TE168N   | 01   | 1      | TDD              | HN    |                     | 21A                |                    |        |
| 20490   |        | XA242     | 47  |      |        |           |     |      |             |      |       |       | TE178P | 01     | TE178P   | 00   | 1      | TDD              | GP    |                     | 25B                |                    |        |
| 12763   |        | XA242     | 48  |      |        |           |     |      |             |      |       |       | TE1610 | 02     | TE168I   | 01   | 1      | TDD              | HI    |                     | 22A                |                    |        |
| 12766   |        | XA242     | 49  |      |        |           |     |      |             |      |       |       | TE178Q | 03     | TE178Q   | 00   | 1      | TDD              | GQ    |                     | 26B                | BIT 17 I/O REG S   |        |
| 05327   |        | XA242     | 50  |      | XA242  | 36        |     |      |             | 168  | 9     |       | SPI016 | 23     | TE168P   | 01   | 1      | TDD              | HP    |                     | 23A                |                    |        |
| 05374   |        | XA242     | 51  |      | XA242  | 80        |     |      |             | 168  | 9     |       | SPI018 | 10     | TE178Q   | 01   | 1      | TDD              | GQ    |                     | 27B                |                    |        |
| 05413   |        | XA242     | 52  |      | XA242  | 38        |     |      |             | 168  | 9     |       | SPI019 | 14     | TE178P   | 01   | 1      | TDD              | GP    |                     | 24A                |                    |        |
| 04977   |        | XA242     | 53  |      | XA242  | 41        |     |      |             | 168  | 9     |       | SPI004 | 12     | TE148Q   | 01   | 1      | TDD              | KQ    |                     | 28B                |                    |        |
| 12767   |        | XA242     | 54  |      | XA241  | 47        |     |      |             | 168  | 9     |       | TE1710 | 01     | TE178I   | 01   | 1      | TDD              | GI    |                     | 25A                |                    |        |
| 12751   |        | XA242     | 55  |      |        |           |     |      |             |      |       |       | TE148Q | 03     | TE148Q   | 00   | 1      | TDD              | KQ    |                     | 29B                | BIT 14 I/O REG S   |        |
| 12452   |        | XA242     | 56  |      | XA242  | 60        |     |      |             | 168  | 9     |       | TECKCA | 03     | TE178N   | 01   | 1      | TDD              | GN    |                     | 26A                |                    |        |
| 20487   |        | XA242     | 57  |      |        |           |     |      |             |      |       |       | TE148P | 01     | TE148P   | 00   | 1      | TDD              | KP    |                     | 30B                |                    |        |
| 02247   |        | XA242     | 58  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 40A                |                    |        |
| 20488   |        | XA242     | 59  |      |        |           |     |      |             |      |       |       | TE158P | 01     | TE158P   | 00   | 1      | TDD              | JP    |                     | 31B                |                    |        |
| 12453   |        | XA242     | 60  |      | XA242  | 70        |     |      |             | 168  | 9     |       | TECKCA | 04     | TE148N   | 01   | 1      | TDD              | KN    |                     | 28A                |                    |        |
| 12756   |        | XA242     | 61  |      |        |           |     |      |             |      |       |       | TE158Q | 03     | TE158Q   | 00   | 1      | TDD              | JQ    |                     | 32B                | BIT 15 I/O REG S   |        |
| 12753   |        | XA242     | 62  |      |        |           |     |      |             |      |       |       | TE1410 | 02     | TE148I   | 01   | 1      | TDD              | KI    |                     | 29A                |                    |        |
| 05378   |        | XA242     | 63  |      | XA238  | 65        |     |      |             | 168  | 9     |       | SPI018 | 14     | TE158Q   | 01   | 1      | TDD              | JQ    |                     | 33B                |                    |        |
| 05326   |        | XA242     | 64  |      | XA242  | 50        |     |      |             | 168  | 9     |       | SPI016 | 22     | TE148P   | 01   | 1      | TDD              | KP    |                     | 30A                |                    |        |
| 04975   |        | XA242     | 65  |      | XA244  | 53        |     |      |             | 168  | 9     |       | SPI004 | 10     | TE128Q   | 01   | 1      | TDD              | MQ    |                     | 34B                |                    |        |
| 05412   |        | XA242     | 66  |      | XA242  | 52        |     |      |             | 168  | 9     |       | SPI019 | 13     | TE158P   | 01   | 1      | TDD              | JP    |                     | 31A                |                    |        |
| 02248   |        | XA242     | 67  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 40B                |                    |        |
| 12757   |        | XA242     | 68  |      | XA241  | 59        |     |      |             | 168  | 9     |       | TE1510 | 01     | TE158I   | 01   | 1      | TDD              | JI    |                     | 32A                |                    |        |
| 20485   |        | XA242     | 69  |      |        |           |     |      |             |      |       |       | TE128P | 01     | TE128P   | 00   | 1      | TDD              | MP    |                     | 35A                |                    |        |
| 12454   |        | XA242     | 70  |      | XA242  | 72        |     |      |             | 168  | 9     |       | TECKCA | 05     | TE158N   | 01   | 1      | TDD              | JN    |                     | 33A                |                    |        |
| 12743   |        | XA242     | 71  |      |        |           |     |      |             |      |       |       | TE1210 | 02     | TE128I   | 01   | 1      | TDD              | MI    |                     | 36A                |                    |        |
| 12455   |        | XA242     | 72  |      | XA242  | 79        |     |      |             | 168  | 9     |       | TECKCA | 06     | TE128N   | 01   | 1      | TDD              | MN    |                     | 34A                |                    |        |
| CONNECTOR XA242 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA242  
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| RECORD NUMBER                                   | FROM   |           |     |        | TO     |           |     |        | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|--------|-----------|-----|--------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH FTG | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05323   |        | XA242     | 73  |        |        |           |     |        |             |      |       |       | SPI016 | 19     | TE12BP   | 01   | 1      | TDD              | MP    |                     | 36B                |                    |        |
| 12741   |        | XA242     | 74  |        | XA244  | 64        |     |        |             | 16B  | 9     |       | TE12BQ | 03     | TE12BQ   | 00   | 1      | TDD              | MQ    |                     | 35B                | BIT 12 I/O REG S   |        |
| 05406   |        | XA242     | 75  |        |        |           |     |        |             |      |       |       | SPI019 | 07     | TE13BP   | 01   | 1      | TDD              | LP    |                     | 37B                |                    |        |
| 20486   |        | XA242     | 76  |        | XA244  | 75        |     |        |             |      |       |       | TE13BP | 01     | TE13BP   | 00   | 1      | TDD              | LP    |                     | 37A                |                    |        |
| 12748   |        | XA242     | 77  |        |        |           |     |        |             |      |       |       | TE1310 | 02     | TE13B1   | 01   | 1      | TDD              | LI    |                     | 38B                |                    |        |
| 12746   |        | XA242     | 78  |        |        |           |     |        |             |      |       |       | TE13BQ | 03     | TE13BQ   | 00   | 1      | TDD              | LQ    |                     | 38A                | BIT 13 I/O REG S   |        |
| 12456   |        | XA242     | 79  |        | XA251  | 79        |     |        |             | 16B  | 9     |       | TECKCA | 07     | TE13BN   | 01   | 1      | TDD              | LN    |                     | 39B                |                    |        |
| 05375   |        | XA242     | 80  |        | XA244  | 80        |     |        |             | 16B  | 9     |       | SPI018 | 11     | TE13BQ   | 01   | 1      | TDD              | LQ    |                     | 39A                |                    |        |
| 12958   |        | XA243     | 01  |        |        |           |     |        |             |      |       |       | TF005A | 02     | TE0010   | 01   | 1      | TS8              | A1    |                     | 02B                |                    |        |
| 02249   |        | XA243     | 02  |        |        |           |     |        |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     | 01A                |                    |        |
| 01016   |        | XA243     | 03  |        |        |           |     |        |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12954   |        | XA243     | 04  |        |        |           |     |        |             |      |       |       | TF003A | 02     | TE0010   | 01   | 2      | TS8              | A1    |                     | 04A                |                    |        |
| 12964   |        | XA243     | 05  |        |        |           |     |        |             |      |       |       | TF008A | 02     | TE0010   | 01   | 3      | TS8              | A1    |                     | 03B                |                    |        |
| 12960   |        | XA243     | 06  |        |        |           |     |        |             |      |       |       | TF006A | 02     | TE0010   | 01   | 4      | TS8              | A1    |                     | 05A                |                    |        |
| 12961   |        | XA243     | 07  |        | XA219  | 06        |     |        |             | 16B  | 9     |       | TF007A | 01     | TE0010   | 01   | 5      | TS8              | A1    |                     | 03A                |                    |        |
| 12955   |        | XA243     | 08  |        | XA231  | 01        |     |        |             | 16B  | 9     |       | TF004A | 01     | TE0010   | 01   | 6      | TS8              | A1    |                     | 06A                |                    |        |
| 01017   |        | XA243     | 09  |        |        |           |     |        |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12951   |        | XA243     | 10  |        | XA234  | 30        |     |        |             | 16B  | 9     |       | TF002A | 01     | TE0010   | 01   | 7      | TS8              | A1    |                     | 07A                |                    |        |
| 12623   |        | XA243     | 11  |        |        |           |     |        |             |      |       |       | TE0010 | 02     | TE0010   | 00   | 1      | TS8              | A1    |                     | 05B                | ORED DATA INPUT    |        |
| 00452   |        | XA243     | 12  |        |        |           |     |        |             |      |       |       | +5V    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12950   |        | XA243     | 13  |        |        |           |     |        |             |      |       |       | TF001A | 02     | TE0010   | 01   | 8      | TS8              | A1    |                     | 06B                |                    |        |
| 12965   |        | XA243     | 14  |        | XA234  | 33        |     |        |             | 16B  | 9     |       | TF011A | 01     | TE0110   | 01   | 1      | TS8              | B1    |                     | 09A                |                    |        |
| 01018   |        | XA243     | 15  |        |        |           |     |        |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 02250   |        | XA243     | 16  |        |        |           |     |        |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     | 21B                |                    |        |
| 01019   |        | XA243     | 17  |        |        |           |     |        |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12972   |        | XA243     | 18  |        |        |           |     |        |             |      |       |       | TF014A | 02     | TE0110   | 01   | 2      | TS8              | B1    |                     | 10A                |                    |        |
| 12977   |        | XA243     | 19  |        | XA219  | 01        |     |        |             | 16B  | 9     |       | TF017A | 01     | TE0110   | 01   | 3      | TS8              | B1    |                     | 09B                |                    |        |
| 12968   |        | XA243     | 20  |        |        |           |     |        |             |      |       |       | TF012A | 02     | TE0110   | 01   | 4      | TS8              | B1    |                     | 11A                |                    |        |
| 01020   |        | XA243     | 21  |        |        |           |     |        |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12976   |        | XA243     | 22  |        |        |           |     |        |             |      |       |       | TF016A | 02     | TE0110   | 01   | 5      | TS8              | B1    |                     | 12A                |                    |        |
| 12635   |        | XA243     | 23  |        | XA244  | 05        |     |        |             | 16B  | 9     |       | TE0110 | 01     | TE0110   | 00   | 1      | TS8              | B1    |                     | 11B                | ORED DATA INPUT    |        |
| 12980   |        | XA243     | 24  |        |        |           |     |        |             |      |       |       | TF018A | 02     | TE0110   | 01   | 6      | TS8              | B1    |                     | 13A                |                    |        |
| 12969   |        | XA243     | 25  |        | XA230  | 09        |     |        |             | 16B  | 9     |       | TF013A | 01     | TE0110   | 01   | 7      | TS8              | B1    |                     | 12B                |                    |        |
| 12973   |        | XA243     | 26  |        | XA230  | 57        |     |        |             | 16B  | 9     |       | TF015A | 01     | TE0110   | 01   | 8      | TS8              | B1    |                     | 14A                |                    |        |
| 01021   |        | XA243     | 27  |        |        |           |     |        |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 00453   |        | XA243     | 28  |        |        |           |     |        |             |      |       |       | +5V    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 01022   |        | XA243     | 29  |        |        |           |     |        |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12989   |        | XA243     | 30  |        | XA231  | 75        |     |        |             | 16B  | 9     |       | TF025A | 01     | TE0210   | 01   | 1      | TS8              | C1    |                     | 15A                |                    |        |
| 12981   |        | XA243     | 31  |        | XA234  | 52        |     |        |             | 16B  | 9     |       | TF021A | 01     | TE0210   | 01   | 2      | TS8              | C1    |                     | 15B                |                    |        |
| 02251   |        | XA243     | 32  |        |        |           |     |        |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     | 27A                |                    |        |
| 01023   |        | XA243     | 33  |        |        |           |     |        |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12992   |        | XA243     | 34  |        |        |           |     |        |             |      |       |       | TF026A | 02     | TE0210   | 01   | 3      | TS8              | C1    |                     | 16A                |                    |        |
| 12648   |        | XA243     | 35  |        | XA244  | 24        |     |        |             | 16B  | 9     |       | TE0210 | 01     | TE0210   | 00   | 1      | TS8              | C1    |                     | 17B                | ORED DATA INPUT    |        |
| 12984   |        | XA243     | 36  |        |        |           |     |        |             |      |       |       | TF022A | 02     | TE0210   | 01   | 4      | TS8              | C1    |                     | 17A                |                    |        |
| 12996   |        | XA243     | 37  |        |        |           |     |        |             |      |       |       | TF028A | 02     | TE0210   | 01   | 5      | TS8              | C1    |                     | 18B                |                    |        |
| 12988   |        | XA243     | 38  |        |        |           |     |        |             |      |       |       | TF024A | 02     | TE0210   | 01   | 6      | TS8              | C1    |                     | 18A                |                    |        |
| 01024   |        | XA243     | 39  |        |        |           |     |        |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12993   |        | XA243     | 40  |        | XA219  | 22        |     |        |             | 16B  | 9     |       | TF027A | 01     | TE0210   | 01   | 7      | TS8              | C1    |                     | 19A                |                    |        |
| CONNECTOR XA243 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |           |     |        |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA243  
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| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE   |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|--------|-------------|------|-------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | DRG NO | MULTI GROUP | CODE | COLOR |        |        |          |             |                  |       |                     |                    |                    |        |
| 01025   |        | XA243     | 41  |        |           |     |        |             |      |       |        | DNW    | 01       |             |                  |       |                     |                    |                    |        |
| 12985   |        | XA243     | 42  |        | XA231     | 22  |        |             | 16B  | 9     |        | TF023A | 01       | TE0210      | 01               | 8     | TS8                 | C1                 |                    | 20A    |
| 13005   |        | XA243     | 43  |        | XA230     | 63  |        |             | 16B  | 9     |        | TF035A | 01       | TE0310      | 01               | 1     | TS8                 | D1                 |                    | 23B    |
| 02252   |        | XA243     | 44  |        |           |     |        |             |      |       |        | GND    | 01       |             |                  |       |                     |                    |                    | 40A    |
| 01026   |        | XA243     | 45  |        |           |     |        |             |      |       |        | DNW    | 01       |             |                  |       |                     |                    |                    |        |
| 13000   |        | XA243     | 46  |        |           |     |        |             |      |       |        | TF032A | 02       | TE0310      | 01               | 2     | TS8                 | D1                 |                    | 21A    |
| 12661   |        | XA243     | 47  |        | XA244     | 18  |        |             | 16B  | 9     |        | TE0310 | 01       | TE0310      | 00               | 1     | TS8                 | D1                 |                    | 25B    |
| 12997   |        | XA243     | 48  |        | XA234     | 45  |        |             | 16B  | 9     |        | TF031A | 01       | TE0310      | 01               | 3     | TS8                 | D1                 |                    | 22A    |
| 13012   |        | XA243     | 49  |        |           |     |        |             |      |       |        | TF038A | 02       | TE0310      | 01               | 4     | TS8                 | D1                 |                    | 26B    |
| 13008   |        | XA243     | 50  |        |           |     |        |             |      |       |        | TF036A | 02       | TE0310      | 01               | 5     | TS8                 | D1                 |                    | 23A    |
| 01027   |        | XA243     | 51  |        |           |     |        |             |      |       |        | DNW    | 01       |             |                  |       |                     |                    |                    |        |
| 13001   |        | XA243     | 52  |        | XA230     | 21  |        |             | 16B  | 9     |        | TF033A | 01       | TE0310      | 01               | 6     | TS8                 | D1                 |                    | 24A    |
| 01028   |        | XA243     | 53  |        |           |     |        |             |      |       |        | DNW    | 01       |             |                  |       |                     |                    |                    |        |
| 13009   |        | XA243     | 54  |        | XA219     | 14  |        |             | 16B  | 9     |        | TF037A | 01       | TE0310      | 01               | 7     | TS8                 | D1                 |                    | 25A    |
| 13026   |        | XA243     | 55  |        |           |     |        |             |      |       |        | TF047A | 02       | TE0410      | 01               | 1     | TS8                 | E1                 |                    | 29B    |
| 13004   |        | XA243     | 56  |        |           |     |        |             |      |       |        | TF034A | 02       | TE0310      | 01               | 8     | TS8                 | D1                 |                    | 26A    |
| 01029   |        | XA243     | 57  |        |           |     |        |             |      |       |        | DNW    | 01       |             |                  |       |                     |                    |                    |        |
| 02253   |        | XA243     | 58  |        |           |     |        |             |      |       |        | GND    | 01       |             |                  |       |                     |                    |                    |        |
| 12674   |        | XA243     | 59  |        | XA244     | 40  |        |             | 16B  | 9     |        | TE0410 | 01       | TE0410      | 00               | 1     | TS8                 | E1                 |                    | 31B    |
| 13017   |        | XA243     | 60  |        | XA231     | 38  |        |             | 16B  | 9     |        | TF043A | 01       | TE0410      | 01               | 2     | TS8                 | E1                 |                    | 28A    |
| 13023   |        | XA243     | 61  |        | XA225     | 66  |        |             | 16B  | 9     |        | TF046A | 01       | TE0410      | 01               | 3     | TS8                 | E1                 |                    | 32B    |
| 13013   |        | XA243     | 62  |        | XA234     | 66  |        |             | 16B  | 9     |        | TF041A | 01       | TE0410      | 01               | 4     | TS8                 | E1                 |                    | 29A    |
| 01030   |        | XA243     | 63  |        |           |     |        |             |      |       |        | DNW    | 01       |             |                  |       |                     |                    |                    |        |
| 13016   |        | XA243     | 64  |        |           |     |        |             |      |       |        | TF042A | 02       | TE0410      | 01               | 5     | TS8                 | E1                 |                    | 30A    |
| 01031   |        | XA243     | 65  |        |           |     |        |             |      |       |        | DNW    | 01       |             |                  |       |                     |                    |                    |        |
| 13028   |        | XA243     | 66  |        |           |     |        |             |      |       |        | TF048A | 02       | TE0410      | 01               | 6     | TS8                 | E1                 |                    | 31A    |
| 02254   |        | XA243     | 67  |        |           |     |        |             |      |       |        | GND    | 01       |             |                  |       |                     |                    |                    |        |
| 13022   |        | XA243     | 68  |        |           |     |        |             |      |       |        | TF045A | 02       | TE0410      | 01               | 7     | TS8                 | E1                 |                    | 32A    |
| 01032   |        | XA243     | 69  |        |           |     |        |             |      |       |        | DNW    | 01       |             |                  |       |                     |                    |                    |        |
| 13020   |        | XA243     | 70  |        |           |     |        |             |      |       |        | TF044A | 02       | TE0410      | 01               | 8     | TS8                 | E1                 |                    | 33A    |
| 13029   |        | XA243     | 71  |        | XA234     | 57  |        |             | 16B  | 9     |        | TF051A | 01       | TE0510      | 01               | 1     | TS8                 | F1                 |                    | 36A    |
| 13042   |        | XA243     | 72  |        |           |     |        |             |      |       |        | TF057A | 02       | TE0510      | 01               | 2     | TS8                 | F1                 |                    | 34A    |
| 13032   |        | XA243     | 73  |        |           |     |        |             |      |       |        | TF052A | 02       | TE0510      | 01               | 3     | TS8                 | F1                 |                    | 36B    |
| 13039   |        | XA243     | 74  |        | XA225     | 60  |        |             | 16B  | 9     |        | TF056A | 01       | TE0510      | 01               | 4     | TS8                 | F1                 |                    | 35B    |
| 13033   |        | XA243     | 75  |        | XA230     | 33  |        |             | 16B  | 9     |        | TF053A | 01       | TE0510      | 01               | 5     | TS8                 | F1                 |                    | 37B    |
| 12687   |        | XA243     | 76  |        | XA244     | 34  |        |             | 16B  | 9     |        | TE0510 | 01       | TE0510      | 00               | 1     | TS8                 | F1                 |                    | 37A    |
| 13044   |        | XA243     | 77  |        |           |     |        |             |      |       |        | TF058A | 02       | TE0510      | 01               | 6     | TS8                 | F1                 |                    | 38B    |
| 13038   |        | XA243     | 78  |        |           |     |        |             |      |       |        | TF055A | 02       | TE0510      | 01               | 7     | TS8                 | F1                 |                    | 38A    |
| 13036   |        | XA243     | 79  |        |           |     |        |             |      |       |        | TF054A | 02       | TE0510      | 01               | 8     | TS8                 | F1                 |                    | 39B    |
| 01033   |        | XA243     | 80  |        |           |     |        |             |      |       |        | DNW    | 01       |             |                  |       |                     |                    |                    |        |
| 12463   |        | XA244     | 01  |        | XA244     | 14  |        |             | 16B  | 9     |        | TE018N | 02       | TE018N      | 01               | 1     | TDD                 | BN                 |                    | 02B    |
| 02255   |        | XA244     | 02  |        |           |     |        |             |      |       |        | GND    | 01       |             |                  |       |                     |                    |                    | 01B    |
| 12638   |        | XA244     | 03  |        |           |     |        |             |      |       |        | TE014A | 02       | TE018Q      | 01               | 1     | TDD                 | BQ                 |                    | 02A    |
| 12546   |        | XA244     | 04  |        | XA244     | 20  |        |             | 16B  | 9     |        | TERSAA | 02       | TE018P      | 01               | 1     | TDD                 | BP                 |                    | 04A    |
| 12636   |        | XA244     | 05  |        |           |     |        |             |      |       |        | TE0110 | 02       | TE018I      | 01               | 1     | TDD                 | BI                 |                    | 03B    |
| 14169   |        | XA244     | 06  |        | XA115     | 46  |        |             | 16B  | 9     |        | TMRITA | 01       | TITIMI      | 01               | 1     | TDD                 | AP                 |                    | 05A    |
| 12631   |        | XA244     | 07  |        | XA240     | 65  |        |             | 16B  | 9     |        | TE018Q | 02       | TE018Q      | 00               | 1     | TDD                 | BQ                 |                    | 03A    |
| 13447   |        | XA244     | 08  |        |           |     |        |             |      |       |        | TITI10 | 02       | TITIMI      | 01               | 1     | TDD                 | AI                 |                    | 06A    |
| CONNECTOR (XA244) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |        |             |      |       |        |        |          |             |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA244  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 161

| RECORD NUMBER                                   | FROM   |           |     | TO | WIRE   |           |     |      | SFC INST WIRE | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |             |
|---|--------|-----------|-----|----|--------|-----------|-----|------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|-------------|
|   | PREFIX | CONNECTOR | PIN |    | PREFIX | CONNECTOR | PIN | SIZE |               |        |        |          |      |        |                  |       |                     |                    |                    |                  | MULTI GROUP |
| 12628   |        | XA244     | 09  |    | XA246  | 04        |     |      | 16B           | 9      |        | TE01BP   | 01   | TE01BP | 00               | 1     | TDD                 | BP                 | 04B                | BIT 01 I/O REG R |             |
| 13816   |        | XA244     | 10  |    | XA143  | 70        |     |      | 16B           | 9      |        | TKBACB   | 14   | TITIMN | 01               | 1     | TDD                 | AN                 | 07A                |                  |             |
| 20500   |        | XA244     | 11  |    |        |           |     |      |               |        |        | TITIMP   | 01   | TITIMP | 00               | 1     | TDD                 | AP                 | 05B                |                  |             |
| 00454   |        | XA244     | 12  |    |        |           |     |      |               |        |        | +5V      | 01   |        |                  |       | TDD                 |                    |                    |                  |             |
| 13444   |        | XA244     | 13  |    | XA304  | 17        |     |      | 16B           | 9      |        | TITIMQ   | 05   | TITIMQ | 00               | 1     | TDD                 | AQ                 | 06B                | PRESET INPUT     |             |
| 12464   |        | XA244     | 14  |    | XA244  | 26        |     |      | 16B           | 9      |        | TECK1A   | 03   | TE03BN | 01               | 1     | TDD                 | DN                 | 09A                |                  |             |
| 05416   |        | XA244     | 15  |    | XA247  | 07        |     |      | 16B           | 9      |        | SPI019   | 17   | TITIMQ | 01               | 1     | TDD                 | AQ                 | 07B                |                  |             |
| 02256   |        | XA244     | 16  |    |        |           |     |      |               |        |        | GND      | 01   |        |                  |       | TDD                 |                    | 20B                |                  |             |
| 12664   |        | XA244     | 17  |    |        |           |     |      |               |        |        | TE034A   | 02   | TE03BQ | 01               | 1     | TDD                 | DQ                 | 08B                |                  |             |
| 12662   |        | XA244     | 18  |    |        |           |     |      |               |        |        | TE0310   | 02   | TE03BI | 01               | 1     | TDD                 | DI                 | 10A                |                  |             |
| 12657   |        | XA244     | 19  |    | XA240  | 79        |     |      | 16B           | 9      |        | TE03BQ   | 02   | TE03BQ | 00               | 1     | TDD                 | DQ                 | 09B                | BIT 03 I/O REG S |             |
| 12547   |        | XA244     | 20  |    | XA244  | 22        |     |      | 16B           | 9      |        | TERSAA   | 03   | TE03BP | 01               | 1     | TDD                 | DP                 | 11A                |                  |             |
| 12654   |        | XA244     | 21  |    | XA246  | 17        |     |      | 16B           | 9      |        | TE03BP   | 01   | TE03BP | 00               | 1     | TDD                 | DP                 | 10B                | BIT 03 I/O REG R |             |
| 12548   |        | XA244     | 22  |    | XA342  | 37        |     |      | 16B           | 9      |        | TERSAA   | 04   | TE02BP | 01               | 1     | TDD                 | CP                 | 12A                |                  |             |
| 12641   |        | XA244     | 23  |    | XA246  | 19        |     |      | 16B           | 9      |        | TE02BP   | 01   | TE02BP | 00               | 1     | TDD                 | CP                 | 11B                | BIT 02 I/O REG R |             |
| 12649   |        | XA244     | 24  |    |        |           |     |      |               |        |        | TE0210   | 02   | TE02BI | 01               | 1     | TDD                 | CI                 | 13A                |                  |             |
| 12644   |        | XA244     | 25  |    | XA240  | 73        |     |      | 16B           | 9      |        | TE02BQ   | 02   | TE02BQ | 00               | 1     | TDD                 | CQ                 | 12B                | BIT 02 I/O REG S |             |
| 12465   |        | XA244     | 26  |    | XA244  | 30        |     |      | 16B           | 9      |        | TECK1A   | 04   | TE02BN | 01               | 1     | TDD                 | CN                 | 14A                |                  |             |
| 12650   |        | XA244     | 27  |    | XA245  | 24        |     |      | 16B           | 9      |        | TE024A   | 01   | TE02BQ | 01               | 1     | TDD                 | CQ                 | 13B                |                  |             |
| 00455   |        | XA244     | 28  |    |        |           |     |      |               |        |        | +5V      | 01   |        |                  |       | TDD                 |                    |                    |                  |             |
| 12689   |        | XA244     | 29  |    | XA245  | 30        |     |      | 16B           | 9      |        | TE054A   | 01   | TE05BQ | 01               | 1     | TDD                 | FQ                 | 14B                |                  |             |
| 12466   |        | XA244     | 30  |    | XA244  | 42        |     |      | 16B           | 9      |        | TECK1A   | 05   | TE05BN | 01               | 1     | TDD                 | FN                 | 15A                |                  |             |
| 12683   |        | XA244     | 31  |    | XA240  | 55        |     |      | 16B           | 9      |        | TE05BQ   | 02   | TE05BQ | 00               | 1     | TDD                 | FQ                 | 15B                | BIT 05 I/O REG S |             |
| 02257   |        | XA244     | 32  |    |        |           |     |      |               |        |        | GND      | 01   |        |                  |       | TDD                 |                    | 21B                |                  |             |
| 12680   |        | XA244     | 33  |    | XA246  | 29        |     |      | 16B           | 9      |        | TE05BP   | 01   | TE05BP | 00               | 1     | TDD                 | FP                 | 16B                | BIT 05 I/O REG R |             |
| 12688   |        | XA244     | 34  |    |        |           |     |      |               |        |        | TE0510   | 02   | TE05BI | 01               | 1     | TDD                 | FI                 | 16A                |                  |             |
| 12667   |        | XA244     | 35  |    | XA246  | 31        |     |      | 16B           | 9      |        | TE04BP   | 01   | TE04BP | 00               | 1     | TDD                 | EP                 | 17B                | BIT 04 I/O REG R |             |
| 12553   |        | XA244     | 36  |    | XA244  | 38        |     |      | 16B           | 9      |        | TERSBA   | 01   | TE05BP | 01               | 1     | TDD                 | FP                 | 17A                |                  |             |
| 12670   |        | XA244     | 37  |    | XA240  | 59        |     |      | 16B           | 9      |        | TE04BQ   | 02   | TE04BQ | 00               | 1     | TDD                 | EQ                 | 18B                | BIT 04 I/O REG S |             |
| 12554   |        | XA244     | 38  |    | XA244  | 50        |     |      | 16B           | 9      |        | TERSBA   | 02   | TE04BP | 01               | 1     | TDD                 | EP                 | 18A                |                  |             |
| 12676   |        | XA244     | 39  |    | XA245  | 40        |     |      | 16B           | 9      |        | TE044A   | 01   | TE04BQ | 01               | 1     | TDD                 | EQ                 | 19B                |                  |             |
| 12675   |        | XA244     | 40  |    |        |           |     |      |               |        |        | TE0410   | 02   | TE04BI | 01               | 1     | TDD                 | EI                 | 19A                |                  |             |
| 12716   |        | XA244     | 41  |    |        |           |     |      |               |        |        | TE074A   | 02   | TE07BQ | 01               | 1     | TDD                 | HQ                 | 22B                |                  |             |
| 12467   |        | XA244     | 42  |    | XA239  | 75        |     |      | 16B           | 9      |        | TECK1A   | 06   | TE04BN | 01               | 1     | TDD                 | EN                 | 20A                |                  |             |
| 12709   |        | XA244     | 43  |    | XA240  | 70        |     |      | 16B           | 9      |        | TE07BQ   | 02   | TE07BQ | 00               | 1     | TDD                 | HQ                 | 23B                | BIT 07 I/O REG S |             |
| 02258   |        | XA244     | 44  |    |        |           |     |      |               |        |        | GND      | 01   |        |                  |       | TDD                 |                    | 27A                |                  |             |
| 12706   |        | XA244     | 45  |    | XA246  | 41        |     |      | 16B           | 9      |        | TE07BP   | 01   | TE07BP | 00               | 1     | TDD                 | HP                 | 24B                | BIT 07 I/O REG R |             |
| 12476   |        | XA244     | 46  |    | XA244  | 56        |     |      | 16B           | 9      |        | TECK2A   | 01   | TE07BN | 01               | 1     | TDD                 | HN                 | 21A                |                  |             |
| 12693   |        | XA244     | 47  |    | XA246  | 43        |     |      | 16B           | 9      |        | TE06BP   | 01   | TE06BP | 00               | 1     | TDD                 | GP                 | 25B                | BIT 06 I/O REG R |             |
| 12713   |        | XA244     | 48  |    | XA247  | 35        |     |      | 16B           | 9      |        | TE0710   | 01   | TE07BI | 01               | 1     | TDD                 | HI                 | 22A                |                  |             |
| 12696   |        | XA244     | 49  |    | XA240  | 64        |     |      | 16B           | 9      |        | TE06BQ   | 02   | TE06BQ | 00               | 1     | TDD                 | GQ                 | 26B                | BIT 06 I/O REG S |             |
| 12555   |        | XA244     | 50  |    | XA244  | 52        |     |      | 16B           | 9      |        | TERSBA   | 03   | TE07BP | 01               | 1     | TDD                 | HP                 | 23A                |                  |             |
| 12703   |        | XA244     | 51  |    |        |           |     |      |               |        |        | TE064A   | 02   | TE06BQ | 01               | 1     | TDD                 | GQ                 | 27B                |                  |             |
| 12556   |        | XA244     | 52  |    | XA428  | 24        |     |      | 16B           | 9      |        | TERSBA   | 04   | TE06BP | 01               | 1     | TDD                 | GP                 | 24A                |                  |             |
| 04976   |        | XA244     | 53  |    | XA242  | 53        |     |      | 16B           | 9      |        | SPI004   | 11   | TE09BQ | 01               | 1     | TDD                 | KQ                 | 28B                |                  |             |
| 12700   |        | XA244     | 54  |    | XA247  | 47        |     |      | 16B           | 9      |        | TE0610   | 01   | TE06BI | 01               | 1     | TDD                 | GI                 | 25A                |                  |             |
| 12726   |        | XA244     | 55  |    |        |           |     |      |               |        |        | TE09BQ   | 03   | TE09BQ | 00               | 1     | TDD                 | KQ                 | 29B                | BIT 09 I/O REG S |             |
| 12477   |        | XA244     | 56  |    | XA239  | 72        |     |      | 16B           | 9      |        | TECK2A   | 02   | TE06BN | 01               | 1     | TDD                 | GN                 | 26A                |                  |             |
| 20482   |        | XA244     | 57  |    |        |           |     |      |               |        |        | TE09BP   | 01   | TE09BP | 00               | 1     | TDD                 | KP                 | 30B                |                  |             |
| 02259   |        | XA244     | 58  |    |        |           |     |      |               |        |        | GND      | 01   |        |                  |       | TDD                 |                    | 40A                |                  |             |
| CONNECTOR XA244 CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |      |               |        |        |          |      |        |                  |       |                     |                    |                    |                  |             |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA244  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 162

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |        | WIRE        |      |       | SPEC. INST. MISC. | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PL. LINE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|--------|-------------|------|-------|-------------------|---------|--------|----------|------|--------|------------------|-------|------------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SLUG | PREFIX | CONNECTOR | PIN | U. RE. | MULTI GROUP | CODE | COLOR |                   |         |        |          |      |        |                  |       |                        |                    |                    |        |
| 20481         |        | XA244     | 59                              |      |        |           |     |        |             |      |       | M                 | TE088P  | 01     | TE088P   | 00   | 1      | TDD              | JP    |                        | 31B                |                    |        |
| 12458         |        | XA244     | 60                              |      | XA244  | 70        |     |        |             | 16B  | 9     |                   | TECKDA  | 01     | TE098N   | 01   | 1      | TDD              | KN    |                        | 28A                |                    |        |
| 12721         |        | XA244     | 61                              |      |        |           |     |        |             |      |       |                   | TE088Q  | 03     | TE088Q   | 00   | 1      | TDD              | JQ    |                        | 32B                | BIT 08 I/O REG S   |        |
| 12728         |        | XA244     | 62                              |      |        |           |     |        |             |      |       |                   | TE0910  | 02     | TE098I   | 01   | 1      | TDD              | KI    |                        | 29A                |                    |        |
| 05377         |        | XA244     | 63                              |      | XA242  | 63        |     |        |             | 16B  | 9     |                   | SPI018  | 13     | TE088Q   | 01   | 1      | TDD              | JQ    |                        | 33B                |                    |        |
| 05324         |        | XA244     | 64                              |      | XA244  | 65        |     |        |             | 16B  | 9     |                   | SPI016  | 20     | TE098P   | 01   | 1      | TDD              | KP    |                        | 30A                |                    |        |
| 05325         |        | XA244     | 65                              |      | XA242  | 64        |     |        |             | 16B  | 9     |                   | SPI016  | 21     | TS288Q   | 01   | 1      | TDD              | MQ    |                        | 34B                |                    |        |
| 05411         |        | XA244     | 66                              |      | XA242  | 66        |     |        |             | 16B  | 9     |                   | SPI019  | 12     | TE088P   | 01   | 1      | TDD              | JP    |                        | 31A                |                    |        |
| 02260         |        | XA244     | 67                              |      |        |           |     |        |             |      |       |                   | GND     | 01     |          |      |        | TDD              |       |                        | 40B                |                    |        |
| 12723         |        | XA244     | 68                              |      |        |           |     |        |             |      |       |                   | TE0810  | 02     | TE088I   | 01   | 1      | TDD              | JI    |                        | 32A                |                    |        |
| 16448         |        | XA244     | 69                              |      | XA327  | 13        |     |        |             | 16B  | 9     |                   | TS288P  | 03     | TS288P   | 00   | 1      | TDD              | MP    |                        | 35A                | MASTER RESET S28   |        |
| 12459         |        | XA244     | 70                              |      | XA244  | 79        |     |        |             | 16B  | 9     |                   | TECKDA  | 02     | TE088N   | 01   | 1      | TDD              | JN    |                        | 33A                |                    |        |
| 16440         |        | XA244     | 71                              |      |        |           |     |        |             |      |       |                   | TS278Q  | 04     | TS288I   | 01   | 1      | TDD              | MI    |                        | 36A                |                    |        |
| 13807         |        | XA244     | 72                              |      | XA251  | 72        |     |        |             | 16B  | 9     |                   | TKBACB  | 05     | TS288N   | 01   | 1      | TDD              | MN    |                        | 34A                |                    |        |
| 14238         |        | XA244     | 73                              |      | XA347  | 04        |     |        |             | 16B  | 9     |                   | TMRUBA4 | 16     | TS288P   | 01   | 1      | TDD              | MP    |                        | 36B                |                    |        |
| 16456         |        | XA244     | 74                              |      | XA251  | 71        |     |        |             | 16B  | 9     |                   | TS288Q  | 04     | TS288Q   | 00   | 1      | TDD              | MQ    |                        | 35B                | PRESET INPUT S28   |        |
| 05407         |        | XA244     | 75                              |      | XA247  | 79        |     |        |             | 16B  | 9     |                   | SPI019  | 08     | TE108P   | 01   | 1      | TDD              | LP    |                        | 37B                |                    |        |
| 20483         |        | XA244     | 76                              |      |        |           |     |        |             |      |       | M                 | TE108P  | 01     | TE108P   | 00   | 1      | TDD              | LP    |                        | 37A                |                    |        |
| 12733         |        | XA244     | 77                              |      |        |           |     |        |             |      |       |                   | TE1010  | 02     | TE108I   | 01   | 1      | TDD              | LI    |                        | 38B                |                    |        |
| 12731         |        | XA244     | 78                              |      |        |           |     |        |             |      |       |                   | TE108Q  | 03     | TE108Q   | 00   | 1      | TDD              | LQ    |                        | 38A                | BIT 10 I/O REG S   |        |
| 12460         |        | XA244     | 79                              |      | XA237  | 80        |     |        |             | 16B  | 9     |                   | TECKDA  | 03     | TE108N   | 01   | 1      | TDD              | LN    |                        | 39B                |                    |        |
| 05376         |        | XA244     | 80                              |      | XA244  | 63        |     |        |             | 16B  | 9     |                   | SPI018  | 12     | TE108Q   | 01   | 1      | TDD              | LQ    |                        | 39A                |                    |        |
| 14377         |        | XA245     | 01                              |      | XA251  | 08        |     |        |             | 16B  | 9     |                   | TMT11A  | 01     | TMT11A   | 00   | 1      | THI              | A4    |                        | 02B                | DATA INPUT TO ME   |        |
| 02261         |        | XA245     | 02                              |      |        |           |     |        |             |      |       |                   | GND     | 01     |          |      |        | THI              |       |                        | 01A                |                    |        |
| 09654         |        | XA245     | 03                              |      | XA334  | 64        |     |        |             | 16B  | 9     |                   | YCD11A  | 03     | YCD11A   | 00   | 1      | THI              | A3    |                        | 03A                | S4+S2 TBST1 (BYT   |        |
| 09657         |        | XA245     | 04                              |      |        |           |     |        |             |      |       |                   | YCD110  | 02     | YCD11A   | 01   | 1      | THI              | A3    |                        | 02A                |                    |        |
| 14380         |        | XA245     | 05                              |      |        |           |     |        |             |      |       |                   | TMT110  | 02     | TMT11A   | 01   | 1      | THI              | A4    |                        | 03B                |                    |        |
| 12627         |        | XA245     | 06                              |      |        |           |     |        |             |      |       |                   | TE0004  | 02     | TE004A   | 01   | 1      | THI              | A2    |                        | 05A                |                    |        |
| 12637         |        | XA245     | 07                              |      | XA244  | 03        |     |        |             | 16B  | 9     |                   | TE014A  | 01     | TE014A   | 00   | 1      | THI              | A5    |                        | 04B                | SET INPUT BIT 01   |        |
| 12624         |        | XA245     | 08                              |      | XA143  | 65        |     |        |             | 16B  | 9     |                   | TE004A  | 01     | TE004A   | 00   | 1      | THI              | A2    |                        | 04A                | SET INPUT BIT 00   |        |
| 12640         |        | XA245     | 09                              |      |        |           |     |        |             |      |       |                   | TE0140  | 02     | TE014A   | 01   | 1      | THI              | A5    |                        | 05B                |                    |        |
| 14444         |        | XA245     | 10                              |      | XA149  | 26        |     |        |             | 16B  | 9     |                   | TM00C0  | 02     | TM00C0   | 00   | 1      | THI              | A6    |                        | 06B                | STATE M0 UNLOAD-   |        |
| 16338         |        | XA245     | 11                              |      |        |           |     |        |             |      |       |                   | YS214A  | 02     | YS2140   | 01   | 1      | THI              | A1    |                        | 07A                |                    |        |
| 00456         |        | XA245     | 12                              |      |        |           |     |        |             |      |       |                   | +5V     | 01     |          |      |        | THI              |       |                        |                    |                    |        |
| 16339         |        | XA245     | 13                              |      | XA343  | 60        |     |        |             | 16B  | 9     |                   | YS2140  | 01     | YS2140   | 00   | 1      | THI              | A1    |                        | 06A                | MEMORY TIME OUT-   |        |
| 12663         |        | XA245     | 14                              |      | XA244  | 17        |     |        |             | 16B  | 9     |                   | TE034A  | 01     | TE034A   | 00   | 1      | THI              | B4    |                        | 08B                | SET INPUT BIT 03   |        |
| 14435         |        | XA245     | 15                              |      | XA217  | 75        |     |        |             | 16B  | 9     |                   | TM00BP  | 05     | TM00C0   | 01   | 1      | THI              | A6    |                        | 07B                |                    |        |
| 02262         |        | XA245     | 16                              |      |        |           |     |        |             |      |       |                   | GND     | 01     |          |      |        | THI              |       |                        | 20B                |                    |        |
| 12666         |        | XA245     | 17                              |      |        |           |     |        |             |      |       |                   | TE0340  | 02     | TE034A   | 01   | 1      | THI              | B4    |                        | 09B                |                    |        |
| 14503         |        | XA245     | 18                              |      |        |           |     |        |             |      |       |                   | TM02PA  | 03     | TM02PA   | 00   | 1      | THI              | B3    |                        | 09A                | M3 + M6 + MEM. T   |        |
| 14496         |        | XA245     | 19                              |      |        |           |     |        |             |      |       |                   | TM02CA  | 02     | TM02CA   | 00   | 1      | THI              | B5    |                        | 10B                | STATE M02 UNLOAD   |        |
| 14590         |        | XA245     | 20                              |      | XA248  | 09        |     |        |             | 16B  | 9     |                   | TM3M60  | 01     | TM02PA   | 01   | 1      | THI              | B3    |                        | 10A                |                    |        |
| 14490         |        | XA245     | 21                              |      | XA150  | 68        |     |        |             | 16B  | 9     |                   | TM02BQ  | 03     | TM02CA   | 01   | 1      | THI              | B5    |                        | 11B                |                    |        |
| 12653         |        | XA245     | 22                              |      |        |           |     |        |             |      |       |                   | TE0240  | 02     | TE024A   | 01   | 1      | THI              | B1    |                        | 14A                |                    |        |
| 14456         |        | XA245     | 23                              |      | XA317  | 70        |     |        |             | 16B  | 9     |                   | TM01BP  | 03     | TM01C0   | 01   | 1      | THI              | B2    |                        | 12A                |                    |        |
| 12651         |        | XA245     | 24                              |      |        |           |     |        |             |      |       |                   | TE024A  | 02     | TE024A   | 00   | 1      | THI              | B1    |                        | 13A                | SET INPUT BIT 02   |        |
| 14477         |        | XA245     | 25                              |      | XA109  | 10        |     |        |             | 16B  | 9     |                   | TM01C0  | 10     | TM01C0   | 00   | 1      | THI              | B2    |                        | 11A                | STATE M1 UNLOAD-   |        |
| 14499         |        | XA245     | 26                              |      | XA150  | 53        |     |        |             | 16B  | 9     |                   | TM02C0  | 03     | TM02C0   | 00   | 1      | THI              | B6    |                        | 12B                | M2 OVERLOAD        |        |
| CONNECTOR     |        | XA245     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |        |             |      |       |                   |         |        |          |      |        |                  |       |                        |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA245  
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| RECORD NUMBER | FROM   |           |                                 |         | TO     |           |     |         | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERX | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|---------|--------|-----------|-----|---------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE NO | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 14487         |        | XA245     | 27                              |         |        |           |     |         |             |      |       |       | TM02BP | 02     | TM02C0   | 01   | 1      | THI              | B6    |                     | 13B                |                    |        |
| 00457         |        | XA245     | 28                              |         |        |           |     |         |             |      |       |       | +5V    | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 12692         |        | XA245     | 29                              |         |        |           |     |         |             |      |       |       | TE0540 | 02     | TE054A   | 01   | 1      | THI              | C4    |                     | 15B                |                    |        |
| 12690         |        | XA245     | 30                              |         |        |           |     |         |             |      |       |       | TE054A | 02     | TE054A   | 00   | 1      | THI              | C4    |                     | 14B                | SET INPUT BIT 05   |        |
| 16669         |        | XA245     | 31                              |         |        |           |     |         |             |      |       |       | TTSM00 | 09     | TTSM00   | 00   | 1      | THI              | C5    |                     | 16B                | S REG TO CPU BUS   |        |
| 02263         |        | XA245     | 32                              |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     | 21B                |                    |        |
| 13282         |        | XA245     | 33                              |         | XA245  | 39        |     | 16B     | 9           |      |       |       | TICSCA | 01     | TTSM00   | 01   | 1      | THI              | C5    |                     | 17B                | STATE COUNTER TO   |        |
| 14517         |        | XA245     | 34                              |         | XA346  | 05        |     | 16B     | 9           |      |       |       | TM03C0 | 01     | TM03C0   | 00   | 1      | THI              | C3    |                     | 15A                | STATE M3 F/F UNL   |        |
| 14513         |        | XA245     | 35                              |         | XA340  | 69        |     | 16B     | 9           |      |       |       | TM03BQ | 05     | TM03CA   | 01   | 1      | THI              | C2    |                     | 18A                |                    |        |
| 14506         |        | XA245     | 36                              |         | XA248  | 01        |     | 16B     | 9           |      |       |       | TM03BP | 02     | TM03C0   | 01   | 1      | THI              | C3    |                     | 16A                |                    |        |
| 14515         |        | XA245     | 37                              |         | XA150  | 05        |     | 16B     | 9           |      |       |       | TM03CA | 01     | TM03CA   | 00   | 1      | THI              | C2    |                     | 17A                | STATE M3 F/F UNL   |        |
| 12679         |        | XA245     | 38                              |         |        |           |     |         |             |      |       |       | TE0440 | 02     | TE044A   | 01   | 1      | THI              | C1    |                     | 20A                |                    |        |
| 13283         |        | XA245     | 39                              |         | XA245  | 41        |     | 16B     | 9           |      |       |       | TICSCA | 02     | TTSM10   | 01   | 1      | THI              | C6    |                     | 19B                | STATE COUNTER TO   |        |
| 12677         |        | XA245     | 40                              |         |        |           |     |         |             |      |       |       | TE044A | 02     | TE044A   | 00   | 1      | THI              | C1    |                     | 19A                | SET INPUT BIT 04   |        |
| 13284         |        | XA245     | 41                              |         | XA245  | 50        |     | 16B     | 9           |      |       |       | TICSCA | 03     | TTSM30   | 01   | 1      | THI              | D4    |                     | 23B                | STATE COUNTER TO   |        |
| 16678         |        | XA245     | 42                              |         |        |           |     |         |             |      |       |       | TTSM10 | 09     | TTSM10   | 00   | 1      | THI              | C6    |                     | 18B                | S REG TO CPU BUS   |        |
| 12715         |        | XA245     | 43                              |         | XA244  | 41        |     | 16B     | 9           |      |       |       | TE074A | 01     | TE074A   | 00   | 1      | THI              | D5    |                     | 24B                | SET INPUT BIT 07   |        |
| 02264         |        | XA245     | 44                              |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     | 27A                |                    |        |
| 12718         |        | XA245     | 45                              |         |        |           |     |         |             |      |       |       | TE0740 | 02     | TE074A   | 01   | 1      | THI              | D5    |                     | 25B                |                    |        |
| 16691         |        | XA245     | 46                              |         | XA249  | 35        |     | 16B     | 9           |      |       |       | TTSM30 | 05     | TTSM30   | 00   | 1      | THI              | D4    |                     | 22B                | S REG TO MEM BUS   |        |
| 16372         |        | XA245     | 47                              |         |        |           |     |         |             |      |       |       | TS23BP | 05     | TS23C0   | 01   | 1      | THI              | D2    |                     | 24A                |                    |        |
| 16683         |        | XA245     | 48                              |         | XA348  | 59        |     | 16B     | 9           |      |       |       | TTSM20 | 05     | TTSM20   | 00   | 1      | THI              | D3    |                     | 21A                | S REG TO CPU BUS   |        |
| 16377         |        | XA245     | 49                              |         | XA246  | 65        |     | 16B     | 9           |      |       |       | TS23C0 | 01     | TS23C0   | 00   | 1      | THI              | D2    |                     | 23A                |                    |        |
| 13285         |        | XA245     | 50                              |         | XA426  | 71        |     | 16B     | 9           |      |       |       | TICSCA | 04     | TTSM20   | 01   | 1      | THI              | D3    |                     | 22A                | STATE COUNTER TO   |        |
| 09676         |        | XA245     | 51                              |         | XA245  | 61        |     | 16B     | 9           |      |       |       | TC016A | 02     | TC0160   | 01   | 1      | THI              | D6    |                     | 27B                |                    |        |
| 12705         |        | XA245     | 52                              |         |        |           |     |         |             |      |       |       | TE0640 | 02     | TE064A   | 01   | 1      | THI              | D1    |                     | 26A                |                    |        |
| 09684         |        | XA245     | 53                              |         | XA246  | 77        |     | 16B     | 9           |      |       |       | TC0160 | 06     | TC0160   | 00   | 1      | THI              | D6    |                     | 26B                | MEM PE*.M3         |        |
| 12702         |        | XA245     | 54                              |         | XA244  | 51        |     | 16B     | 9           |      |       |       | TE064A | 01     | TE064A   | 00   | 1      | THI              | D1    |                     | 25A                | SET INPUT BIT 06   |        |
| 16495         |        | XA245     | 55                              |         | XA349  | 69        |     | 16B     | 9           |      |       |       | TS4M5A | 01     | TS4M50   | 01   | 1      | THI              | E4    |                     | 29B                |                    |        |
| 16498         |        | XA245     | 56                              |         | XA230  | 08        |     | 16B     | 9           |      |       |       | TS4M50 | 02     | TS4M50   | 00   | 1      | THI              | E4    |                     | 28B                | S04.IND*.ACTIVE(   |        |
| 16490         |        | XA245     | 57                              |         |        |           |     |         |             |      |       |       | TS3M00 | 04     | TS3M00   | 00   | 1      | THI              | E5    |                     | 30B                | S0.M0.BURST*-0     |        |
| 02265         |        | XA245     | 58                              |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     | 40A                |                    |        |
| 16485         |        | XA245     | 59                              |         | XA349  | 76        |     | 16B     | 9           |      |       |       | TS3M0A | 03     | TS3M00   | 01   | 1      | THI              | E5    |                     | 31B                |                    |        |
| 07886         |        | XA245     | 60                              |         |        |           |     |         |             |      |       |       | TBYCA0 | 05     | TBYCA0   | 00   | 1      | THI              | E3    |                     | 28A                |                    |        |
| 09677         |        | XA245     | 61                              |         | XA351  | 04        |     | 16B     | 9           |      |       |       | TC016A | 03     | TC0170   | 01   | 1      | THI              | E2    |                     | 31A                |                    |        |
| 05410         |        | XA245     | 62                              |         |        |           |     |         |             |      |       |       | TBYCAA | 02     | TBYCA0   | 01   | 1      | THI              | E3    |                     | 29A                |                    |        |
| 09697         |        | XA245     | 63                              |         |        |           |     |         |             |      |       |       | TC0170 | 09     | TC0170   | 00   | 1      | THI              | E2    |                     | 30A                |                    |        |
| 15115         |        | XA245     | 64                              |         |        |           |     |         |             |      |       |       | TQRSA0 | 07     | TQRSA0   | 01   | 1      | THI              | E1    |                     | 33A                |                    |        |
| 15128         |        | XA245     | 65                              |         | XA350  | 27        |     | 16B     | 9           |      |       |       | TQSC2A | 05     | TQSC20   | 01   | 1      | THI              | E6    |                     | 33B                |                    |        |
| 15107         |        | XA245     | 66                              |         | XA114  | 72        |     | 16B     | 9           |      |       |       | TQRSA0 | 01     | TQRSA0   | 00   | 1      | THI              | E1    |                     | 32A                | S9+S16+S18-A       |        |
| 02266         |        | XA245     | 67                              |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 15134         |        | XA245     | 68                              |         |        |           |     |         |             |      |       |       | TQSC20 | 05     | TQSC20   | 00   | 1      | THI              | E6    |                     | 32B                | Q REG SEL CONTR    |        |
| 16445         |        | XA245     | 69                              |         |        |           |     |         |             |      |       |       | TS271A | 02     | TS2700   | 01   | 1      | THI              | F3    |                     | 35B                |                    |        |
| 16443         |        | XA245     | 70                              |         |        |           |     |         |             |      |       |       | TS2700 | 02     | TS2700   | 00   | 1      | THI              | F3    |                     | 34B                | SEL S27            |        |
| 16387         |        | XA245     | 71                              |         | XA251  | 36        |     | 16B     | 9           |      |       |       | TS233A | 01     | TS233A   | 00   | 1      | THI              | F2    |                     | 36B                | RESET S23          |        |
| 16464         |        | XA245     | 72                              |         | XA230  | 73        |     | 16B     | 9           |      |       |       | TS28F0 | 01     | TS28F0   | 00   | 1      | THI              | F4    |                     | 34A                | S28 AND OFRO       |        |
| 16390         |        | XA245     | 73                              |         |        |           |     |         |             |      |       |       | TS2330 | 02     | TS233A   | 01   | 1      | THI              | F2    |                     | 37B                |                    |        |
| 16463         |        | XA245     | 74                              |         |        |           |     |         |             |      |       |       | TS28FA | 03     | TS28F0   | 01   | 1      | THI              | F4    |                     | 35A                |                    |        |
| 095           |        | XA245     | 75                              |         | XA440  | 36        |     | 16B     | 9           |      |       |       | TCPD40 | 02     | TCPD4A   | 01   | 1      | THI              | F6    |                     | 39A                |                    |        |
| 10455         |        | XA245     | 76                              |         | XA350  | 80        |     | 16B     | 9           |      |       |       | TS29FA | 01     | TS29F0   | 01   | 1      | THI              | F5    |                     | 37A                |                    |        |
| CONNECTOR     |        | XA245     | CONTINUED ON THE NEXT PAGE **** |         |        |           |     |         |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA245  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 164

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION             | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |        |                  |       |                     |                    |                                |        |
| 09867   |        | XA245     | 77  |        | XA122     | 03  |             | 16B  | 9     |       |        | TCPD4A | 02       | TCPD4A | 00     | 1                | THI   | F6                  | 38A                | BTSP 12*+CPU REQ. S29 AND DFRO |        |
| 16478   |        | XA245     | 78  |        |           |     |             |      |       |       |        | TS29F0 | 02       | TS29F0 | 00     | 1                | THI   | F5                  | 36A                |                                |        |
| 16307   |        | XA245     | 79  |        | XA250     | 54  |             | 16B  | 9     |       |        | TS21BP | 04       | TS21C0 | 01     | 1                | THI   | F1                  | 39B                | STATE S21 F/F UNCL0            |        |
| 16317   |        | XA245     | 80  |        | XA215     | 55  |             | 16B  | 9     |       |        | TS21C0 | 01       | TS21C0 | 00     | 1                | THI   | F1                  | 38B                |                                |        |
| 14711   |        | XA246     | 01  |        |           |     |             |      |       |       |        | TPE10A | 03       | TPE10A | 00     | 1                | TQ2   | A2                  | 02B                | PARITY 0*.1*                   |        |
| 02267   |        | XA246     | 02  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     | 01A                |                                |        |
| 15871   |        | XA246     | 03  |        | XA122     | 45  |             | 16B  | 9     |       |        | TS04BP | 06       | TC0110 | 01     | 1                | TQ2   | A3                  | 02A                |                                |        |
| 12629   |        | XA246     | 04  |        |           |     |             |      |       |       |        | TE01BP | 02       | TPE10A | 01     | 1                | TQ2   | A2                  | 04A                |                                |        |
| 12616   |        | XA246     | 05  |        |           |     |             |      |       |       |        | TE00BP | 02       | TPE10A | 01     | 2                | TQ2   | A2                  | 03B                | PARITY 0-1                     |        |
| 14702   |        | XA246     | 06  |        |           |     |             |      |       |       |        | TPE01A | 03       | TPE01A | 00     | 1                | TQ2   | A1                  | 05A                |                                |        |
| 09674   |        | XA246     | 07  |        |           |     |             |      |       |       |        | TC015A | 02       | TC0110 | 01     | 2                | TQ2   | A3                  | 03A                |                                |        |
| 12620   |        | XA246     | 08  |        | XA143     | 74  |             | 16B  | 9     |       |        | TE00BQ | 04       | TPE01A | 01     | 1                | TQ2   | A1                  | 06A                |                                |        |
| 09656   |        | XA246     | 09  |        | XA245     | 04  |             | 16B  | 9     |       |        | TC0110 | 01       | TC0110 | 00     | 1                | TQ2   | A3                  | 04B                | S04 + S02.BTSTP                |        |
| 12630   |        | XA246     | 10  |        | XA244     | 07  |             | 16B  | 9     |       |        | TE01BQ | 01       | TPE01A | 01     | 2                | TQ2   | A1                  | 07A                |                                |        |
| 12481   |        | XA246     | 11  |        | XA109     | 38  |             | 16B  | 9     |       |        | TE01AA | 01       | TE0140 | 01     | 1                | TQ2   | A4                  | 05B                |                                |        |
| 00458   |        | XA246     | 12  |        |           |     |             |      |       |       |        | +5V    | 01       |        |        |                  | TQ2   |                     |                    |                                |        |
| 05418   |        | XA246     | 13  |        | XA248     | 13  |             | 16B  | 9     |       |        | SP1019 | 19       | TE0140 | 01     | 2                | TQ2   | A4                  | 06B                | PARITY 2.3                     |        |
| 14714   |        | XA246     | 14  |        |           |     |             |      |       |       |        | TPE23A | 03       | TPE23A | 00     | 1                | TQ2   | B2                  | 09A                |                                |        |
| 12639   |        | XA246     | 15  |        | XA245     | 09  |             | 16B  | 9     |       |        | TE0140 | 01       | TE0140 | 00     | 1                | TQ2   | A4                  | 07B                | SET INPUT BIT 01               |        |
| 02268   |        | XA246     | 16  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     | 01B                |                                |        |
| 12655   |        | XA246     | 17  |        |           |     |             |      |       |       |        | TE03BP | 02       | TPE32A | 01     | 1                | TQ2   | B3                  | 08B                |                                |        |
| 12643   |        | XA246     | 18  |        | XA244     | 25  |             | 16B  | 9     |       |        | TE02BQ | 01       | TPE23A | 01     | 1                | TQ2   | B2                  | 10A                |                                |        |
| 12642   |        | XA246     | 19  |        |           |     |             |      |       |       |        | TE02BP | 02       | TPE32A | 01     | 2                | TQ2   | B3                  | 09B                | PARITY 2*.3*                   |        |
| 12656   |        | XA246     | 20  |        | XA244     | 19  |             | 16B  | 9     |       |        | TE03B0 | 01       | TPE23A | 01     | 2                | TQ2   | B2                  | 11A                |                                |        |
| 14718   |        | XA246     | 21  |        | XA341     | 18  |             | 16B  | 9     |       |        | TPE32A | 01       | TPE32A | 00     | 1                | TQ2   | B3                  | 10B                | SET INPUT BIT 02               |        |
| 12652   |        | XA246     | 22  |        | XA245     | 22  |             | 16B  | 9     |       |        | TE0240 | 01       | TE0240 | 00     | 1                | TQ2   | B1                  | 12A                |                                |        |
| 12592   |        | XA246     | 23  |        | XA112     | 38  |             | 16B  | 9     |       |        | TES5AA | 01       | TE0340 | 01     | 1                | TQ2   | B4                  | 11B                |                                |        |
| 12572   |        | XA246     | 24  |        | XA247     | 13  |             | 16B  | 9     |       |        | TES2AA | 01       | TE0240 | 01     | 1                | TQ2   | B1                  | 13A                |                                |        |
| 12485   |        | XA246     | 25  |        | XA109     | 33  |             | 16B  | 9     |       |        | TE03AA | 01       | TE0340 | 01     | 2                | TQ2   | B4                  | 12B                |                                |        |
| 12484   |        | XA246     | 26  |        |           |     |             |      |       |       |        | TE02AA | 02       | TE0240 | 01     | 2                | TQ2   | B1                  | 14A                |                                |        |
| 12665   |        | XA246     | 27  |        | XA245     | 17  |             | 16B  | 9     |       |        | TE0340 | 01       | TE0340 | 00     | 1                | TQ2   | B4                  | 13B                | SET INPUT BIT 03               |        |
| 00459   |        | XA246     | 28  |        |           |     |             |      |       |       |        | +5V    | 01       |        |        |                  | TQ2   |                     |                    |                                |        |
| 12681   |        | XA246     | 29  |        |           |     |             |      |       |       |        | TE05BP | 02       | TPE54A | 01     | 1                | TQ2   | C3                  | 14B                | PARITY 4.5                     |        |
| 14723   |        | XA246     | 30  |        |           |     |             |      |       |       |        | TPE45A | 03       | TPE45A | 00     | 1                | TQ2   | C2                  | 15A                |                                |        |
| 12668   |        | XA246     | 31  |        |           |     |             |      |       |       |        | TE04BP | 02       | TPE54A | 01     | 2                | TQ2   | C3                  | 15B                |                                |        |
| 02269   |        | XA246     | 32  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     | 20B                |                                |        |
| 14729   |        | XA246     | 33  |        |           |     |             |      |       |       |        | TPE54A | 03       | TPE54A | 00     | 1                | TQ2   | C3                  | 16B                | PARITY 4*.5*                   |        |
| 12669   |        | XA246     | 34  |        | XA244     | 37  |             | 16B  | 9     |       |        | TE04BQ | 01       | TPE45A | 01     | 1                | TQ2   | C2                  | 16A                |                                |        |
| 12596   |        | XA246     | 35  |        | XA112     | 33  |             | 16B  | 9     |       |        | TES7AA | 01       | TE0540 | 01     | 1                | TQ2   | C4                  | 17B                |                                |        |
| 12682   |        | XA246     | 36  |        | XA244     | 31  |             | 16B  | 9     |       |        | TE05BQ | 01       | TPE45A | 01     | 2                | TQ2   | C2                  | 17A                |                                |        |
| 12489   |        | XA246     | 37  |        | XA109     | 51  |             | 16B  | 9     |       |        | TE05AA | 01       | TE0540 | 01     | 2                | TQ2   | C4                  | 18B                | SET INPUT BIT 04               |        |
| 12678   |        | XA246     | 38  |        | XA245     | 38  |             | 16B  | 9     |       |        | TE0440 | 01       | TE0440 | 00     | 1                | TQ2   | C1                  | 18A                |                                |        |
| 12691   |        | XA246     | 39  |        | XA245     | 29  |             | 16B  | 9     |       |        | TE0540 | 01       | TE0540 | 00     | 1                | TQ2   | C4                  | 19B                | SET INPUT BIT 05               |        |
| 12488   |        | XA246     | 40  |        |           |     |             |      |       |       |        | TE04AA | 02       | TE0440 | 01     | 1                | TQ2   | C1                  | 19A                |                                |        |
| 12707   |        | XA246     | 41  |        |           |     |             |      |       |       |        | TE07BP | 02       | TPE76A | 01     | 1                | TQ2   | D3                  | 22B                |                                |        |
| 12595   |        | XA246     | 42  |        |           |     |             |      |       |       |        | TES6AA | 02       | TE0440 | 01     | 2                | TQ2   | C1                  | 20A                |                                |        |
| 12694   |        | XA246     | 43  |        |           |     |             |      |       |       |        | TE06BP | 02       | TPE76A | 01     | 2                | TQ2   | D3                  | 23B                |                                |        |
| 02270   |        | XA246     | 44  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  | TQ2   |                     | 21B                |                                |        |
| CONNECTOR (XA246) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |        |        |                  |       |                     |                    |                                |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA246  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 165

| RECORD NUMBER | FROM   |           |                                 |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | OR | PREFIX | CONNECTOR | PIN | OR | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 14739         | XA246  | 45        |                                 |    | XA341  | 23        |     |    |             | 16B  | 9     |       | TPE76A  | 01     | TPE76A   | 00   | 1      | TQ2              | D3    |                     | 24B                | PARITY 6*.7*       |        |
| 14732         | XA246  | 46        |                                 |    |        |           |     |    |             |      |       |       | TPE67A  | 03     | TPE67A   | 00   | 1      | TQ2              | D2    |                     | 21A                | PARITY 6.7         |        |
| 12579         | XA246  | 47        |                                 |    |        |           |     |    |             |      |       |       | TES3AA  | 05     | TE0740   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 12695         | XA246  | 48        |                                 |    | XA244  | 49        |     |    |             | 16B  | 9     |       | TE06BQ  | 01     | TPE67A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 12494         | XA246  | 49        |                                 |    |        |           |     |    |             |      |       |       | TE07AA  | 02     | TE0740   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 12708         | XA246  | 50        |                                 |    | XA244  | 43        |     |    |             | 16B  | 9     |       | TE07BQ  | 01     | TPE67A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 12717         | XA246  | 51        |                                 |    | XA245  | 45        |     |    |             | 16B  | 9     |       | TE0740  | 01     | TE0740   | 00   | 1      | TQ2              | D4    |                     | 27B                | SET INPUT BIT 07   |        |
| 12704         | XA246  | 52        |                                 |    | XA245  | 52        |     |    |             | 16B  | 9     |       | TE0640  | 01     | TE0640   | 00   | 1      | TQ2              | D1    |                     | 24A                | SET INPUT BIT 06   |        |
| 15976         | XA246  | 53        |                                 |    | XA346  | 10        |     |    |             | 16B  | 9     |       | TS08BQ  | 01     | TCDI2A   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 12492         | XA246  | 54        |                                 |    |        |           |     |    |             |      |       |       | TE06AA  | 02     | TE0640   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 14681         | XA246  | 55        |                                 |    | XA138  | 46        |     |    |             | 16B  | 9     |       | TPEM2A  | 06     | TCDI2A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 12565         | XA246  | 56        |                                 |    |        |           |     |    |             |      |       |       | TES1AA  | 03     | TE0640   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 09660         | XA246  | 57        |                                 |    | XA334  | 66        |     |    |             | 16B  | 9     |       | TCDI2A  | 03     | TCDI2A   | 00   | 1      | TQ2              | E3    |                     | 30B                | S08.MEMORY PARIT   |        |
| 02271         | XA246  | 58        |                                 |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 09683         | XA246  | 59        |                                 |    | XA245  | 53        |     |    |             | 16B  | 9     |       | TCDI160 | 05     | TCDI3A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 13493         | XA246  | 60        |                                 |    | XA139  | 79        |     |    |             | 16B  | 9     |       | TI2CKA  | 01     | TI2CKA   | 00   | 1      | TQ2              | E2    |                     | 28A                | SWITCH + MR CLOC   |        |
| 16186         | XA246  | 61        |                                 |    | XA349  | 20        |     |    |             | 16B  | 9     |       | TS16BQ  | 01     | TCDI3A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 13277         | XA246  | 62        |                                 |    |        |           |     |    |             |      |       |       | TI2ZBO  | 02     | TI2CKA   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 09664         | XA246  | 63        |                                 |    | XA250  | 36        |     |    |             | 16B  | 9     |       | TCDI3A  | 03     | TCDI3A   | 00   | 1      | TQ2              | E4    |                     | 33B                | S16.MEMORY PE*.M   |        |
| 13674         | XA246  | 64        |                                 |    | XA335  | 06        |     |    |             | 16B  | 9     |       | TKAAAB  | 06     | TI2CKA   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 16378         | XA246  | 65        |                                 |    |        |           |     |    |             |      |       |       | TS23C0  | 02     | TCPD2A   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 10573         | XA246  | 66        |                                 |    |        |           |     |    |             |      |       |       | TDAXAA  | 10     | TDAXAA   | 00   | 1      | TQ2              | E1    |                     | 31A                | XFER CONTROL DAT   |        |
| 02272         | XA246  | 67        |                                 |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 10561         | XA246  | 68        |                                 |    | XA346  | 57        |     |    |             | 16B  | 9     |       | TDACA0  | 01     | TDAXAA   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 09856         | XA246  | 69        |                                 |    | XA134  | 70        |     |    |             | 16B  | 9     |       | TCPD2A  | 01     | TCPD2A   | 00   | 1      | TQ2              | F3    |                     | 35A                | DB TO TD CONTROL   |        |
| 14462         | XA246  | 70        |                                 |    | XA148  | 48        |     |    |             | 16B  | 9     |       | TM01BQ  | 04     | TDAXAA   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 09715         | XA246  | 71        |                                 |    | XA335  | 73        |     |    |             | 16B  | 9     |       | TC0320  | 02     | TC031A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 09712         | XA246  | 72        |                                 |    | XA349  | 22        |     |    |             | 16B  | 9     |       | TC031A  | 03     | TC031A   | 00   | 1      | TQ2              | F2    |                     | 34A                | S22(0FR0+0FR1+0F   |        |
| 16354         | XA246  | 73        |                                 |    | XA350  | 03        |     |    |             | 16B  | 9     |       | TS22BQ  | 06     | TC031A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 17033         | XA246  | 74        |                                 |    | XA141  | 45        |     |    |             | 16B  | 9     |       | TOFRA0  | 05     | TCPD2A   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 09670         | XA246  | 75        |                                 |    | XA329  | 03        |     |    |             | 16B  | 9     |       | TCDI14A | 04     | TCDI14A  | 00   | 1      | TQ2              | F1    |                     | 37B                | S18.MEMORY PE*.M   |        |
| 17032         | XA246  | 76        |                                 |    | XA246  | 74        |     |    |             | 16B  | 9     |       | TOFRA0  | 04     | TCPD3A   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 09685         | XA246  | 77        |                                 |    | XA345  | 73        |     |    |             | 16B  | 9     |       | TCDI160 | 07     | TCDI14A  | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 16439         | XA246  | 78        |                                 |    | XA244  | 71        |     |    |             | 16B  | 9     |       | TS27BQ  | 03     | TCPD3A   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 16245         | XA246  | 79        |                                 |    |        |           |     |    |             |      |       |       | TS18BQ  | 07     | TCDI14A  | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 09865         | XA246  | 80        |                                 |    |        |           |     |    |             |      |       |       | TCPD3A  | 05     | TCPD3A   | 00   | 1      | TQ2              | F4    |                     | 39A                | DB YO TD CONTROL   |        |
| 12564         | XA247  | 01        |                                 |    | XA246  | 56        |     |    |             | 16B  | 9     |       | TES1AA  | 02     | TE0040   | 01   | 1      | TS8              | A1    |                     | 02B                |                    |        |
| 02273         | XA247  | 02        |                                 |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |        | TS8              |       |                     | 01A                |                    |        |
| 01034         | XA247  | 03        |                                 |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12578         | XA247  | 04        |                                 |    | XA246  | 47        |     |    |             | 16B  | 9     |       | TES3AA  | 04     | TE0040   | 01   | 2      | TS8              | A1    |                     | 04A                |                    |        |
| 05331         | XA247  | 05        |                                 |    | XA236  | 55        |     |    |             | 16B  | 9     |       | SPI016  | 27     | TE0040   | 01   | 3      | TS8              | A1    |                     | 03B                |                    | C05    |
| 05370         | XA247  | 06        |                                 |    | XA242  | 15        |     |    |             | 16B  | 9     |       | SPI018  | 06     | TE0040   | 01   | 4      | TS8              | A1    |                     | 05A                |                    |        |
| 05417         | XA247  | 07        |                                 |    | XA246  | 13        |     |    |             | 16B  | 9     |       | SPI019  | 18     | TE0040   | 01   | 5      | TS8              | A1    |                     | 03A                |                    |        |
| 12480         | XA247  | 08        |                                 |    |        |           |     |    |             |      |       |       | TEDOAA  | 02     | TE0040   | 01   | 6      | TS8              | A1    |                     | 06A                |                    |        |
| 01035         | XA247  | 09        |                                 |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12585         | XA247  | 10        |                                 |    | XA205  | 09        |     |    |             | 16B  | 9     |       | TES4AA  | 01     | TE0040   | 01   | 7      | TS8              | A1    |                     | 07A                |                    |        |
| 12626         | XA247  | 11        |                                 |    | XA245  | 06        |     |    |             | 16B  | 9     |       | TE0040  | 01     | TE0040   | 00   | 1      | TS8              | A1    |                     | 05B                | SET INPUT BIT 00   |        |
| 00460         | XA247  | 12        |                                 |    |        |           |     |    |             |      |       |       | +5V     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| CONNECTOR     |        | XA247     | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |    |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA247  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 166

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE      |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-----------|-------------|------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | DIAG. NO. | MULTI GROUP | CODE | COLOR |        |        |          |        |        |                  |       |                     |                    |                    |        |
| 12573   |        | XA247     | 13  |        | XA108     | 19  |           |             | 16B  | 9     |        | TES2AA | 02       | TE0040 | 01     | 8                | TS8   | A1                  | 06B                |                    |        |
| 10585   |        | XA247     | 14  |        |           |     |           |             |      |       |        | TDAX8A | 04       | TDC010 | 01     | 1                | TS8   | B1                  | 09A                |                    |        |
| 01036   |        | XA247     | 15  |        |           |     |           |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 02274   |        | XA247     | 16  |        |           |     |           |             |      |       |        | GND    | 01       |        |        |                  | TS8   |                     | 21B                |                    |        |
| 01037   |        | XA247     | 17  |        |           |     |           |             |      |       |        | ONW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 13892   |        | XA247     | 18  |        | XA115     | 21  |           |             | 16B  | 9     |        | TKWXAA | 05       | TDC010 | 01     | 2                | TS8   | B1                  | 10A                |                    |        |
| 14810   |        | XA247     | 19  |        | XA138     | 23  |           |             | 16B  | 9     |        | TPQRSA | 01       | TDC010 | 01     | 3                | TS8   | B1                  | 09B                |                    |        |
| 05420   |        | XA247     | 20  |        | XA248     | 26  |           |             | 16B  | 9     |        | SPI019 | 21       | TDC010 | 01     | 4                | TS8   | B1                  | 11A                |                    |        |
| 01038   |        | XA247     | 21  |        |           |     |           |             |      |       |        | ONW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 09815   |        | XA247     | 22  |        |           |     |           |             |      |       |        | TCPCAA | 06       | TDC010 | 01     | 5                | TS8   | B1                  | 12A                |                    |        |
| 10637   |        | XA247     | 23  |        |           |     |           |             |      |       |        | TDC010 | 03       | TDC010 | 00     | 1                | TS8   | B1                  | 11B                | CLOCK CONTROL TO   |        |
| 16820   |        | XA247     | 24  |        |           |     |           |             |      |       |        | TWBXAA | 03       | TDC010 | 01     | 6                | TS8   | B1                  | 13A                |                    |        |
| 09300   |        | XA247     | 25  |        |           |     |           |             |      |       |        | TBIXAA | 02       | TDC010 | 01     | 7                | TS8   | B1                  | 12B                |                    |        |
| 13882   |        | XA247     | 26  |        | XA334     | 01  |           |             | 16B  | 9     |        | TKT50A | 04       | TDC010 | 01     | 8                | TS8   | B1                  | 14A                |                    |        |
| 01039   |        | XA247     | 27  |        |           |     |           |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 00461   |        | XA247     | 28  |        |           |     |           |             |      |       |        | +5V    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 01040   |        | XA247     | 29  |        |           |     |           |             |      |       |        | ONW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 13071   |        | XA247     | 30  |        | XA225     | 72  |           |             | 16B  | 9     |        | TF076A | 01       | TE0710 | 01     | 1                | TS8   | C1                  | 15A                |                    |        |
| 13068   |        | XA247     | 31  |        |           |     |           |             |      |       |        | TF074A | 02       | TE0710 | 01     | 2                | TS8   | C1                  | 15B                |                    |        |
| 02275   |        | XA247     | 32  |        |           |     |           |             |      |       |        | GND    | 01       |        |        |                  | TS8   |                     | 27A                |                    |        |
| 01041   |        | XA247     | 33  |        |           |     |           |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 13065   |        | XA247     | 34  |        | XA230     | 45  |           |             | 16B  | 9     |        | TF073A | 01       | TE0710 | 01     | 3                | TS8   | C1                  | 16A                |                    |        |
| 12714   |        | XA247     | 35  |        |           |     |           |             |      |       |        | TE0710 | 02       | TE0710 | 00     | 1                | TS8   | C1                  | 17B                | ORED DATA INPUT    |        |
| 13064   |        | XA247     | 36  |        |           |     |           |             |      |       |        | TF072A | 02       | TE0710 | 01     | 4                | TS8   | C1                  | 17A                |                    |        |
| 13076   |        | XA247     | 37  |        |           |     |           |             |      |       |        | TF078A | 02       | TE0710 | 01     | 5                | TS8   | C1                  | 18B                |                    |        |
| 13070   |        | XA247     | 38  |        |           |     |           |             |      |       |        | TF075A | 02       | TE0710 | 01     | 6                | TS8   | C1                  | 18A                |                    |        |
| 01042   |        | XA247     | 39  |        |           |     |           |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 13061   |        | XA247     | 40  |        | XA234     | 69  |           |             | 16B  | 9     |        | TF071A | 01       | TE0710 | 01     | 7                | TS8   | C1                  | 19A                |                    |        |
| 01043   |        | XA247     | 41  |        |           |     |           |             |      |       |        | ONW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 13074   |        | XA247     | 42  |        |           |     |           |             |      |       |        | TF077A | 02       | TE0710 | 01     | 8                | TS8   | C1                  | 20A                |                    |        |
| 13045   |        | XA247     | 43  |        | XA234     | 75  |           |             | 16B  | 9     |        | TF061A | 01       | TE0610 | 01     | 1                | TS8   | D1                  | 23B                |                    |        |
| 02276   |        | XA247     | 44  |        |           |     |           |             |      |       |        | GND    | 01       |        |        |                  | TS8   |                     | 40A                |                    |        |
| 01044   |        | XA247     | 45  |        |           |     |           |             |      |       |        | ONW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 13048   |        | XA247     | 46  |        |           |     |           |             |      |       |        | TF062A | 02       | TE0610 | 01     | 2                | TS8   | D1                  | 21A                |                    |        |
| 12701   |        | XA247     | 47  |        |           |     |           |             |      |       |        | TE0610 | 02       | TE0610 | 00     | 1                | TS8   | D1                  | 25B                | ORED DATA INPUT    |        |
| 13049   |        | XA247     | 48  |        | XA231     | 52  |           |             | 16B  | 9     |        | TF063A | 01       | TE0610 | 01     | 3                | TS8   | D1                  | 22A                |                    |        |
| 13058   |        | XA247     | 49  |        |           |     |           |             |      |       |        | TF067A | 02       | TE0610 | 01     | 4                | TS8   | D1                  | 26B                |                    |        |
| 13052   |        | XA247     | 50  |        |           |     |           |             |      |       |        | TF064A | 02       | TE0610 | 01     | 5                | TS8   | D1                  | 23A                |                    |        |
| 01045   |        | XA247     | 51  |        |           |     |           |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 13060   |        | XA247     | 52  |        |           |     |           |             |      |       |        | TF068A | 02       | TE0610 | 01     | 6                | TS8   | D1                  | 24A                |                    |        |
| 01046   |        | XA247     | 53  |        |           |     |           |             |      |       |        | ONW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 13054   |        | XA247     | 54  |        |           |     |           |             |      |       |        | TF065A | 02       | TE0610 | 01     | 7                | TS8   | D1                  | 25A                |                    |        |
| 16196   |        | XA247     | 55  |        | XA348     | 37  |           |             | 16B  | 9     |        | TS16C0 | 02       | TS162A | 01     | 1                | TS8   | E1                  | 29B                |                    |        |
| 13055   |        | XA247     | 56  |        | XA225     | 75  |           |             | 16B  | 9     |        | TF066A | 01       | TE0610 | 01     | 8                | TS8   | D1                  | 26A                |                    |        |
| 01047   |        | XA247     | 57  |        |           |     |           |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 02277   |        | XA247     | 58  |        |           |     |           |             |      |       |        | GND    | 01       |        |        |                  | TS8   |                     |                    |                    |        |
| 16207   |        | XA247     | 59  |        |           |     |           |             |      |       |        | TS162A | 02       | TS162A | 00     | 1                | TS8   | E1                  | 31B                | S16 AND NO XFER    |        |
| 16331   |        | XA247     | 60  |        |           |     |           |             |      |       |        | TS211A | 03       | TS162A | 01     | 2                | TS8   | E1                  | 28A                |                    |        |
| 16062   |        | XA247     | 61  |        | XA344     | 68  |           |             | 16B  | 9     |        | TS113A | 02       | TS162A | 01     | 3                | TS8   | E1                  | 32B                |                    |        |
| 15770   |        | XA247     | 62  |        | XA344     | 08  |           |             | 16B  | 9     |        | TS006A | 01       | TS162A | 01     | 4                | TS8   | E1                  | 29A                |                    |        |
| CONNECTOR XA247 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |           |             |      |       |        |        |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA247  
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| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE   |             |      | SPEC INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |       | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|--------|-------------|------|----------------|---------|--------|----------|------|--------|------------------|-------|---------------------|-------------|-------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE |                |         |        |          |      |        |                  |       |                     | COLOR       | IDENT |                    |                  |
| 01048   |        | XA247     | 63  |        |           |     |        |             |      |                | DNW     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 16030   |        | XA247     | 64  |        | XA343     | 03  |        |             | 16B  | 9              | TS101A  | 01     | TS162A   | 01   | 5      | TS8              | E1    |                     |             | 30A   |                    |                  |
| 01049   |        | XA247     | 65  |        |           |     |        |             |      |                | DNW     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 16334   |        | XA247     | 66  |        | XA349     | 09  |        |             | 16B  | 9              | TS213A  | 01     | TS162A   | 01   | 6      | TS8              | E1    |                     |             | 31A   |                    |                  |
| 02278   |        | XA247     | 67  |        |           |     |        |             |      |                | GND     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 05409   |        | XA247     | 68  |        | XA244     | 66  |        |             | 16B  | 9              | SPI019  | 10     | TS162A   | 01   | 7      | TS8              | E1    |                     |             | 32A   |                    | G01              |
| 01050   |        | XA247     | 69  |        |           |     |        |             |      |                | DNW     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 16005   |        | XA247     | 70  |        | XA113     | 42  |        |             | 16B  | 9              | TS092A  | 03     | TS162A   | 01   | 8      | TS8              | E1    |                     |             | 33A   |                    | B03              |
| 16944   |        | XA247     | 71  |        |           |     |        |             |      |                | TXC0BQ  | 05     | TS231A   | 01   | 1      | TS8              | F1    |                     |             | 36A   |                    |                  |
| 16353   |        | XA247     | 72  |        | XA246     | 73  |        |             | 16B  | 9              | TS22BQ  | 05     | TS231A   | 01   | 2      | TS8              | F1    |                     |             | 34A   |                    |                  |
| 15617   |        | XA247     | 73  |        |           |     |        |             |      |                | TSA3BA  | 04     | TS231A   | 01   | 3      | TS8              | F1    |                     |             | 36B   |                    |                  |
| 15609   |        | XA247     | 74  |        |           |     |        |             |      |                | TSA2BA  | 04     | TS231A   | 01   | 4      | TS8              | F1    |                     |             | 35B   |                    |                  |
| 15598   |        | XA247     | 75  |        | XA248     | 34  |        |             | 16B  | 9              | TSA1BA  | 01     | TS231A   | 01   | 5      | TS8              | F1    |                     |             | 37B   |                    |                  |
| 16385   |        | XA247     | 76  |        | XA350     | 13  |        |             | 16B  | 9              | TS231A  | 04     | TS231A   | 00   | 1      | TS8              | F1    |                     |             | 37A   |                    | S22 AND NOT SPEC |
| 13271   |        | XA247     | 77  |        | XA144     | 38  |        |             | 16B  | 9              | TIAZA0  | 02     | TS231A   | 01   | 6      | TS8              | F1    |                     |             | 38B   |                    |                  |
| 15592   |        | XA247     | 78  |        | XA248     | 36  |        |             | 16B  | 9              | TSA0BA  | 01     | TS231A   | 01   | 7      | TS8              | F1    |                     |             | 38A   |                    |                  |
| 05408   |        | XA247     | 79  |        | XA247     | 68  |        |             | 16B  | 9              | SPI019  | 09     | TS231A   | 01   | 8      | TS8              | F1    |                     |             | 39B   |                    |                  |
| 01051   |        | XA247     | 80  |        |           |     |        |             |      |                | DNW     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 14507   |        | XA248     | 01  |        | XA151     | 33  |        |             | 16B  | 9              | TM03BP  | 03     | TM3M60   | 01   | 1      | TD4              | A2    |                     |             | 02B   |                    |                  |
| 02279   |        | XA248     | 02  |        |           |     |        |             |      |                | GND     | 01     |          |      |        |                  |       |                     |             | 01A   |                    |                  |
| 01052   |        | XA248     | 03  |        |           |     |        |             |      |                | DNW     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 14567   |        | XA248     | 04  |        | XA146     | 40  |        |             | 16B  | 9              | TM06BP  | 01     | TM3M60   | 01   | 2      | TD4              | A2    |                     |             | 04A   |                    |                  |
| 14386   |        | XA248     | 05  |        | XA136     | 52  |        |             | 16B  | 9              | TMT0BP  | 02     | TM3M60   | 01   | 3      | TD4              | A2    |                     |             | 03B   |                    |                  |
| 09710   |        | XA248     | 06  |        | XA250     | 30  |        |             | 16B  | 9              | TC031A  | 01     | TS223A   | 01   | 1      | TD4              | A1    |                     |             | 05A   |                    |                  |
| 14230   |        | XA248     | 07  |        | XA251     | 20  |        |             | 16B  | 9              | TMRUBA4 | 08     | TM3M60   | 01   | 4      | TD4              | A2    |                     |             | 03A   |                    |                  |
| 16351   |        | XA248     | 08  |        | XA251     | 37  |        |             | 16B  | 9              | TS22BQ  | 03     | TS223A   | 01   | 2      | TD4              | A1    |                     |             | 06A   |                    |                  |
| 14591   |        | XA248     | 09  |        | XA146     | 42  |        |             | 16B  | 9              | TM3M60  | 02     | TM3M60   | 00   | 1      | TD4              | A2    |                     |             | 04B   |                    | M3 + M6+ MEM. TI |
| 16384   |        | XA248     | 10  |        | XA247     | 76  |        |             | 16B  | 9              | TS231A  | 03     | TS223A   | 01   | 3      | TD4              | A1    |                     |             | 07A   |                    |                  |
| 16363   |        | XA248     | 11  |        | XA350     | 10  |        |             | 16B  | 9              | TS223A  | 01     | TS223A   | 00   | 1      | TD4              | A1    |                     |             | 05B   |                    | MEM COUNT 3.OSC* |
| 00462   |        | XA248     | 12  |        |           |     |        |             |      |                | +5V     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 05419   |        | XA248     | 13  |        | XA247     | 20  |        |             | 16B  | 9              | SPI019  | 20     | TS223A   | 01   | 4      | TD4              | A1    |                     |             | 06B   |                    |                  |
| 14353   |        | XA248     | 14  |        |           |     |        |             |      |                | TMTC1P  | 02     | TMTOAA   | 01   | 1      | TD4              | B2    |                     |             | 09A   |                    |                  |
| 01053   |        | XA248     | 15  |        |           |     |        |             |      |                | DNW     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 02280   |        | XA248     | 16  |        |           |     |        |             |      |                | GND     | 01     |          |      |        |                  |       |                     |             | 20B   |                    |                  |
| 01054   |        | XA248     | 17  |        |           |     |        |             |      |                | DNW     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 14350   |        | XA248     | 18  |        | XA151     | 13  |        |             | 16B  | 9              | TMTCOQ  | 01     | TMTOAA   | 01   | 2      | TD4              | B2    |                     |             | 10A   |                    |                  |
| 14356   |        | XA248     | 19  |        | XA151     | 09  |        |             | 16B  | 9              | TMTC2P  | 01     | TMTOAA   | 01   | 3      | TD4              | B2    |                     |             | 09B   |                    |                  |
| 14371   |        | XA248     | 20  |        | XA251     | 13  |        |             | 16B  | 9              | TMTIMQ  | 01     | TMTOAA   | 01   | 4      | TD4              | B2    |                     |             | 11A   |                    |                  |
| 14383   |        | XA248     | 21  |        | XA251     | 03  |        |             | 16B  | 9              | TMT0AA  | 01     | TMTOAA   | 00   | 1      | TD4              | B2    |                     |             | 10B   |                    | MEMORY TIME OUT  |
| 04968   |        | XA248     | 22  |        | XA147     | 77  |        |             | 16B  | 9              | SPI004  | 03     |          | 01   | 1      | TD4              | B1    |                     |             | 12A   |                    |                  |
| 07887   |        | XA248     | 23  |        |           |     |        |             |      |                | SPO     | 01     |          | 00   | 1      | TD4              | B1    |                     |             | 11B   |                    |                  |
| 05429   |        | XA248     | 24  |        | XA251     | 17  |        |             | 16B  | 9              | SPI020  | 02     |          | 01   | 2      | TD4              | B1    |                     |             | 13A   |                    |                  |
| 05366   |        | XA248     | 25  |        | XA249     | 26  |        |             | 16B  | 9              | SPI018  | 02     |          | 01   | 3      | TD4              | B1    |                     |             | 12B   |                    |                  |
| 05421   |        | XA248     | 26  |        | XA249     | 24  |        |             | 16B  | 9              | SPI019  | 22     |          | 01   | 4      | TD4              | B1    |                     |             | 14A   |                    |                  |
| 01055   |        | XA248     | 27  |        |           |     |        |             |      |                | DNW     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 00463   |        | XA248     | 28  |        |           |     |        |             |      |                | +5V     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 01056   |        | XA248     | 29  |        |           |     |        |             |      |                | DNW     | 01     |          |      |        |                  |       |                     |             |       |                    |                  |
| 15616   |        | XA248     | 30  |        | XA247     | 73  |        |             | 16B  | 9              | TSA3BA  | 03     | TC0320   | 01   | 1      | TD4              | C2    |                     |             | 15A   |                    |                  |
| CONNECTOR XA248 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |        |             |      |                |         |        |          |      |        |                  |       |                     |             |       |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA248  
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| RECORD NUMBER  | FROM   |                |          |    | TO     |           |     |    | WIRE        |      |       |       | SPL INST WIRE | SIGNAL           | SNO      | EQUATION | TERM     | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|----------------|--------|----------------|----------|----|--------|-----------|-----|----|-------------|------|-------|-------|---------------|------------------|----------|----------|----------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|                | PREFIX | CONNECTOR      | PIN      | SH | PREFIX | CONNECTOR | PIN | SH | MULTI GROUP | CODE | COLOR | IDENT |               |                  |          |          |          |        |                  |       |                     |                    |                    |        |
| 15608<br>02281 |        | XA248<br>XA248 | 31<br>32 |    |        | XA247     | 74  |    |             | 16B  | 9     |       |               | TS2A2BA<br>GND   | 03<br>01 | TC0320   | 01       | 2      | T04<br>TD4       | C2    |                     | 15B<br>21B         |                    |        |
| 09714<br>15599 |        | XA248<br>XA248 | 33<br>34 |    |        | XA246     | 71  |    |             | 16B  | 9     |       |               | TC0320<br>TSA1BA | 01<br>02 | TC0320   | 00<br>01 | 1<br>3 | T04<br>TD4       | C2    |                     | 16B<br>16A         | OFRO+OFR1+OFR2+O   |        |
| 08199<br>15593 |        | XA248<br>XA248 | 35<br>36 |    |        | XA127     | 49  |    |             | 16B  | 9     |       |               | TACKA0<br>TSA0BA | 01<br>02 | TACKA0   | 00<br>01 | 1<br>4 | T04<br>TD4       | C1    |                     | 17B<br>17A         | ACK FOR CPU CMDS   |        |
| 15777<br>15776 |        | XA248<br>XA248 | 37<br>38 |    |        | XA344     | 01  |    |             | 16B  | 9     |       |               | TS008A<br>TS007A | 01<br>04 | TACKA0   | 01<br>01 | 1<br>2 | T04<br>TD4       | C1    |                     | 18B<br>18A         |                    |        |
| 01057<br>16358 |        | XA248<br>XA248 | 39<br>40 |    |        | XA350     | 09  |    |             | 16B  | 9     |       |               | DNW<br>TS22FA    | 01<br>01 | TACKA0   | 01       | 3      | TD4              | C1    |                     | 19A                |                    |        |
| 01058<br>16469 |        | XA248<br>XA248 | 41<br>42 |    |        | XA251     | 69  |    |             | 16B  | 9     |       |               | DNW<br>TS29BP    | 01<br>01 | TACKA0   | 01       | 4      | TD4              | C1    |                     | 20A                |                    |        |
| 11928<br>02282 |        | XA248<br>XA248 | 43<br>44 |    |        | XA226     | 45  |    |             | 16B  | 9     |       |               | YD18BP<br>GND    | 02<br>01 | TS113A   | 01       | 1      | TD4<br>TD4       | D2    |                     | 23B<br>27A         |                    |        |
| 16061<br>16195 |        | XA248<br>XA248 | 45<br>46 |    |        | XA247     | 61  |    |             | 16B  | 9     |       |               | TS113A<br>TS16C0 | 01<br>01 | TS113A   | 00<br>01 | 1<br>2 | TD4<br>TD4       | D2    |                     | 24B<br>21A         | P BIT.NO Q ACCES   |        |
| 16539<br>11898 |        | XA248<br>XA248 | 47<br>48 |    |        | XA250     | 05  |    |             | 16B  | 9     |       |               | TS9Q1A<br>TD17BQ | 01<br>05 | TS9Q1A   | 00<br>01 | 1<br>3 | TD4<br>TD4       | D1    |                     | 25B<br>22A         | S9.Q BIT=1(RTCO    |        |
| 10376<br>09696 |        | XA248<br>XA248 | 49<br>50 |    |        | XA345     | 07  |    |             | 16B  | 9     |       |               | TC18BQ<br>TC0170 | 01<br>08 | TS9Q1A   | 01<br>01 | 1<br>4 | TD4<br>TD4       | D1    |                     | 26B<br>23A         |                    |        |
| 01059<br>15988 |        | XA248<br>XA248 | 51<br>52 |    |        | XA350     | 19  |    |             | 16B  | 9     |       |               | DNW<br>TS09BQ    | 01<br>02 | TS9Q1A   | 01       | 2      | TD4              | D1    |                     | 24A                |                    |        |
| 01060<br>09190 |        | XA248<br>XA248 | 53<br>54 |    |        | XA144     | 42  |    |             | 16B  | 9     |       |               | DNW<br>TBST2A    | 01<br>03 | TS9Q1A   | 01       | 3      | TD4              | D1    |                     | 25A                |                    |        |
| 13092<br>15264 |        | XA248<br>XA248 | 55<br>56 |    |        | XA219     | 69  |    |             | 16B  | 9     |       |               | TF098A<br>TRC160 | 02<br>03 | TE0910   | 01<br>01 | 1<br>4 | TD4<br>TD4       | E2    |                     | 29B<br>26A         |                    |        |
| 12727<br>02283 |        | XA248<br>XA248 | 57<br>58 |    |        | XA244     | 62  |    |             | 16B  | 9     |       |               | TE0910<br>GND    | 01<br>01 | TE0910   | 00       | 1      | TD4<br>TD4       | E2    |                     | 30B<br>40A         | ORED DATA INPUT    |        |
| 12722<br>13088 |        | XA248<br>XA248 | 59<br>60 |    |        | XA244     | 68  |    |             | 16B  | 9     |       |               | TE0810<br>TF092A | 01<br>02 | TE0810   | 00<br>01 | 1<br>2 | TD4<br>TD4       | E1    |                     | 31B<br>28A         | ORED DATA INPUT    |        |
| 13084<br>13085 |        | XA248<br>XA248 | 61<br>62 |    |        | XA233     | 09  |    |             | 16B  | 9     |       |               | TF088A<br>TF091A | 02<br>01 | TE0810   | 01<br>01 | 1<br>3 | TD4<br>TD4       | E1    |                     | 32B<br>29A         |                    |        |
| 01061<br>13089 |        | XA248<br>XA248 | 63<br>64 |    |        | XA230     | 60  |    |             | 16B  | 9     |       |               | DNW<br>TF093A    | 01<br>01 | TE0910   | 01       | 4      | TD4              | E2    |                     | 30A                |                    |        |
| 01062<br>13077 |        | XA248<br>XA248 | 65<br>66 |    |        | XA233     | 06  |    |             | 16B  | 9     |       |               | DNW<br>TF081A    | 01<br>01 | TE0810   | 01       | 2      | TD4              | E1    |                     | 31A                |                    |        |
| 02284<br>13080 |        | XA248<br>XA248 | 67<br>68 |    |        |           |     |    |             |      |       |       |               | GND<br>TF082A    | 01<br>02 | TE0810   | 01       | 3      | TD4              | E1    |                     | 40B<br>32A         |                    |        |
| 12738<br>13081 |        | XA248<br>XA248 | 69<br>70 |    |        | XA230     | 66  |    |             | 16B  | 9     |       |               | TE1110<br>TF083A | 02<br>01 | TE1110   | 00<br>01 | 1<br>4 | TD4<br>TD4       | F2    |                     | 35A<br>33A         | ORED DATA INPUT    |        |
| 13108<br>13104 |        | XA248<br>XA248 | 71<br>72 |    |        |           |     |    |             |      |       |       |               | TF118A<br>TF112A | 02<br>02 | TE1110   | 01<br>01 | 1<br>2 | TD4<br>TD4       | F2    |                     | 36A<br>34A         |                    |        |
| 13101<br>13105 |        | XA248<br>XA248 | 73<br>74 |    |        | XA233     | 21  |    |             | 16B  | 9     |       |               | TF111A<br>TF113A | 01<br>01 | TE1110   | 01<br>01 | 3<br>4 | TD4<br>TD4       | F2    |                     | 36B<br>35B         |                    |        |
| 13097<br>12732 |        | XA248<br>XA248 | 75<br>76 |    |        | XA231     | 72  |    |             | 16B  | 9     |       |               | TF103A<br>TE1010 | 01<br>01 | TE1010   | 01<br>00 | 1<br>1 | TD4<br>TD4       | F1    |                     | 37B<br>37A         | ORED DATA INPUT    |        |
| 13093<br>13100 |        | XA248<br>XA248 | 77<br>78 |    |        | XA233     | 22  |    |             | 16B  | 9     |       |               | TF101A<br>TF108A | 01<br>02 | TE1010   | 01<br>01 | 2<br>3 | TD4<br>TD4       | F1    |                     | 38B<br>38A         |                    |        |
| 13096<br>01063 |        | XA248<br>XA248 | 79<br>80 |    |        |           |     |    |             |      |       |       |               | TF102A<br>DNW    | 02<br>01 | TE1010   | 01       | 4      | TD4              | F1    |                     | 39B                |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA249  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 169

| RECORD NUMBER                                   | FROM   |           |     |        | TO     |           |     |        | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQU. TION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|--------|-----------|-----|--------|-------------|------|-------|-------|---------|--------|-----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | U.S. # | PREFIX | CONNECTOR | PIN | U.S. # | MULTI GROUP | CODE | COLOR | IDENT |         |        |           |             |                  |       |                     |                    |                    |        |
| 03802   |        | XA249     | 01  |        |        |           |     |        |             |      |       |       | JSTPAD4 | 03     | JSTPAD4   | 00          | 1                | TLD   | A2                  | 02B                | STOP CPU           |        |
| 02285   |        | XA249     | 02  |        |        |           |     |        |             |      |       |       | GND     | 01     |           |             |                  | TLD   |                     | 01A                |                    |        |
| 05425   |        | XA249     | 03  |        | XA242  | 06        |     |        | 16B         | 9    |       |       | SPI019  | 26     |           |             | 01               | 1     | TLD                 | A3                 | 02A                |        |
| 12933   |        | XA249     | 04  |        |        |           |     |        |             |      |       |       | TFIOCO  | 06     | JSTPAD4   | 01          | 1                | TLD   | A2                  | 04A                | CPU J              |        |
| 12925   |        | XA249     | 05  |        |        |           |     |        |             |      |       |       | TFIOCR  | 03     | JSTPAD4   | 01          | 2                | TLD   | A2                  | 03B                |                    |        |
| 03799   |        | XA249     | 06  |        |        |           |     |        |             |      |       |       | JSSGAD4 | 03     | JSSGAD4   | 00          | 1                | TLD   | A1                  | 05A                | START SIGNAL DRI   |        |
| 05369   |        | XA249     | 07  |        | XA247  | 06        |     |        | 16B         | 9    |       |       | SPI018  | 05     |           |             | 01               | 2     | TLD                 | A3                 | 03A                |        |
| 15660   |        | XA249     | 08  |        | XA439  | 66        |     |        | 16B         | 9    |       |       | TSS100  | 01     | JSSGAD4   | 01          | 1                | TLD   | A1                  | 06A                | TO UPPER CPU       | 805    |
| 20369   |        | XA249     | 09  |        |        |           |     |        |             |      | M     |       | SP0007  | 01     |           |             | 00               | 1     | TLD                 | A3                 | 04B                |        |
| 05423   |        | XA249     | 10  |        | XA249  | 11        |     |        | 16B         | 9    |       |       | SPI019  | 24     | JSSGAD4   | 01          | 2                | TLD   | A1                  | 07A                |                    |        |
| 05424   |        | XA249     | 11  |        | XA249  | 03        |     |        | 16B         | 9    |       |       | SPI019  | 25     |           |             | 01               | 1     | TLD                 | A4                 | 05B                |        |
| 00464   |        | XA249     | 12  |        |        |           |     |        |             |      |       |       | +5V     | 01     |           |             |                  | TLD   |                     |                    |                    |        |
| 05368   |        | XA249     | 13  |        | XA249  | 07        |     |        | 16B         | 9    |       |       | SPI018  | 04     |           |             | 01               | 2     | TLD                 | A4                 | 06B                |        |
| 03674   |        | XA249     | 14  |        | XA413  | 66        |     |        | 16B         | 9    |       |       | TS23SD  | 00     | JDB23B4   | 02          | 1                | TLD   | B2                  | 09A                | TS23 TO CPU        | C07    |
| 16379   |        | XA249     | 14  |        |        |           |     |        |             |      | J     |       | TS23SD  | 01     | TS23SD    | 00          | 1                | TLD   | B2                  | 09A                | JDB23B4 BUSS       |        |
| 20370   |        | XA249     | 15  |        |        |           |     |        |             |      | M     |       | SP0008  | 01     |           |             | 00               | 1     | TLD                 | A4                 | 07B                |        |
| 02286   |        | XA249     | 16  |        |        |           |     |        |             |      |       |       | GND     | 01     |           |             |                  | TLD   |                     |                    | 01B                |        |
| 16680   |        | XA249     | 17  |        | XA249  | 25        |     |        | 16B         | 9    |       |       | TTSM20  | 02     | TS24SD    | 01          | 1                | TLD   | B3                  | 08B                |                    |        |
| 16679   |        | XA249     | 18  |        | XA249  | 17        |     |        | 16B         | 9    |       |       | TTSM20  | 01     | TS23SD    | 01          | 1                | TLD   | B2                  | 10A                |                    |        |
| 16399   |        | XA249     | 19  |        | XA251  | 49        |     |        | 16B         | 9    |       |       | TS24BQ  | 03     | TS24SD    | 01          | 2                | TLD   | B3                  | 09B                |                    |        |
| 16375   |        | XA249     | 20  |        | XA251  | 31        |     |        | 16B         | 9    |       |       | TS23BQ  | 03     | TS23SD    | 01          | 2                | TLD   | B2                  | 11A                |                    |        |
| 03680   |        | XA249     | 21  |        | XA413  | 60        |     |        | 16B         | 9    |       | P     | TS24SD  | 00     | JDB24B4   | 02          | 1                | TLD   | B3                  | 10B                | TS24 TO CPU        | C07    |
| 16404   |        | XA249     | 21  |        |        |           |     |        |             |      | J     |       | TS24SD  | 01     | TS24SD    | 00          | 1                | TLD   | B3                  | 10B                | JDB24B4 BUSS       |        |
| 20371   |        | XA249     | 22  |        |        |           |     |        |             |      | M     |       | SP0009  | 01     |           |             | 00               | 1     | TLD                 | B1                 | 12A                |        |
| 16405   |        | XA249     | 23  |        | XA251  | 43        |     |        | 16B         | 9    |       |       | TS25BQ  | 01     | TS25SD    | 01          | 1                | TLD   | B4                  | 11B                |                    |        |
| 05422   |        | XA249     | 24  |        | XA249  | 10        |     |        | 16B         | 9    |       |       | SPI019  | 23     |           |             | 01               | 1     | TLD                 | B1                 | 13A                |        |
| 16681   |        | XA249     | 25  |        | XA249  | 40        |     |        | 16B         | 9    |       |       | TTSM20  | 03     | TS25SD    | 01          | 2                | TLD   | B4                  | 12B                |                    |        |
| 05367   |        | XA249     | 26  |        | XA249  | 13        |     |        | 16B         | 9    |       |       | SPI018  | 03     |           |             | 01               | 2     | TLD                 | B1                 | 14A                |        |
| 03686   |        | XA249     | 27  |        | XA413  | 57        |     |        | 16B         | 9    |       | P     | TS25SD  | 00     | JDB25B4   | 02          | 1                | TLD   | B4                  | 13B                | TS25 TO CPU        | C07    |
| 16411   |        | XA249     | 27  |        |        |           |     |        |             |      | J     |       | TS25SD  | 01     | TS25SD    | 00          | 1                | TLD   | B4                  | 13B                | JDB25B4 BUSS       |        |
| 00465   |        | XA249     | 28  |        |        |           |     |        |             |      |       |       | +5V     | 01     |           |             |                  | TLD   |                     |                    |                    |        |
| 16693   |        | XA249     | 29  |        | XA249  | 34        |     |        | 16B         | 9    |       |       | TTSM30  | 07     | TS28SD    | 01          | 1                | TLD   | C3                  | 14B                |                    |        |
| 03693   |        | XA249     | 30  |        |        |           |     |        |             |      | P     |       | TS27SD  | 07     | JDB27B4   | 02          | 1                | TLD   | C2                  | 15A                | TS27 TO CTS        | C07    |
| 16441   |        | XA249     | 30  |        |        |           |     |        |             |      | J     |       | TS27SD  | 01     | TS27SD    | 00          | 1                | TLD   | C2                  | 15A                | JDB27B4 BUSS       |        |
| 16458   |        | XA249     | 31  |        | XA225  | 05        |     |        | 16B         | 9    |       |       | TS28BQ  | 06     | TS28SD    | 01          | 2                | TLD   | C3                  | 15B                |                    |        |
| 02287   |        | XA249     | 32  |        |        |           |     |        |             |      |       |       | GND     | 01     |           |             |                  | TLD   |                     |                    | 21B                |        |
| 03704   |        | XA249     | 33  |        | XA413  | 72        |     |        | 16B         | 9    |       | P     | TS28SD  | 00     | JDB28B4   | 02          | 1                | TLD   | C3                  | 16B                | TS28 TO CPU        | C07    |
| 16468   |        | XA249     | 33  |        |        |           |     |        |             |      | J     |       | TS28SD  | 01     | TS28SD    | 00          | 1                | TLD   | C3                  | 16B                | JDB28B4 BUSS       |        |
| 16694   |        | XA249     | 34  |        |        |           |     |        |             |      |       |       | TTSM30  | 08     | TS27SD    | 01          | 1                | TLD   | C2                  | 16A                |                    |        |
| 16692   |        | XA249     | 35  |        | XA249  | 29        |     |        | 16B         | 9    |       |       | TTSM30  | 06     | TS29SD    | 01          | 1                | TLD   | C4                  | 17B                |                    |        |
| 16437   |        | XA249     | 36  |        | XA251  | 55        |     |        | 16B         | 9    |       |       | TS27BQ  | 01     | TS27SD    | 01          | 2                | TLD   | C2                  | 17A                |                    |        |
| 16472   |        | XA249     | 37  |        | XA251  | 74        |     |        | 16B         | 9    |       |       | TS29BQ  | 01     | TS29SD    | 01          | 2                | TLD   | C4                  | 18B                |                    |        |
| 03687   |        | XA249     | 38  |        |        |           |     |        |             |      | P     |       | TS26SD  | 07     | JDB26B4   | 02          | 1                | TLD   | C1                  | 18A                | TS26 TO CPU        | C07    |
| 16422   |        | XA249     | 38  |        |        |           |     |        |             |      | J     |       | TS26SD  | 01     | TS26SD    | 00          | 1                | TLD   | C1                  | 18A                | JDB26B4 BUSS       |        |
| 03710   |        | XA249     | 39  |        | XA413  | 69        |     |        | 16B         | 9    |       | P     | TS29SD  | 00     | JDB29B4   | 02          | 1                | TLD   | C4                  | 19B                | TS29 TO CPU        | C07    |
| 16479   |        | XA249     | 39  |        |        |           |     |        |             |      | J     |       | TS29SD  | 01     | TS29SD    | 00          | 1                | TLD   | C4                  | 19B                | JDB29B4 BUSS       |        |
| 16682   |        | XA249     | 40  |        | XA245  | 48        |     |        | 16B         | 9    |       |       | TTSM20  | 04     | TS26SD    | 01          | 1                | TLD   | C1                  | 19A                |                    |        |
| 05503   |        | XA249     | 41  |        | XA249  | 47        |     |        | 16B         | 9    |       |       | SPI022  | 16     |           |             | 01               | 1     | TLD                 | D3                 | 22B                |        |
| 16418   |        | XA249     | 42  |        | XA251  | 61        |     |        | 16B         | 9    |       |       | TS26BQ  | 01     | TS26SD    | 01          | 2                | TLD   | C1                  | 20A                |                    |        |
| 05471   |        | XA249     | 43  |        | XA251  | 41        |     |        | 16B         | 9    |       |       | SPI021  | 16     |           |             | 01               | 2     | TLD                 | D3                 | 23B                |        |
| CONNECTOR XA249 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |           |     |        |             |      |       |       |         |        |           |             |                  |       |                     |                    |                    |        |

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| RECORD NUMBER                                     | FROM   |           |     | WIRE | TO     |           |     | MULTI GROUP | LODE | COLOR | IDENT | SFC INST. USE | SIGNAL | SEQ NO | EQUATION | TERM | FACTORY | CKT OR CHIP TYPE | GRD? | LOAD OR POWER PL. LINE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |                  |
|---|--------|-----------|-----|------|--------|-----------|-----|-------------|------|-------|-------|---------------|--------|--------|----------|------|---------|------------------|------|------------------------|--------------------|--------------------|--------|------------------|
|   | PREFIX | CONNECTOR | PIN |      | PREFIX | CONNECTOR | PIN |             |      |       |       |               |        |        |          |      |         |                  |      |                        |                    |                    |        |                  |
| 02288   |        | XA249     | 44  |      |        |           |     |             |      |       |       | M             | GND    | 01     |          |      |         | TLD              |      |                        | 27A                |                    |        |                  |
| 20374   |        | XA249     | 45  |      |        |           |     |             |      |       |       |               | SP0012 | 01     |          |      | 00      | 1                | TLD  | D3                     |                    | 24B                |        |                  |
| 20373   |        | XA249     | 46  |      |        |           |     |             |      |       |       | M             | SP0011 | 01     |          |      | 00      | 1                | TLD  | D2                     |                    | 21A                |        |                  |
| 05504   |        | XA249     | 47  |      | XA249  | 48        |     |             | 168  | 9     |       |               | SPI022 | 17     |          |      | 01      | 1                | TLD  | D4                     |                    | 25B                |        |                  |
| 05505   |        | XA249     | 48  |      | XA251  | 53        |     |             | 168  | 9     |       |               | SPI022 | 18     |          |      | 01      | 1                | TLD  | D2                     |                    | 22A                |        |                  |
| 05470   |        | XA249     | 49  |      | XA249  | 43        |     |             | 168  | 9     |       |               | SPI021 | 15     |          |      | 01      | 2                | TLD  | D4                     |                    | 26B                |        |                  |
| 05467   |        | XA249     | 50  |      | XA249  | 56        |     |             | 168  | 9     |       |               | SPI021 | 12     |          |      | 01      | 2                | TLD  | D2                     |                    | 23A                |        |                  |
| 20375   |        | XA249     | 51  |      |        |           |     |             |      |       |       | M             | SP0013 | 01     |          |      | 00      | 1                | TLD  | D4                     |                    | 27B                |        |                  |
| 20372   |        | XA249     | 52  |      |        |           |     |             |      |       |       | M             | SP0010 | 01     |          |      | 00      | 1                | TLD  | D1                     |                    | 24A                |        |                  |
| 05469   |        | XA249     | 53  |      | XA249  | 49        |     |             | 168  | 9     |       |               | SPI021 | 14     |          |      | 01      | 1                | TLD  | E3                     |                    | 28B                |        |                  |
| 05365   |        | XA249     | 54  |      | XA248  | 25        |     |             | 168  | 9     |       |               | SPI018 | 01     |          |      | 01      | 1                | TLD  | D1                     |                    | 25A                |        |                  |
| 05510   |        | XA249     | 55  |      | XA249  | 65        |     |             | 168  | 9     |       |               | SPI022 | 23     |          |      | 01      | 2                | TLD  | E3                     |                    | 29B                |        |                  |
| 05468   |        | XA249     | 56  |      | XA249  | 53        |     |             | 168  | 9     |       |               | SPI021 | 13     |          |      | 01      | 2                | TLD  | D1                     |                    | 26A                |        |                  |
| 20378   |        | XA249     | 57  |      |        |           |     |             |      |       |       | M             | SP0016 | 01     |          |      | 00      | 1                | TLD  | E3                     |                    | 30B                |        |                  |
| 02289   |        | XA249     | 58  |      |        |           |     |             |      |       |       |               | GND    | 01     |          |      |         |                  | TLD  |                        |                    | 40A                |        |                  |
| 05509   |        | XA249     | 59  |      | XA249  | 55        |     |             | 168  | 9     |       |               | SPI022 | 22     |          |      | 01      | 1                | TLD  | E4                     |                    | 31B                |        |                  |
| 20377   |        | XA249     | 60  |      |        |           |     |             |      |       |       | M             | SP0015 | 01     |          |      | 00      | 1                | TLD  | E2                     |                    | 28A                |        |                  |
| 05460   |        | XA249     | 61  |      | XA249  | 71        |     |             | 168  | 9     |       |               | SPI021 | 05     |          |      | 01      | 2                | TLD  | E4                     |                    | 32B                |        |                  |
| 05508   |        | XA249     | 62  |      | XA249  | 59        |     |             | 168  | 9     |       |               | SPI022 | 21     |          |      | 01      | 1                | TLD  | E2                     |                    | 29A                |        |                  |
| 20379   |        | XA249     | 63  |      |        |           |     |             |      |       |       | M             | SP0017 | 01     |          |      | 00      | 1                | TLD  | E4                     |                    | 33B                |        |                  |
| 05466   |        | XA249     | 64  |      | XA249  | 50        |     |             | 168  | 9     |       |               | SPI021 | 11     |          |      | 01      | 2                | TLD  | E2                     |                    | 30A                |        |                  |
| 05511   |        | XA249     | 65  |      | XA249  | 70        |     |             | 168  | 9     |       |               | SPI022 | 24     |          |      | 01      | 1                | TLD  | F3                     |                    | 34B                |        |                  |
| 20376   |        | XA249     | 66  |      |        |           |     |             |      |       |       | M             | SP0014 | 01     |          |      | 00      | 1                | TLD  | E1                     |                    | 31A                |        |                  |
| 02290   |        | XA249     | 67  |      |        |           |     |             |      |       |       |               | GND    | 01     |          |      |         |                  | TLD  |                        |                    |                    |        |                  |
| 05465   |        | XA249     | 68  |      | XA249  | 64        |     |             | 168  | 9     |       |               | SPI021 | 10     |          |      | 01      | 1                | TLD  | E1                     |                    | 32A                |        |                  |
| 20382   |        | XA249     | 69  |      |        |           |     |             |      |       |       | M             | SP0020 | 01     |          |      | 00      | 1                | TLD  | F3                     |                    | 35A                |        |                  |
| 05512   |        | XA249     | 70  |      | XA249  | 78        |     |             | 168  | 9     |       |               | SPI022 | 25     |          |      | 01      | 2                | TLD  | E1                     |                    | 33A                |        |                  |
| 05461   |        | XA249     | 71  |      | XA249  | 77        |     |             | 168  | 9     |       |               | SPI021 | 06     |          |      | 01      | 1                | TLD  | F2                     |                    | 36A                |        |                  |
| 20381   |        | XA249     | 72  |      |        |           |     |             |      |       |       | M             | SP0019 | 01     |          |      | 00      | 1                | TLD  | F2                     |                    | 34A                |        |                  |
| 05515   |        | XA249     | 73  |      | XA249  | 79        |     |             | 168  | 9     |       |               | SPI022 | 28     |          |      | 01      | 2                | TLD  | F2                     |                    | 36B                |        |                  |
| 05464   |        | XA249     | 74  |      | XA249  | 68        |     |             | 168  | 9     |       |               | SPI021 | 09     |          |      | 01      | 2                | TLD  | F3                     |                    | 35B                |        |                  |
| 20380   |        | XA249     | 75  |      |        |           |     |             |      |       |       | M             | SP0018 | 01     |          |      | 00      | 1                | TLD  | F1                     |                    | 37B                |        |                  |
| 05463   |        | XA249     | 76  |      | XA249  | 74        |     |             | 168  | 9     |       |               | SPI021 | 08     |          |      | 01      | 1                | TLD  | F4                     |                    | 37A                |        |                  |
| 05462   |        | XA249     | 77  |      | XA249  | 76        |     |             | 168  | 9     |       |               | SPI021 | 07     |          |      | 01      | 1                | TLD  | F1                     |                    | 38B                |        |                  |
| 05513   |        | XA249     | 78  |      | XA249  | 73        |     |             | 168  | 9     |       |               | SPI022 | 26     |          |      | 01      | 2                | TLD  | F4                     |                    | 38A                |        |                  |
| 05516   |        | XA249     | 79  |      | XA251  | 80        |     |             | 168  | 9     |       |               | SPI022 | 29     |          |      | 01      | 2                | TLD  | F1                     |                    | 39B                |        | C05              |
| 20383   |        | XA249     | 80  |      |        |           |     |             |      |       |       | M             | SP0021 | 01     |          |      | 00      | 1                | TLD  | F4                     |                    | 39A                |        |                  |
| 16521   |        | XA250     | 01  |      | XA343  | 74        |     |             | 168  | 9     |       |               | TS7BZA | 01     | TM0110   |      | 01      | 1                | TS8  | A1                     |                    | 02B                |        |                  |
| 02291   |        | XA250     | 02  |      |        |           |     |             |      |       |       |               | GND    | 01     |          |      |         |                  | TS8  |                        |                    | 01A                |        |                  |
| 01064   |        | XA250     | 03  |      |        |           |     |             |      |       |       |               | DNW    | 01     |          |      |         |                  | TS8  |                        |                    |                    |        |                  |
| 16111   |        | XA250     | 04  |      | XA343  | 20        |     |             | 168  | 9     |       |               | TS131A | 01     | TM0110   |      | 01      | 2                | TS8  | A1                     |                    | 04A                |        |                  |
| 16540   |        | XA250     | 05  |      |        |           |     |             |      |       |       |               | TS9Q1A | 02     | TM0110   |      | 01      | 3                | TS8  | A1                     |                    | 03B                |        |                  |
| 16513   |        | XA250     | 06  |      |        |           |     |             |      |       |       |               | TS5AVA | 02     | TM0110   |      | 01      | 4                | TS8  | A1                     |                    | 05A                |        |                  |
| 16178   |        | XA250     | 07  |      | XA346  | 21        |     |             | 168  | 9     |       |               | TS153A | 01     | TM0110   |      | 01      | 5                | TS8  | A1                     |                    | 03A                |        |                  |
| 15682   |        | XA250     | 08  |      | XA122  | 52        |     |             | 168  | 9     |       |               | TSTB1A | 01     | TM0110   |      | 01      | 6                | TS8  | A1                     |                    | 06A                |        |                  |
| 01065   |        | XA250     | 09  |      |        |           |     |             |      |       |       |               | DNW    | 01     |          |      |         |                  | TS8  |                        |                    |                    |        |                  |
| 16205   |        | XA250     | 10  |      |        |           |     |             |      |       |       |               | TS161A | 02     | TM0110   |      | 01      | 7                | TS8  | A1                     |                    | 07A                |        |                  |
| 14481   |        | XA250     | 11  |      |        |           |     |             |      |       |       |               | TM0110 | 02     | TM0110   |      | 00      | 1                | TS8  | A1                     |                    | 05B                |        | OR'D SELECT M1 C |
| CONNECTOR (XA250) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |             |      |       |       |               |        |        |          |      |         |                  |      |                        |                    |                    |        |                  |

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| RECORD NUMBER                                     | FROM   |           |     |    | TO     |           |     |    | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GHOM | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|--------|-----------|-----|----|------|-------------|------|-------|--------|--------|----------|------|--------|------------------|------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | NO | PREFIX | CONNECTOR | PIN | NO | SIZE | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |      |                     |                    |                    |        |
| 00466   |        | XA250     | 12  |    |        |           |     |    |      |             |      |       | +5V    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 16484   |        | XA250     | 13  |    | XA245  | 59        |     |    |      | 16B         | 9    |       | TS3MOA | 02     | TM0110   | 01   | 8      | TS8              |      |                     | 06B                |                    |        |
| 09666   |        | XA250     | 14  |    |        |           |     |    |      |             |      |       | TC013A | 05     | TCD2A0   | 01   | 1      | TS8              | B1   |                     | 09A                |                    |        |
| 01066   |        | XA250     | 15  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 02292   |        | XA250     | 16  |    |        |           |     |    |      |             |      |       | GND    | 01     |          |      |        |                  |      |                     | 21B                |                    |        |
| 01067   |        | XA250     | 17  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 09653   |        | XA250     | 18  |    | XA245  | 03        |     |    |      | 16B         | 9    |       | TC011A | 02     | TCD2A0   | 01   | 2      | TS8              | B1   |                     | 10A                |                    |        |
| 09658   |        | XA250     | 19  |    | XA250  | 42        |     |    |      | 16B         | 9    |       | TC012A | 01     | TCD2A0   | 01   | 3      | TS8              | B1   |                     | 09B                |                    |        |
| 16446   |        | XA250     | 20  |    | XA250  | 38        |     |    |      | 16B         | 9    |       | TS28BP | 01     | TCD2A0   | 01   | 4      | TS8              | B1   |                     | 11A                |                    |        |
| 01068   |        | XA250     | 21  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 05499   |        | XA250     | 22  |    | XA251  | 29        |     |    |      | 16B         | 9    |       | SPI022 | 12     | TCD2A0   | 01   | 5      | TS8              | B1   |                     | 12A                |                    | 006    |
| 09702   |        | XA250     | 23  |    |        |           |     |    |      |             |      |       | TC02A0 | 05     | TCD2A0   | 00   | 1      | TS8              | B1   |                     | 11B                | TD0031-TC0031+TD   |        |
| 05431   |        | XA250     | 24  |    | XA251  | 65        |     |    |      | 16B         | 9    |       | SPI020 | 04     | TCD2A0   | 01   | 6      | TS8              | B1   |                     | 13A                |                    |        |
| 05475   |        | XA250     | 25  |    | XA251  | 05        |     |    |      | 16B         | 9    |       | SPI021 | 20     | TCD2A0   | 01   | 7      | TS8              | B1   |                     | 12B                |                    | 006    |
| 09668   |        | XA250     | 26  |    | XA250  | 40        |     |    |      | 16B         | 9    |       | TC014A | 02     | TCD2A0   | 01   | 8      | TS8              | B1   |                     | 14A                |                    |        |
| 01069   |        | XA250     | 27  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 00467   |        | XA250     | 28  |    |        |           |     |    |      |             |      |       | +5V    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 01070   |        | XA250     | 29  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 09711   |        | XA250     | 30  |    | XA246  | 72        |     |    |      | 16B         | 9    |       | TC031A | 02     | TCD3A0   | 01   | 1      | TS8              | C1   |                     | 15A                |                    |        |
| 05474   |        | XA250     | 31  |    | XA250  | 25        |     |    |      | 16B         | 9    |       | SPI021 | 19     | TCD3A0   | 01   | 2      | TS8              | C1   |                     | 15B                |                    |        |
| 02293   |        | XA250     | 32  |    |        |           |     |    |      |             |      |       | GND    | 01     |          |      |        |                  |      |                     | 27A                |                    |        |
| 01071   |        | XA250     | 33  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 09652   |        | XA250     | 34  |    | XA250  | 18        |     |    |      | 16B         | 9    |       | TC011A | 01     | TCD3A0   | 01   | 3      | TS8              | C1   |                     | 16A                |                    |        |
| 09709   |        | XA250     | 35  |    |        |           |     |    |      |             |      |       | TC03A0 | 03     | TCD3A0   | 00   | 1      | TS8              | C1   |                     | 17B                | TD2431-TC2431 XF   |        |
| 09665   |        | XA250     | 36  |    | XA250  | 14        |     |    |      | 16B         | 9    |       | TC013A | 04     | TCD3A0   | 01   | 4      | TS8              | C1   |                     | 17A                |                    |        |
| 05502   |        | XA250     | 37  |    | XA249  | 41        |     |    |      | 16B         | 9    |       | SPI022 | 15     | TCD3A0   | 01   | 5      | TS8              | C1   |                     | 18B                |                    |        |
| 16447   |        | XA250     | 38  |    | XA244  | 69        |     |    |      | 16B         | 9    |       | TS28BP | 02     | TCD3A0   | 01   | 6      | TS8              | C1   |                     | 18A                |                    |        |
| 01072   |        | XA250     | 39  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 09669   |        | XA250     | 40  |    | XA246  | 75        |     |    |      | 16B         | 9    |       | TC014A | 03     | TCD3A0   | 01   | 7      | TS8              | C1   |                     | 19A                |                    |        |
| 01073   |        | XA250     | 41  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 09659   |        | XA250     | 42  |    | XA246  | 57        |     |    |      | 16B         | 9    |       | TC012A | 02     | TCD3A0   | 01   | 8      | TS8              | C1   |                     | 20A                |                    |        |
| 15975   |        | XA250     | 43  |    | XA116  | 19        |     |    |      | 16B         | 9    |       | TS08BP | 03     | TS8210   | 01   | 1      | TS8              | D1   |                     | 23B                |                    |        |
| 02294   |        | XA250     | 44  |    |        |           |     |    |      |             |      |       | GND    | 01     |          |      |        |                  |      |                     | 40A                |                    |        |
| 01074   |        | XA250     | 45  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 16185   |        | XA250     | 46  |    |        |           |     |    |      |             |      |       | TS16BP | 06     | TS8210   | 01   | 2      | TS8              | D1   |                     | 21A                |                    |        |
| 16534   |        | XA250     | 47  |    | XA150  | 11        |     |    |      | 16B         | 9    |       | TS8210 | 01     | TS8210   | 00   | 1      | TS8              | D1   |                     | 25B                | S08 +S10 +S12 +S   |        |
| 16234   |        | XA250     | 48  |    | XA351  | 49        |     |    |      | 16B         | 9    |       | TS18BP | 02     | TS8210   | 01   | 3      | TS8              | D1   |                     | 22A                |                    |        |
| 16069   |        | XA250     | 49  |    | XA250  | 68        |     |    |      | 16B         | 9    |       | TS12BP | 01     | TS8210   | 01   | 4      | TS8              | D1   |                     | 26B                |                    |        |
| 16134   |        | XA250     | 50  |    |        |           |     |    |      |             |      |       | TS14BP | 05     | TS8210   | 01   | 5      | TS8              | D1   |                     | 23A                |                    |        |
| 01075   |        | XA250     | 51  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 15870   |        | XA250     | 52  |    | XA246  | 03        |     |    |      | 16B         | 9    |       | TS04BP | 05     | TS8210   | 01   | 6      | TS8              | D1   |                     | 24A                |                    |        |
| 01076   |        | XA250     | 53  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 16308   |        | XA250     | 54  |    | XA251  | 21        |     |    |      | 16B         | 9    |       | TS21BP | 05     | TS8210   | 01   | 7      | TS8              | D1   |                     | 25A                |                    |        |
| 16019   |        | XA250     | 55  |    | XA347  | 09        |     |    |      | 16B         | 9    |       | TS10BP | 02     | TS4620   | 01   | 1      | TS8              | E1   |                     | 29B                |                    |        |
| 16018   |        | XA250     | 56  |    | XA250  | 55        |     |    |      | 16B         | 9    |       | TS10BP | 01     | TS8210   | 01   | 8      | TS8              | D1   |                     | 26A                |                    |        |
| 01077   |        | XA250     | 57  |    |        |           |     |    |      |             |      |       | DNW    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 02295   |        | XA250     | 58  |    |        |           |     |    |      |             |      |       | GND    | 01     |          |      |        |                  |      |                     |                    |                    |        |
| 16510   |        | XA250     | 59  |    | XA349  | 64        |     |    |      | 16B         | 9    |       | TS4620 | 01     | TS4620   | 00   | 1      | TS8              | E1   |                     | 31B                | S4+S6+S10+S12+S    |        |
| 15916   |        | XA250     | 60  |    |        |           |     |    |      |             |      |       | TS06BP | 06     | TS4620   | 01   | 2      | TS8              | E1   |                     | 28A                |                    |        |
| 05507   |        | XA250     | 61  |    | XA249  | 62        |     |    |      | 16B         | 9    |       | SPI022 | 20     | TS4620   | 01   | 3      | TS8              | E1   |                     | 32B                |                    |        |
| CONNECTOR XA250 ) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |    |      |             |      |       |        |        |          |      |        |                  |      |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA250  
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| RECORD NUMBER | FROM   |           |                                 |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL | SEQ NO   | EQUATION | TERM    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO            |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|----|-------------|------|-------|-------|--------|----------|----------|---------|--------|------------------|-------|---------------------|--------------------|--------------------|-------------------|
|               | PREFIX | CONNECTOR | PIN                             | TE | PREFIX | CONNECTOR | PIN | TE | MULTI GROUP | CODE | COLOR | IDENT |        |          |          |         |        |                  |       |                     |                    |                    |                   |
| 05459         |        | XA250     | 62                              |    |        |           |     |    |             |      |       |       |        | SPI021   | 04       | TS4620  | 01     | 4                | TS8   | E1                  |                    | 29A                |                   |
| 01078         |        | XA250     | 63                              |    | XA249  | 61        |     |    | 16B         | 9    |       |       |        | DNW      | 01       |         |        |                  | TS8   |                     |                    |                    |                   |
| 05433         |        | XA250     | 64                              |    | XA325  | 04        |     |    | 16B         | 9    |       |       |        | SPI020   | 06       | TS4620  | 01     | 5                | TS8   | E1                  |                    | 30A                |                   |
| 01079         |        | XA250     | 65                              |    |        |           |     |    |             |      |       |       |        | DNW      | 01       |         |        |                  | TS8   |                     |                    |                    |                   |
| 16133         |        | XA250     | 66                              |    | XA250  | 50        |     |    | 16B         | 9    |       |       |        | TS14BP   | 04       | TS4620  | 01     | 6                | TS8   | E1                  |                    | 31A                |                   |
| 02296         |        | XA250     | 67                              |    |        |           |     |    |             |      |       |       |        | GND      | 01       |         |        |                  | TS8   |                     |                    |                    |                   |
| 16070         |        | XA250     | 68                              |    | XA347  | 21        |     |    | 16B         | 9    |       |       |        | TS12BP   | 02       | TS4620  | 01     | 7                | TS8   | E1                  |                    | 32A                |                   |
| 01080         |        | XA250     | 69                              |    |        |           |     |    |             |      |       |       |        | DNW      | 01       |         |        |                  | TS8   |                     |                    |                    |                   |
| 15869         |        | XA250     | 70                              |    | XA250  | 52        |     |    | 16B         | 9    |       |       |        | TS04BP   | 04       | TS4620  | 01     | 8                | TS8   | E1                  |                    | 33A                |                   |
| 15868         |        | XA250     | 71                              |    | XA305  | 35        |     |    | 16B         | 9    |       |       |        | TI232A   | 01       | TERSAO  | 01     | 1                | TS8   | F1                  |                    | 36A                | C05               |
| 15974         |        | XA250     | 72                              |    | XA330  | 07        |     |    | 16B         | 9    |       |       |        | TS20BP   | 01       | TERSAO  | 01     | 2                | TS8   | F1                  |                    | 34A                | C05               |
| 16184         |        | XA250     | 73                              |    |        |           |     |    |             |      |       |       |        | TER4AA   | 02       | TERSAO  | 01     | 3                | TS8   | F1                  |                    | 36B                | C05               |
| 05456         |        | XA250     | 74                              |    |        |           |     |    |             |      |       |       |        | TS073A   | 03       | TERSAO  | 01     | 4                | TS8   | F1                  |                    | 35B                | C05               |
| 05514         |        | XA250     | 75                              |    |        |           |     |    |             |      |       |       |        | TS163A   | 03       | TERSAO  | 01     | 5                | TS8   | F1                  |                    | 37B                | C05               |
| 16506         |        | XA250     | 76                              |    | XA342  | 35        |     |    | 16B         | 9    |       |       |        | TERSA0   | 00       | TERSAO  | 01     | 1                | TS8   | F1                  |                    | 37A                | S4+S8+S10+S12+S14 |
| 16020         |        | XA250     | 77                              |    |        |           |     |    |             |      |       |       |        | TER5AA   | 02       | TERSAO  | 01     | 6                | TS8   | F1                  |                    | 38B                | C05               |
| 16071         |        | XA250     | 78                              |    | XA351  | 37        |     |    | 16B         | 9    |       |       |        | SPI028   | 03       | TERSAO  | 01     | 7                | TS8   | F1                  |                    | 38A                | C05               |
| 16235         |        | XA250     | 79                              |    | XA351  | 35        |     |    | 16B         | 9    |       |       |        | SP1030   | 08       | TERSAO  | 01     | 8                | TS8   | F1                  |                    | 39B                | C05               |
| 01081         |        | XA250     | 80                              |    |        |           |     |    |             |      |       |       |        | DNW      | 01       |         |        |                  | TS8   |                     |                    |                    |                   |
| 05498         |        | XA251     | 01                              |    | XA250  | 22        |     |    | 16B         | 9    |       |       |        | SPI022   | 11       | TMT0BN  | 01     | 1                | TDD   | BN                  |                    | 02B                |                   |
| 02297         |        | XA251     | 02                              |    |        |           |     |    |             |      |       |       |        | GND      | 01       |         |        |                  | TDD   |                     |                    | 01B                |                   |
| 14384         |        | XA251     | 03                              |    |        |           |     |    |             |      |       |       |        | TMT0AA   | 02       | TMT0BQ  | 01     | 1                | TDD   | BQ                  |                    | 02A                |                   |
| 15718         |        | XA251     | 04                              |    | XA350  | 05        |     |    | 16B         | 9    |       |       |        | TS00AA   | 01       | TMT0BP  | 01     | 1                | TDD   | BP                  |                    | 04A                |                   |
| 05477         |        | XA251     | 05                              |    | XA121  | 09        |     |    | 16B         | 9    |       |       |        | SPI021   | 22       | TMT0B1  | 01     | 1                | TDD   | BI                  |                    | 03B                |                   |
| 14173         |        | XA251     | 06                              |    | XA115  | 45        |     |    | 16B         | 9    |       |       |        | TMRMTA   | 01       | TMTIMP  | 01     | 1                | TDD   | AP                  |                    | 05A                |                   |
| 14394         |        | XA251     | 07                              |    | XA350  | 79        |     |    | 16B         | 9    |       |       |        | TMT0BQ   | 03       | TMT0BQ  | 00     | 1                | TDD   | BQ                  |                    | 03A                | SET MEM T.O.      |
| 14378         |        | XA251     | 08                              |    |        |           |     |    |             |      |       |       |        | TMTI1A   | 02       | TMTIMI  | 01     | 1                | TDD   | AI                  |                    | 06A                |                   |
| 14385         |        | XA251     | 09                              |    | XA248  | 05        |     |    | 16B         | 9    |       |       |        | TMT0BP   | 01       | TMT0BP  | 00     | 1                | TDD   | BP                  |                    | 04B                | RESET MEM TIME 0  |
| 20214         |        | XA251     | 10                              |    | XA113  | 72        |     |    | 16B         | 9    |       |       |        | YSN2CTX  | 01       | TMTIMN  | 01     | 1                | TDD   | AN                  |                    | 07A                |                   |
| 20513         |        | XA251     | 11                              |    |        |           |     |    |             |      |       |       |        | M TMTIMP | 01       | TMTIMP  | 00     | 1                | TDD   | AP                  |                    | 05B                |                   |
| 00468         |        | XA251     | 12                              |    |        |           |     |    |             |      |       |       |        | +5V      | 01       |         |        |                  | TDD   |                     |                    |                    |                   |
| 14372         |        | XA251     | 13                              |    | XA151  | 06        |     |    | 16B         | 9    |       |       |        | TMTIMQ   | 02       | TMTIMQ  | 00     | 1                | TDD   | AQ                  |                    | 06B                | PRESET-COUNT 3.0  |
| 13815         |        | XA251     | 14                              |    | XA244  | 10        |     |    | 16B         | 9    |       |       |        | TKBACB   | 13       | TS21BN  | 01     | 1                | TDD   | DN                  |                    | 09A                |                   |
| 14370         |        | XA251     | 15                              |    |        |           |     |    |             |      |       |       |        | TMTENA   | 02       | TMTIMQ  | 01     | 1                | TDD   | AQ                  |                    | 07B                |                   |
| 02298         |        | XA251     | 16                              |    |        |           |     |    |             |      |       |       |        | GND      | 01       |         |        |                  | TDD   |                     |                    | 20B                |                   |
| 05430         |        | XA251     | 17                              |    | XA250  | 24        |     |    | 16B         | 9    |       |       |        | SPI020   | 03       | TS21BQ  | 01     | 1                | TDD   | DQ                  |                    | 08B                |                   |
| 16327         |        | XA251     | 18                              |    | XA351  | 50        |     |    | 16B         | 9    |       |       |        | TS2100   | 02       | TS21BI  | 01     | 1                | TDD   | DI                  |                    | 10A                |                   |
| 16315         |        | XA251     | 19                              |    | XA348  | 74        |     |    | 16B         | 9    |       |       |        | TS21BQ   | 04       | TS21BQ  | 00     | 1                | TDD   | DQ                  |                    | 09B                | PRESET S21        |
| 14231         |        | XA251     | 20                              |    | XA251  | 26        |     |    | 16B         | 9    |       |       |        | TMRUBA4  | 09       | TS21BP  | 01     | 1                | TDD   | DP                  |                    | 11A                |                   |
| 16309         |        | XA251     | 21                              |    | XA113  | 10        |     |    | 16B         | 9    |       |       |        | TS21BP   | 06       | TS21BP  | 00     | 1                | TDD   | DP                  |                    | 10B                | MASTER RESET S21  |
| 14127         |        | XA251     | 22                              |    |        |           |     |    |             |      |       |       |        | TMHRSA   | 02       | TMHLCP  | 01     | 1                | TDD   | CP                  |                    | 12A                |                   |
| 20503         |        | XA251     | 23                              |    |        |           |     |    |             |      |       |       |        | M TMHLCP | 01       | TMHLCP  | 00     | 1                | TDD   | CP                  |                    | 11B                |                   |
| 05476         |        | XA251     | 24                              |    | XA234  | 78        |     |    | 16B         | 9    |       |       |        | KGNDDA   | 005      | TMHLCI  | 01     | 1                | TDD   | CI                  |                    | 13A                |                   |
| 14125         |        | XA251     | 25                              |    |        |           |     |    |             |      |       |       |        | TMHLCC   | 02       | TMHLCC  | 00     | 1                | TDD   | CQ                  |                    | 12B                | MEM HOLD FF - SE  |
| 05500         |        | XA251     | 26                              |    | XA251  | 38        |     |    | 16B         | 9    |       |       |        | TMRUBA4  | 095      | TMHLCCN | 01     | 1                | TDD   | CN                  |                    | 14A                |                   |
| 14129         |        | XA251     | 27                              |    |        |           |     |    |             |      |       |       |        | TMHSTA   | 02       | TMHLCC  | 01     | 1                | TDD   | CQ                  |                    | 13B                |                   |
| 00469         |        | XA251     | 28                              |    |        |           |     |    |             |      |       |       |        | +5V      | 01       |         |        |                  | TDD   |                     |                    |                    |                   |
| 05501         |        | XA251     | 29                              |    | XA250  | 37        |     |    | 16B         | 9    |       |       |        | SPI022   | 14       | TS23BQ  | 01     | 1                | TDD   | FQ                  |                    | 14B                |                   |
| CONNECTOR     |        | XA251     | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |    |             |      |       |       |        |          |          |         |        |                  |       |                     |                    |                    |                   |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA251  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 173

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | IPC INST | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION  | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|----------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|---------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |          |         |        |          |      |        |                  |       |                     |                    |                     |        |
| 13814   |        | XA251     | 30  |        |           |     |             |      |       |       |          | TKBACB  | 12     | TS238N   | 01   | 1      | TDD              | FN    |                     | 15A                |                     |        |
| 16376   |        | XA251     | 31  |        | XA251     | 14  |             | 16B  | 9     |       |          | TS238Q  | 04     | TS238Q   | 00   | 1      | TDD              | FQ    |                     | 15B                | PRESET INPUT        |        |
| 02299   |        | XA251     | 32  |        |           |     |             |      |       |       |          | GND     | 01     |          |      |        | TDD              |       |                     | 21B                |                     |        |
| 16371   |        | XA251     | 33  |        | XA245     | 47  |             | 16B  | 9     |       |          | TS238P  | 04     | TS238P   | 00   | 1      | TDD              | FP    |                     | 16B                | MASTER RESET S23    |        |
| 16381   |        | XA251     | 34  |        |           |     |             |      |       |       |          | TS2300  | 02     | TS238I   | 01   | 1      | TDD              | FI    |                     | 16A                |                     |        |
| 16348   |        | XA251     | 35  |        |           |     |             |      |       |       |          | TS22BP  | 06     | TS22BP   | 00   | 1      | TDD              | EP    |                     | 17B                | MASTER RESET S22    |        |
| 16388   |        | XA251     | 36  |        |           |     |             |      |       |       |          | TS233A  | 02     | TS23BP   | 01   | 1      | TDD              | FP    |                     | 17A                |                     |        |
| 16352   |        | XA251     | 37  |        | XA247     | 72  |             | 16B  | 9     |       |          | TS22BQ  | 04     | TS22BQ   | 00   | 1      | TDD              | EQ    |                     | 18B                | PRESET INPUT S22    |        |
| 14232   |        | XA251     | 38  |        | XA251     | 50  |             | 16B  | 9     |       |          | TMRUBA4 | 10     | TS22BP   | 01   | 1      | TDD              | EP    |                     | 18A                |                     |        |
| 05473   |        | XA251     | 39  |        | XA250     | 31  |             | 16B  | 9     |       |          | SPI021  | 18     | TS22BQ   | 01   | 1      | TDD              | EQ    |                     | 19B                |                     |        |
| 16362   |        | XA251     | 40  |        |           |     |             |      |       |       |          | TS2200  | 02     | TS22BI   | 01   | 1      | TDD              | EI    |                     | 19A                |                     |        |
| 05472   |        | XA251     | 41  |        | XA251     | 39  |             | 16B  | 9     |       |          | SPI021  | 17     | TS25BQ   | 01   | 1      | TDD              | HQ    |                     | 22B                |                     |        |
| 13813   |        | XA251     | 42  |        | XA251     | 30  |             | 16B  | 9     |       |          | TKBACB  | 11     | TS22BN   | 01   | 1      | TDD              | EN    |                     | 20A                |                     |        |
| 16406   |        | XA251     | 43  |        | XA236     | 72  |             | 16B  | 9     |       |          | TS25BQ  | 02     | TS25BQ   | 00   | 1      | TDD              | HQ    |                     | 23B                | PRESET INPUT S25    |        |
| 02300   |        | XA251     | 44  |        |           |     |             |      |       |       |          | GND     | 01     |          |      |        | TDD              |       |                     | 27A                |                     |        |
| 20525   |        | XA251     | 45  |        | XA206     | 77  |             | 16B  | 9     |       |          | TS25BP  | 01     | TS25BP   | 00   | 1      | TDD              | HP    |                     | 24B                | MASTER RESET S25C06 |        |
| 13812   |        | XA251     | 46  |        | XA251     | 42  |             | 16B  | 9     |       |          | TKBACB  | 10     | TS25BN   | 01   | 1      | TDD              | HN    |                     | 21A                |                     |        |
| 16394   |        | XA251     | 47  |        | XA236     | 70  |             | 16B  | 9     |       |          | TS248P  | 04     | TS248P   | 00   | 1      | TDD              | GP    |                     | 25B                | MASTER RESET S24    |        |
| 16412   |        | XA251     | 48  |        | XA349     | 23  |             | 16B  | 9     |       |          | TS2500  | 01     | TS25BI   | 01   | 1      | TDD              | HI    |                     | 22A                |                     |        |
| 16400   |        | XA251     | 49  |        | XA350     | 37  |             | 16B  | 9     |       |          | TS248Q  | 04     | TS248Q   | 00   | 1      | TDD              | GQ    |                     | 26B                | PRESET S24          |        |
| 14233   |        | XA251     | 50  |        | XA251     | 52  |             | 16B  | 9     |       |          | TMRUBA4 | 11     | TS25BP   | 01   | 1      | TDD              | HP    |                     | 23A                |                     |        |
| 13602   |        | XA251     | 51  |        | XA305     | 21  |             | 16B  | 9     |       |          | TI22XA  | 01     | TS248Q   | 01   | 1      | TDD              | GQ    |                     | 27B                |                     |        |
| 14234   |        | XA251     | 52  |        | XA251     | 64  |             | 16B  | 9     |       |          | TMRUBA4 | 12     | TS24BP   | 01   | 1      | TDD              | GP    |                     | 24A                |                     |        |
| 05506   |        | XA251     | 53  |        | XA250     | 61  |             | 16B  | 9     |       |          | SP1022  | 19     | TS27BQ   | 01   | 1      | TDD              | KQ    |                     | 28B                |                     |        |
| 14744   |        | XA251     | 54  |        | XA148     | 68  |             | 16B  | 9     |       |          | TPGNDA  | 03     | TS24BI   | 01   | 1      | TDD              | GI    |                     | 25A                |                     |        |
| 16438   |        | XA251     | 55  |        | XA246     | 78  |             | 16B  | 9     |       |          | TS27BQ  | 02     | TS27BQ   | 00   | 1      | TDD              | KQ    |                     | 29B                | PRESET S27          |        |
| 13811   |        | XA251     | 56  |        | XA251     | 46  |             | 16B  | 9     |       |          | TKBACB  | 09     | TS24BN   | 01   | 1      | TDD              | GN    |                     | 26A                |                     |        |
| 20526   |        | XA251     | 57  |        |           |     |             |      |       |       |          | TS27BP  | 01     | TS27BP   | 00   | 1      | TDD              | KP    |                     | 30B                |                     |        |
| 02301   |        | XA251     | 58  |        |           |     |             |      |       |       |          | GND     | 01     |          |      |        | TDD              |       |                     | 40A                |                     |        |
| 16416   |        | XA251     | 59  |        | XA343     | 33  |             | 16B  | 9     |       |          | TS268P  | 01     | TS268P   | 00   | 1      | TDD              | JP    |                     | 31B                | MASTER RESET S26    |        |
| 13810   |        | XA251     | 60  |        | XA251     | 56  |             | 16B  | 9     |       |          | TKBACB  | 08     | TS27BN   | 01   | 1      | TDD              | KN    |                     | 28A                |                     |        |
| 16419   |        | XA251     | 61  |        | XA350     | 71  |             | 16B  | 9     |       |          | TS26BQ  | 02     | TS26BQ   | 00   | 1      | TDD              | JQ    |                     | 32B                | PRESET INPUT S26    |        |
| 16442   |        | XA251     | 62  |        | XA245     | 70  |             | 16B  | 9     |       |          | TS2700  | 01     | TS27BI   | 01   | 1      | TDD              | KI    |                     | 29A                |                     |        |
| 05458   |        | XA251     | 63  |        | XA250     | 62  |             | 16B  | 9     |       |          | SPI021  | 03     | TS26BQ   | 01   | 1      | TDD              | JQ    |                     | 33B                |                     |        |
| 14235   |        | XA251     | 64  |        | XA251     | 66  |             | 16B  | 9     |       |          | TMRUBA4 | 13     | TS27BP   | 01   | 1      | TDD              | KP    |                     | 30A                |                     |        |
| 05432   |        | XA251     | 65  |        | XA250     | 64  |             | 16B  | 9     |       |          | SPI021  | 05     | TS29BQ   | 01   | 1      | TDD              | MQ    |                     | 34B                |                     |        |
| 14236   |        | XA251     | 66  |        | XA251     | 73  |             | 16B  | 9     |       |          | TMRUBA4 | 14     | TS26BP   | 01   | 1      | TDD              | JP    |                     | 31A                |                     |        |
| 02302   |        | XA251     | 67  |        |           |     |             |      |       |       |          | GND     | 01     |          |      |        | TDD              |       |                     | 40B                |                     |        |
| 16423   |        | XA251     | 68  |        | XA350     | 14  |             | 16B  | 9     |       |          | TS2600  | 01     | TS26BI   | 01   | 1      | TDD              | JI    |                     | 32A                |                     |        |
| 1647C   |        | XA251     | 69  |        | XA344     | 24  |             | 16B  | 9     |       |          | TS29BP  | 02     | TS29BP   | 00   | 1      | TDD              | MP    |                     | 35A                | MASTER RESET S29    |        |
| 13809   |        | XA251     | 70  |        | XA251     | 60  |             | 16B  | 9     |       |          | TKBACB  | 07     | TS26BN   | 01   | 1      | TDD              | JN    |                     | 33A                |                     |        |
| 16457   |        | XA251     | 71  |        | XA249     | 31  |             | 16B  | 9     |       |          | TS28BQ  | 05     | TS29BI   | 01   | 1      | TDD              | MI    |                     | 36A                |                     |        |
| 13808   |        | XA251     | 72  |        | XA251     | 70  |             | 16B  | 9     |       |          | TKBACB  | 06     | TS29BN   | 01   | 1      | TDD              | MN    |                     | 34A                |                     |        |
| 14237   |        | XA251     | 73  |        | XA244     | 73  |             | 16B  | 9     |       |          | TMRUBA4 | 15     | TS29BP   | 01   | 1      | TDD              | MP    |                     | 36B                |                     |        |
| 16473   |        | XA251     | 74  |        | XA350     | 78  |             | 16B  | 9     |       |          | TS29BQ  | 02     | TS29BQ   | 00   | 1      | TDD              | MQ    |                     | 35B                | PRESET INPUT S29    |        |
| 05457   |        | XA251     | 75  |        | XA251     | 63  |             | 16B  | 9     |       |          | SPI021  | 02     | TE11BP   | 01   | 1      | TDD              | LP    |                     | 37B                |                     |        |
| 20484   |        | XA251     | 76  |        |           |     |             |      |       |       |          | TE11BP  | 01     | TE11BP   | 00   | 1      | TDD              | LP    |                     | 37A                |                     |        |
| 12737   |        | XA251     | 77  |        | XA248     | 69  |             | 16B  | 9     |       |          | TE1110  | 01     | TE11BI   | 01   | 1      | TDD              | LI    |                     | 38B                |                     |        |
| 12736   |        | XA251     | 78  |        |           |     |             |      |       |       |          | TE11BQ  | 03     | TE11BQ   | 00   | 1      | TDD              | LQ    |                     | 38A                | BIT 11 I/O REG S    |        |
| 12457   |        | XA251     | 79  |        |           |     |             |      |       |       |          | TECKCA  | 08     | TE11BN   | 01   | 1      | TDD              | LN    |                     | 39B                |                     |        |
| CONNECTOR XA251 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |          |         |        |          |      |        |                  |       |                     |                    |                     |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA251  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 174

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACTOR | C/T OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|---------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |         |          |        |        |                  |       |                     |                    |                    |        |
| 05517   |        | XA251     | 80  |        |           |     |      |             |      |       |        | SPI022  | 30       | TE11BQ | 01     | 1                | TDD   | LQ                  | 39A                |                    |        |
| 03536   |        | XA301     | 01  |        | XA125     | 11  |      | BS          | 1EB  | 9     |        | JDB00B4 | 06       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 02303   |        | XA301     | 02  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 21395   |        | XA301     | 02  |        | XA125     | 16  |      | BS          | 1EB  | 0     |        | JDB00G  | 01       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03542   |        | XA301     | 03  |        | XA125     | 06  |      | BT          | 1EB  | 9     |        | JDB01B4 | 06       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 02304   |        | XA301     | 04  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 21397   |        | XA301     | 04  |        | XA125     | 02  |      | BT          | 1EB  | 0     |        | JDB01G  | 01       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03548   |        | XA301     | 05  |        | XA125     | 04  |      | BU          | 1EB  | 9     |        | JDB02B4 | 06       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 02305   |        | XA301     | 06  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 21399   |        | XA301     | 06  |        | XA125     | 02  |      | BU          | 1EB  | 0     |        | JDB02G  | 01       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03549   |        | XA301     | 07  |        | XA427     | 39  |      |             | 16B  | 9     |        | JDB03B4 | 07       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03203   |        | XA301     | 08  | 1      | XA301     | 10  |      |             | 16B  | 9     |        | GND009  | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 21170   |        | XA301     | 08  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 21402   |        | XA301     | 08  |        |           |     |      |             |      |       |        | JDB03G  | 02       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 21404   |        | XA301     | 08  |        |           |     |      |             |      |       |        | JDB04G  | 02       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03555   |        | XA301     | 09  |        | XA348     | 46  |      |             | 16B  | 9     |        | JDB04B4 | 07       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03204   |        | XA301     | 10  |        |           |     |      |             |      |       |        | GND009  | 02       |        |        |                  | EXT   |                     |                    |                    |        |
| 03561   |        | XA301     | 11  |        | XA125     | 15  |      | BX          | 1EB  | 9     |        | JDB05B4 | 01       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 02306   |        | XA301     | 12  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 21406   |        | XA301     | 12  |        | XA125     | 16  |      | BX          | 1EB  | 0     |        | JDB05G  | 01       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03572   |        | XA301     | 13  |        |           |     |      |             |      |       |        | JDB06B4 | 06       |        |        |                  | EXT   |                     |                    |                    |        |
| 02307   |        | XA301     | 14  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 21408   |        | XA301     | 14  |        |           |     |      |             |      |       |        | JDB06G  | 02       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03573   |        | XA301     | 15  |        | XA413     | 33  |      |             | 16B  | 9     |        | JDB07B4 | 07       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 02308   |        | XA301     | 16  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 21410   |        | XA301     | 16  |        |           |     |      |             |      |       |        | JDB07G  | 02       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03581   |        | XA301     | 17  |        | XA413     | 39  |      |             | 16B  | 9     |        | JDB08B4 | 03       |        |        |                  | EXT   |                     |                    |                    |        |
| 02309   |        | XA301     | 18  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 21412   |        | XA301     | 18  |        |           |     |      |             |      |       |        | JDB08G  | 02       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03587   |        | XA301     | 19  |        | XA413     | 52  |      |             | 16B  | 9     |        | JDB09B4 | 03       |        |        |                  | EXT   |                     |                    |                    |        |
| 02310   |        | XA301     | 20  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 21414   |        | XA301     | 20  |        |           |     |      |             |      |       |        | JDB09G  | 02       |        |        |                  | EXT   |                     |                    |                    | C07    |
| 03592   |        | XA301     | 21  |        | XA413     | 06  |      |             | 16B  | 9     |        | JDB10B4 | 02       |        |        |                  | EXT   |                     |                    |                    |        |
| 02311   |        | XA301     | 22  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 03598   |        | XA301     | 23  |        | XA413     | 01  |      |             | 16B  | 9     |        | JDB11B4 | 02       |        |        |                  | EXT   |                     |                    |                    |        |
| 02312   |        | XA301     | 24  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 03604   |        | XA301     | 25  |        | XA413     | 09  |      |             | 16B  | 9     |        | JDB12B4 | 02       |        |        |                  | EXT   |                     |                    |                    |        |
| 02313   |        | XA301     | 26  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 03612   |        | XA301     | 27  |        | XA413     | 15  |      |             | 16B  | 9     |        | JDB13B4 | 04       |        |        |                  | EXT   |                     |                    |                    |        |
| 02314   |        | XA301     | 28  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 03618   |        | XA301     | 29  |        | XA413     | 22  |      |             | 16B  | 9     |        | JDB14B4 | 04       |        |        |                  | EXT   |                     |                    |                    |        |
| 02315   |        | XA301     | 30  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 03624   |        | XA301     | 31  |        | XA413     | 14  |      |             | 16B  | 9     |        | JDB15B4 | 04       |        |        |                  | EXT   |                     |                    |                    |        |
| 02316   |        | XA301     | 32  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 03630   |        | XA301     | 33  |        | XA413     | 21  |      |             | 16B  | 9     |        | JDB16B4 | 04       |        |        |                  | EXT   |                     |                    |                    |        |
| 02317   |        | XA301     | 34  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| 03636   |        | XA301     | 35  |        | XA413     | 27  |      |             | 16B  | 9     |        | JDB17B4 | 04       |        |        |                  | EXT   |                     |                    |                    |        |
| 02318   |        | XA301     | 36  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | EXT   |                     |                    |                    |        |
| CONNECTOR (XA301) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |         |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA301  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 175

| RECORD NUMBER                                      | FROM   |           |     | TO     |           |     | WIRE  |            |      |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |  |  |     |
|--|--------|-----------|-----|--------|-----------|-----|-------|------------|------|-------|-------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|--|--|-----|
|  | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH FE | MULT GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03642  |        | XA301     | 37  |        | XA413     | 38  |       |            | 16B  | 9     |       | JDB18B4  | 04     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02319  |        | XA301     | 38  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03648  |        | XA301     | 39  |        | XA413     | 30  |       |            | 16B  | 9     |       | JDB19B4  | 04     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02320  |        | XA301     | 40  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03654  |        | XA301     | 41  |        | XA413     | 46  |       |            | 16B  | 9     |       | JDB20B4  | 04     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02321  |        | XA301     | 42  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03660  |        | XA301     | 43  |        | XA413     | 45  |       |            | 16B  | 9     |       | JDB21B4  | 04     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02322  |        | XA301     | 44  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03666  |        | XA301     | 45  |        | XA413     | 51  |       |            | 16B  | 9     |       | JDB22B4  | 04     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02323  |        | XA301     | 46  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03670  |        | XA301     | 47  |        | XA204     | 53  |       |            | 16B  | 9     |       | JDB23B4  | 02     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02324  |        | XA301     | 48  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03676  |        | XA301     | 49  |        | XA204     | 55  |       |            | 16B  | 9     |       | JDB24B4  | 02     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02325  |        | XA301     | 50  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03682  |        | XA301     | 51  |        | XA204     | 56  |       |            | 16B  | 9     |       | JDB25B4  | 02     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02326  |        | XA301     | 52  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03691  |        | XA301     | 53  |        | XA413     | 63  |       |            | 16B  | 9     |       | JDB26B4  | 05     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02327  |        | XA301     | 54  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03697  |        | XA301     | 55  |        | XA413     | 75  |       |            | 16B  | 9     |       | JDB27B4  | 05     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02328  |        | XA301     | 56  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03700  |        | XA301     | 57  |        | XA204     | 63  |       |            | 16B  | 9     |       | JDB28B4  | 02     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02329  |        | XA301     | 58  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03707  |        | XA301     | 59  |        | XA204     | 65  |       |            | 16B  | 9     |       | JDB29B4  | 03     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02330  |        | XA301     | 60  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03713  |        | XA301     | 61  |        | XA204     | 66  |       |            | 16B  | 9     |       | JDB30B4  | 03     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02331  |        | XA301     | 62  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03716  |        | XA301     | 63  |        | XA204     | 71  |       |            | 16B  | 9     |       | JDB31B4  | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02332  |        | XA301     | 64  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 06660  |        | XA301     | 65  |        | XA420     | 65  |       |            | 16B  | 9     |       | YMR5DB   | 02     |          |      |        |                  |       |                     |                    |                    |        |  |  | 003 |
| 02333  |        | XA301     | 66  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 04600  |        | XA301     | 67  |        | XA303     | 67  |       |            | 16B  | 9     |       | LOGC1B   | 02     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02334  |        | XA301     | 68  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 04601  |        | XA301     | 69  |        | XA107     | 41  |       |            | 16B  | 9     |       | LOGC2B   | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02335  |        | XA301     | 70  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 04604  |        | XA301     | 71  |        | XA201     | 71  |       |            | 16B  | 9     |       | LOGI0B   | 02     |          |      |        |                  |       |                     |                    |                    |        |  |  | 805 |
| 03205  |        | XA301     | 72  |        | XA301     | 74  |       |            | 16B  | 9     |       | GND010   | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 21171  |        | XA301     | 72  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 00191  |        | XA301     | 73  |        | XA107     | 24  |       |            | 16B  | 9     |       | +05VCI   | 02     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03206  |        | XA301     | 74  |        | XA301     | 76  |       |            | 16B  | 9     |       | GND010   | 02     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 00190  |        | XA301     | 75  |        | XA301     | 73  |       |            | 16B  | 9     |       | +05VCI   | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 03207  |        | XA301     | 76  |        |           |     |       |            |      |       |       | GND010   | 03     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 00218  |        | XA301     | 77  |        | XA204     | 79  |       |            | 16B  | 9     |       | +05VIC   | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02336  |        | XA301     | 78  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 00219  |        | XA301     | 79  |        |           |     |       |            |      |       |       | +05VIC   | 15     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02337  |        | XA301     | 80  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 06661  |        | XA302     | 01  |        |           |     |       |            |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 02338  |        | XA302     | 02  |        |           |     |       |            |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| 11282  |        | XA302     | 03  |        | XA417     | 46  |       |            | AV   | 1E8   | 9     | TDOPADX4 | 005    |          |      |        |                  |       |                     |                    |                    |        |  |  |     |
| CONNECTOR (XA302 ) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |            |      |       |       |          |        |          |      |        |                  |       |                     |                    |                    |        |  |  |     |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA302  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 177

| RECORD NUMBER                                   | FROM   |           |     | TO    |        |           | WIRE |      |             |      | SFC INST. NO. | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|------|------|-------------|------|---------------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN   | PREFIX | CONNECTOR | PIN  | DRFC | MULTI GROUP | CODE |               |          |        |          |      |        |                  |       |                     |                    |                    |        |
| 11278   | XA302  | 04        |     | XA417 | 45     |           |      | AV   | 1EB         | 0    |               | TD0PADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21172   | XA302  | 04        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 11289   | XA302  | 05        |     | XA417 | 07     |           |      | AW   | 1EB         | 9    |               | TD00ADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 11286   | XA302  | 06        |     | XA417 | 05     |           |      | AW   | 1EB         | 0    |               | TD00ADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21173   | XA302  | 06        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 11332   | XA302  | 07        |     | XA417 | 17     |           |      | AX   | 1EB         | 9    |               | TD01ADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 11328   | XA302  | 08        |     | XA417 | 19     |           |      | AX   | 1EB         | 0    |               | TD01ADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20903   | XA302  | 08        |     | XA302 | 10     |           |      |      |             | 16B  | 9             | GND011   | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21174   | XA302  | 08        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 11372   | XA302  | 09        |     | XA417 | 14     |           |      | AY   | 1EB         | 9    |               | TD02ADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 11368   | XA302  | 10        |     | XA417 | 16     |           |      | AY   | 1EB         | 0    |               | TD02ADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20904   | XA302  | 10        |     |       |        |           |      |      |             |      |               | GND011   | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06662   | XA302  | 11        |     |       |        |           |      |      |             |      |               | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02339   | XA302  | 12        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 11418   | XA302  | 13        |     | XA417 | 01     |           |      | BA   | 1EB         | 9    |               | TD03ADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 11415   | XA302  | 14        |     | XA417 | 02     |           |      | BA   | 1EB         | 0    |               | TD03ADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21175   | XA302  | 14        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06663   | XA302  | 15        |     |       |        |           |      |      |             |      |               | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02340   | XA302  | 16        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 11454   | XA302  | 17        |     | XA417 | 27     |           |      | BB   | 1EB         | 9    |               | TD04ADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 11450   | XA302  | 18        |     | XA417 | 25     |           |      | BB   | 1EB         | 0    |               | TD04ADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21176   | XA302  | 18        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 11490   | XA302  | 19        |     | XA417 | 37     |           |      | BC   | 1EB         | 9    |               | TD05ADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 11486   | XA302  | 20        |     | XA417 | 39     |           |      | BC   | 1EB         | 0    |               | TD05ADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21177   | XA302  | 20        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 11526   | XA302  | 21        |     | XA417 | 41     |           |      | BD   | 1EB         | 9    |               | TD06ADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 11522   | XA302  | 22        |     | XA417 | 42     |           |      | BD   | 1EB         | 0    |               | TD06ADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21178   | XA302  | 22        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 11562   | XA302  | 23        |     | XA417 | 23     |           |      | BE   | 1EB         | 9    |               | TD07ADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 11558   | XA302  | 24        |     | XA417 | 21     |           |      | BE   | 1EB         | 0    |               | TD07ADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21179   | XA302  | 24        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 13391   | XA302  | 25        |     |       |        |           |      |      |             |      |               | TINTADX4 | 06     |          |      |        | EXT              |       |                     |                    |                    |        |
| 13385   | XA302  | 26        |     |       |        |           |      |      |             |      |               | TINTADG4 | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21180   | XA302  | 26        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06664   | XA302  | 27        |     |       |        |           |      |      |             |      |               | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02341   | XA302  | 28        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 04340   | XA302  | 29        |     |       |        |           |      |      |             |      |               | KSWBIR   | 06     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02342   | XA302  | 30        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06665   | XA302  | 31        |     |       |        |           |      |      |             |      |               | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02343   | XA302  | 32        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 15668   | XA302  | 33        |     | XA417 | 55     |           |      | CA   | 1EB         | 9    |               | TSTBADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 15664   | XA302  | 34        |     | XA417 | 53     |           |      | CA   | 1EB         | 0    |               | TSTBADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21181   | XA302  | 34        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06666   | XA302  | 35        |     | XA430 | 75     |           |      |      |             | 16B  | 9             | XG1RCD4  | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 02344   | XA302  | 36        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 09955   | XA302  | 37        |     | XA417 | 60     |           |      | AE   | 1EB         | 9    |               | TCS1ADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 09951   | XA302  | 38        |     | XA417 | 58     |           |      | AE   | 1EB         | 0    |               | TCS1ADG4 | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21182   | XA302  | 38        |     |       |        |           |      |      |             |      |               | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 09967   | XA302  | 39        |     | XA417 | 43     |           |      | AF   | 1EB         | 9    |               | TCS2ADX4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| 09963   | XA302  | 40        |     | XA417 | 44     |           |      | AF   | 1EB         | 0    |               | TCS2ADG4 | 005    |          |      |        | EXT              |       |                     |                    |                    |        |
| CONNECTOR XA302 CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |      |      |             |      |               |          |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA302  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 177

| RECORD NUMBER | FROM   |           |     |      | TO                              |           |     |      | WIRE        |      |       |           | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|------|---------------------------------|-----------|-----|------|-------------|------|-------|-----------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | INFC | PREFIX                          | CONNECTOR | PIN | INFC | MULTI GROUP | CODE | COLOR | IDENT     |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 21183         | XA302  |           | 40  |      |                                 |           |     |      |             |      |       |           | GND    | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 09979         | XA302  |           | 41  |      | XA417                           | 65        |     | AG   | 1EB         | 9    |       | TCS3ADX4  | 005    |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 09975         | XA302  |           | 42  |      | XA417                           | 67        |     | AG   | 1EB         | 0    |       | TCS3ADG4  | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21184         | XA302  |           | 42  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 06667         | XA302  |           | 43  |      |                                 |           |     |      |             |      |       | SPP       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 02345         | XA302  |           | 44  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 09991         | XA302  |           | 45  |      |                                 |           |     |      |             |      |       | TCS4ADX4  | 03     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 09988         | XA302  |           | 46  |      |                                 |           |     |      |             |      |       | TCS4ADG4  | 02     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21185         | XA302  |           | 46  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 10003         | XA302  |           | 47  |      | XA417                           | 80        |     | AI   | 1EB         | 9    |       | TCS5ADX4  | 005    |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 09999         | XA302  |           | 48  |      | XA417                           | 79        |     | AI   | 1EB         | 0    |       | TCS5ADG4  | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21186         | XA302  |           | 48  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 10015         | XA302  |           | 49  |      | XA417                           | 61        |     | AJ   | 1EB         | 9    |       | TCS6ADX4  | 005    |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 10011         | XA302  |           | 50  |      | XA417                           | 59        |     | AJ   | 1EB         | 0    |       | TCS6ADG4  | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21187         | XA302  |           | 50  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 10024         | XA302  |           | 51  |      | XA410                           | 17        |     |      |             | 16B  | 9     | TCST7ADX4 | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 10023         | XA302  |           | 52  |      |                                 |           |     |      |             |      |       | TCS7ADG4  | 02     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21188         | XA302  |           | 52  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 15286         | XA302  |           | 53  |      | XA418                           | 01        |     | BI   | 1EB         | 9    |       | TRDYADX4  | 005    |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 15282         | XA302  |           | 54  |      | XA418                           | 02        |     | BI   | 1EB         | 0    |       | TRDYADG4  | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21189         | XA302  |           | 54  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 09927         | XA302  |           | 55  |      | XA416                           | 01        |     | AC   | 1EB         | 9    |       | TCSXADX4  | 005    |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 09923         | XA302  |           | 56  |      | XA416                           | 02        |     | AC   | 1EB         | 0    |       | TCSXADG4  | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21190         | XA302  |           | 56  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 06668         | XA302  |           | 57  |      |                                 |           |     |      |             |      |       | SPP       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 02346         | XA302  |           | 58  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 20838         | XA302  |           | 59  |      | XA416                           | 14        |     | AB   | 1EB         | 9    |       | TCSMADX4  | 005    |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 20837         | XA302  |           | 60  |      | XA416                           | 16        |     | AB   | 1EB         | 0    |       | TCSMADG4  | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21191         | XA302  |           | 60  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 06669         | XA302  |           | 61  |      | XA406                           | 47        |     |      |             | 16B  | 9     | XHIRCD4   | 005    |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 02347         | XA302  |           | 62  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 00252         | XA302  |           | 63  |      | XA302                           | 65        |     |      |             | 16B  | 9     | +5I0DC    | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 00257         | XA302  |           | 64  |      | XA302                           | 66        |     |      |             | 16B  | 9     | +5I0DG    | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21192         | XA302  |           | 64  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 00253         | XA302  |           | 65  |      | XA303                           | 65        |     |      |             | 16B  | 9     | +5I0DC    | 02     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 00258         | XA302  |           | 66  |      | XA303                           | 66        |     |      |             | 16B  | 9     | +5I0DG    | 02     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21193         | XA302  |           | 66  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 06670         | XA302  |           | 67  |      |                                 |           |     |      |             |      |       | SPP       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 02348         | XA302  |           | 68  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 06671         | XA302  |           | 69  |      |                                 |           |     |      |             |      |       | SPP       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 02349         | XA302  |           | 70  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 06672         | XA302  |           | 71  |      |                                 |           |     |      |             |      |       | SPP       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 03210         | XA302  |           | 72  |      |                                 |           |     |      |             |      |       | GND012    | 03     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 21194         | XA302  |           | 72  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 06673         | XA302  |           | 73  |      |                                 |           |     |      |             |      |       | SPP       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 03205         | XA302  |           | 74  |      | XA302                           | 72        |     |      |             | 16B  | 9     | GND012    | 02     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 06674         | XA302  |           | 75  |      | XA439                           | 76        |     |      |             | 16B  | 9     | XFIRCD4   | 005    |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 03208         | XA302  |           | 76  |      | XA302                           | 74        |     |      |             | 16B  | 9     | GND012    | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 06675         | XA302  |           | 77  |      |                                 |           |     |      |             |      |       | SPP       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| 02350         | XA302  |           | 78  |      |                                 |           |     |      |             |      |       | GND       | 01     |        |          |      |        | EXT              |       |                     |                    |                    |        |
| CONNECTOR     | XA302  |           |     |      | CONTINUED ON THE NEXT PAGE **** |           |     |      |             |      |       |           |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA302  
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| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL   | SFG NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|----------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SR   | MULTI GROUP | CODE | COLOR |          |        |          |             |                  |       |                     |                    |                    |        |
| 06676   |        | XA302     | 79  |        |           |     |      |             |      |       | SPP      | 01     |          |             |                  |       |                     |                    |                    |        |
| 02351   |        | XA302     | 80  |        |           |     |      |             |      |       | GND      | 01     |          |             |                  |       |                     |                    |                    |        |
| 06677   |        | XA303     | 01  |        |           |     |      |             |      |       | SPP      | 01     |          |             |                  |       |                     |                    |                    |        |
| 03212   |        | XA303     | 02  |        | XA303     | 04  |      |             | 16B  | 9     | GND013   | 02     |          |             |                  |       |                     |                    |                    |        |
| 10732   |        | XA303     | 03  |        |           |     |      |             |      |       | TDIPADX4 | 03     |          |             |                  |       |                     |                    |                    |        |
| 10728   |        | XA303     | 04  |        | XA418     | 05  |      | AL          | 1EB  | 0     | TDIPADG4 | 01     |          |             |                  |       |                     |                    |                    |        |
| 20906   |        | XA303     | 04  |        | XA303     | 06  |      |             | 16B  | 9     | GND013   | 03     |          |             |                  |       |                     |                    |                    |        |
| 10755   |        | XA303     | 05  |        |           |     |      |             |      |       | TDIOADX4 | 03     |          |             |                  |       |                     |                    |                    |        |
| 10752   |        | XA303     | 06  |        |           |     |      |             |      |       | TDIOADG4 | 02     |          |             |                  |       |                     |                    |                    |        |
| 20907   |        | XA303     | 06  |        | XA303     | 08  |      |             | 16B  | 9     | GND013   | 04     |          |             |                  |       |                     |                    |                    |        |
| 10782   |        | XA303     | 07  |        |           |     |      |             |      |       | TDI1ADX4 | 03     |          |             |                  |       |                     |                    |                    |        |
| 10778   |        | XA303     | 08  |        | XA418     | 16  |      | AN          | 1EB  | 0     | TDI1ADG4 | 01     |          |             |                  |       |                     |                    |                    |        |
| 20908   |        | XA303     | 08  |        | XA303     | 10  |      |             | 16B  | 9     | GND013   | 05     |          |             |                  |       |                     |                    |                    |        |
| 10809   |        | XA303     | 09  |        |           |     |      |             |      |       | TDI2ADX4 | 03     |          |             |                  |       |                     |                    |                    |        |
| 10806   |        | XA303     | 10  |        |           |     |      |             |      |       | TDI2ADG4 | 02     |          |             |                  |       |                     |                    |                    |        |
| 20909   |        | XA303     | 10  |        | XA303     | 12  |      |             | 16B  | 9     | GND013   | 06     |          |             |                  |       |                     |                    |                    |        |
| 06678   |        | XA303     | 11  |        |           |     |      |             |      |       | SPP      | 01     |          |             |                  |       |                     |                    |                    |        |
| 03211   |        | XA303     | 12  |        | XA303     | 14  |      |             | 16B  | 9     | GND013   | 07     |          |             |                  |       |                     |                    |                    |        |
| 10836   |        | XA303     | 13  |        |           |     |      |             |      |       | TDI3ADX4 | 03     |          |             |                  |       |                     |                    |                    |        |
| 10832   |        | XA303     | 14  |        | XA420     | 45  |      | AQ          | 1EB  | 0     | TDI3ADG4 | 01     |          |             |                  |       |                     |                    |                    |        |
| 20910   |        | XA303     | 14  |        | XA303     | 16  |      |             | 16B  | 9     | GND013   | 08     |          |             |                  |       |                     |                    |                    |        |
| 06679   |        | XA303     | 15  |        |           |     |      |             |      |       | SPP      | 01     |          |             |                  |       |                     |                    |                    |        |
| 03213   |        | XA303     | 16  |        | XA303     | 18  |      |             | 16B  | 9     | GND013   | 09     |          |             |                  |       |                     |                    |                    |        |
| 10863   |        | XA303     | 17  |        |           |     |      |             |      |       | TDI4ADX4 | 03     |          |             |                  |       |                     |                    |                    |        |
| 10860   |        | XA303     | 18  |        |           |     |      |             |      |       | TDI4ADG4 | 02     |          |             |                  |       |                     |                    |                    |        |
| 20911   |        | XA303     | 18  |        | XA303     | 20  |      |             | 16B  | 9     | GND013   | 10     |          |             |                  |       |                     |                    |                    |        |
| 10890   |        | XA303     | 19  |        |           |     |      |             |      |       | TDI5ADX4 | 03     |          |             |                  |       |                     |                    |                    |        |
| 10886   |        | XA303     | 20  |        | XA418     | 42  |      | AS          | 1EB  | 0     | TDI5ADG4 | 01     |          |             |                  |       |                     |                    |                    |        |
| 20912   |        | XA303     | 20  |        |           |     |      |             |      |       | GND013   | 11     |          |             |                  |       |                     |                    |                    |        |
| 10917   |        | XA303     | 21  |        |           |     |      |             |      |       | TDI6ADX4 | 03     |          |             |                  |       |                     |                    |                    |        |
| 10913   |        | XA303     | 22  |        | XA418     | 21  |      | AT          | 1EB  | 0     | TDI6ADG4 | 01     |          |             |                  |       |                     |                    |                    |        |
| 20914   |        | XA303     | 22  |        | XA303     | 24  |      |             | 16B  | 9     | GND014   | 02     |          |             |                  |       |                     |                    |                    |        |
| 10944   |        | XA303     | 23  |        |           |     |      |             |      |       | TDI7ADX4 | 03     |          |             |                  |       |                     |                    |                    |        |
| 10940   |        | XA303     | 24  |        | XA420     | 53  |      | AU          | 1EB  | 0     | TDI7ADG4 | 01     |          |             |                  |       |                     |                    |                    |        |
| 20915   |        | XA303     | 24  |        | XA303     | 26  |      |             | 16B  | 9     | GND014   | 03     |          |             |                  |       |                     |                    |                    |        |
| 12514   |        | XA303     | 25  |        | XA420     | 80  |      | BF          | 1EB  | 9     | TENAADX4 | 005    |          |             |                  |       |                     |                    |                    |        |
| 12510   |        | XA303     | 26  |        | XA420     | 79  |      | BF          | 1EB  | 0     | TENAADG4 | 01     |          |             |                  |       |                     |                    |                    |        |
| 20916   |        | XA303     | 26  |        | XA303     | 28  |      |             | 16B  | 9     | GND014   | 04     |          |             |                  |       |                     |                    |                    |        |
| 06680   |        | XA303     | 27  |        |           |     |      |             |      |       | SPP      | 01     |          |             |                  |       |                     |                    |                    |        |
| 03214   |        | XA303     | 28  |        | XA303     | 30  |      |             | 16B  | 9     | GND014   | 05     |          |             |                  |       |                     |                    |                    |        |
| 09735   |        | XA303     | 29  |        | XA410     | 19  |      |             | 16B  | 9     | TCMDADX4 | 01     |          |             |                  |       |                     |                    |                    |        |
| 09734   |        | XA303     | 30  |        |           |     |      |             |      |       | TCMDADG4 | 02     |          |             |                  |       |                     |                    |                    |        |
| 20917   |        | XA303     | 30  |        | XA303     | 32  |      |             | 16B  | 9     | GND014   | 06     |          |             |                  |       |                     |                    |                    |        |
| 06681   |        | XA303     | 31  |        |           |     |      |             |      |       | SPP      | 01     |          |             |                  |       |                     |                    |                    |        |
| 03215   |        | XA303     | 32  |        | XA303     | 34  |      |             | 16B  | 9     | GND014   | 07     |          |             |                  |       |                     |                    |                    |        |
| 13314   |        | XA303     | 33  |        | XA416     | 27  |      | BG          | 1EB  | 9     | TINDADX4 | 005    |          |             |                  |       |                     |                    |                    |        |
| 13310   |        | XA303     | 34  |        | XA416     | 25  |      | BG          | 1EB  | 0     | TINDADG4 | 01     |          |             |                  |       |                     |                    |                    |        |
| 20918   |        | XA303     | 34  |        | XA303     | 36  |      |             | 16B  | 9     | GND014   | 08     |          |             |                  |       |                     |                    |                    |        |
| CONNECTOR (XA303) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |          |        |          |             |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA303  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 179

| RECORD NUMBER                                     | FROM   |           |     | TO  |       |       | WIRE        |      |       |       | SIGNAL | SEQ NO    | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|-------|-------|-------------|------|-------|-------|--------|-----------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | PIN   | IN PA | MULTI GROUP | CODE | COLOR | IDENT |        |           |          |      |        |                  |       |                     |                    |                    |        |
| 06682   |        | XA303     | 35  |     | XA439 | 55    |             |      | 16B   | 9     |        | XAIRCD4   | 005      |      |        |                  |       |                     |                    |                    |        |
| 03216   |        | XA303     | 36  |     | XA303 | 38    |             |      | 16B   | 9     |        | GND014    | 09       |      |        |                  |       |                     |                    |                    |        |
| 15328   |        | XA303     | 37  |     |       |       |             |      |       |       |        | TRQ1ADX4  | 03       |      |        |                  |       |                     |                    |                    |        |
| 15325   |        | XA303     | 38  |     |       |       |             |      |       |       |        | TRQ1ADG4  | 02       |      |        |                  |       |                     |                    |                    |        |
| 20919   |        | XA303     | 38  |     | XA303 | 40    |             |      | 16B   | 9     |        | GND014    | 10       |      |        |                  |       |                     |                    |                    |        |
| 15345   |        | XA303     | 39  |     |       |       |             |      |       |       |        | TRQ2ADX4  | 03       |      |        |                  |       |                     |                    |                    |        |
| 15341   |        | XA303     | 40  |     | XA418 | 58    |             | BK   | 1EB   | 0     |        | TRQ2ADG4  | 01       |      |        |                  |       |                     |                    |                    |        |
| 20920   |        | XA303     | 40  |     |       |       |             |      |       |       |        | GND014    | 11       |      |        |                  |       |                     |                    |                    |        |
| 15361   |        | XA303     | 41  |     |       |       |             |      |       |       |        | TRQ3ADX4  | 03       |      |        |                  |       |                     |                    |                    |        |
| 15357   |        | XA303     | 42  |     | XA418 | 44    |             | BL   | 1EB   | 0     |        | TRQ3ADG4  | 01       |      |        |                  |       |                     |                    |                    |        |
| 20922   |        | XA303     | 42  |     | XA303 | 44    |             |      | 16B   | 9     |        | GND015    | 02       |      |        |                  |       |                     |                    |                    |        |
| 06683   |        | XA303     | 43  |     |       |       |             |      |       |       |        | SPP       | 01       |      |        |                  |       |                     |                    |                    |        |
| 03220   |        | XA303     | 44  |     | XA303 | 46    |             |      | 16B   | 9     |        | GND015    | 03       |      |        |                  |       |                     |                    |                    |        |
| 15374   |        | XA303     | 45  |     |       |       |             |      |       |       |        | TRQ4ADX4  | 03       |      |        |                  |       |                     |                    |                    |        |
| 15370   |        | XA303     | 46  |     | XA420 | 58    |             | BM   | 1EB   | 0     |        | TRQ4ADG4  | 01       |      |        |                  |       |                     |                    |                    |        |
| 20923   |        | XA303     | 46  |     | XA303 | 48    |             |      | 16B   | 9     |        | GND015    | 04       |      |        |                  |       |                     |                    |                    |        |
| 15390   |        | XA303     | 47  |     |       |       |             |      |       |       |        | TRQ5ADX4  | 03       |      |        |                  |       |                     |                    |                    |        |
| 15387   |        | XA303     | 48  |     |       |       |             |      |       |       |        | TRQ5ADG4  | 02       |      |        |                  |       |                     |                    |                    |        |
| 20924   |        | XA303     | 48  |     | XA303 | 50    |             |      | 16B   | 9     |        | GND015    | 05       |      |        |                  |       |                     |                    |                    |        |
| 15406   |        | XA303     | 49  |     |       |       |             |      |       |       |        | TRQ6ADX4  | 03       |      |        |                  |       |                     |                    |                    |        |
| 15402   |        | XA303     | 50  |     | XA418 | 79    |             | BP   | 1EB   | 0     |        | TRQ6ADG4  | 01       |      |        |                  |       |                     |                    |                    |        |
| 20925   |        | XA303     | 50  |     | XA303 | 52    |             |      | 16B   | 9     |        | GND015    | 06       |      |        |                  |       |                     |                    |                    |        |
| 15422   |        | XA303     | 51  |     |       |       |             |      |       |       |        | TRQ7ADX4  | 03       |      |        |                  |       |                     |                    |                    |        |
| 15418   |        | XA303     | 52  |     | XA418 | 59    |             | BQ   | 1EB   | 0     |        | TRQ7ADG4  | 01       |      |        |                  |       |                     |                    |                    |        |
| 20926   |        | XA303     | 52  |     | XA303 | 54    |             |      | 16B   | 9     |        | GND015    | 07       |      |        |                  |       |                     |                    |                    |        |
| 09114   |        | XA303     | 53  |     | XA416 | 37    |             |      | 16B   | 9     |        | TBRSA DX4 | 01       |      |        |                  |       |                     |                    |                    | 805    |
| 09113   |        | XA303     | 54  |     |       |       |             |      |       |       |        | TBRSA DG4 | 02       |      |        |                  |       |                     |                    |                    |        |
| 20927   |        | XA303     | 54  |     | XA303 | 56    |             |      | 16B   | 9     |        | GND015    | 08       |      |        |                  |       |                     |                    |                    |        |
| 06684   |        | XA303     | 55  |     | XA439 | 79    |             |      | 16B   | 9     |        | XBIRCD4   | 005      |      |        |                  |       |                     |                    |                    |        |
| 03219   |        | XA303     | 56  |     | XA303 | 58    |             |      | 16B   | 9     |        | GND015    | 09       |      |        |                  |       |                     |                    |                    |        |
| 06685   |        | XA303     | 57  |     |       |       |             |      |       |       |        | SPP       | 01       |      |        |                  |       |                     |                    |                    |        |
| 03218   |        | XA303     | 58  |     | XA303 | 60    |             |      | 16B   | 9     |        | GND015    | 10       |      |        |                  |       |                     |                    |                    |        |
| 06686   |        | XA303     | 59  |     | XA439 | 73    |             |      | 16B   | 9     |        | XCIRCD4   | 005      |      |        |                  |       |                     |                    |                    |        |
| 03217   |        | XA303     | 60  |     |       |       |             |      |       |       |        | GND015    | 11       |      |        |                  |       |                     |                    |                    |        |
| 06687   |        | XA303     | 61  |     | XA439 | 69    |             |      | 16B   | 9     |        | XDIRCD4   | 005      |      |        |                  |       |                     |                    |                    |        |
| 03221   |        | XA303     | 62  |     | XA303 | 68    |             |      | 16B   | 9     |        | GND016    | 01       |      |        |                  |       |                     |                    |                    |        |
| 00255   |        | XA303     | 63  |     | XA107 | 36    |             | LR   | 1ED   | 2     |        | +5I0DC    | 04       |      |        |                  |       |                     |                    |                    | 805    |
| 00260   |        | XA303     | 64  |     | XA106 | 32    |             | LR   | 1ED   | 0     |        | +5I0DG    | 04       |      |        |                  |       |                     |                    |                    | 805    |
| 00254   |        | XA303     | 65  |     | XA303 | 63    |             |      | 16B   | 9     |        | +5I0DC    | 03       |      |        |                  |       |                     |                    |                    |        |
| 00259   |        | XA303     | 66  |     | XA303 | 64    |             |      | 16B   | 9     |        | +5I0DG    | 03       |      |        |                  |       |                     |                    |                    |        |
| 20331   |        | XA303     | 67  |     |       |       |             |      |       |       |        | LOGC1B    | 03       |      |        |                  |       |                     |                    |                    |        |
| 03222   |        | XA303     | 68  |     | XA303 | 70    |             |      | 16B   | 9     |        | GND016    | 02       |      |        |                  |       |                     |                    |                    |        |
| 20332   |        | XA303     | 69  |     | XA301 | 69    |             |      | 16B   | 9     |        | LOGC2B    | 00C      |      |        |                  |       |                     |                    |                    |        |
| 03223   |        | XA303     | 70  |     | XA303 | 72    |             |      | 16B   | 9     |        | GND016    | 03       |      |        |                  |       |                     |                    |                    |        |
| 06688   |        | XA303     | 71  |     |       |       |             |      |       |       |        | SPP       | 01       |      |        |                  |       |                     |                    |                    |        |
| 03224   |        | XA303     | 72  |     | XA303 | 74    |             |      | 16B   | 9     |        | GND016    | 04       |      |        |                  |       |                     |                    |                    |        |
| 06689   |        | XA303     | 73  |     |       |       |             |      |       |       |        | SPP       | 01       |      |        |                  |       |                     |                    |                    |        |
| 03225   |        | XA303     | 74  |     | XA303 | 76    |             |      | 16B   | 9     |        | GND016    | 05       |      |        |                  |       |                     |                    |                    |        |
| 06690   |        | XA303     | 75  |     | XA430 | 78    |             |      | 16B   | 9     |        | XEIRCD4   | 005      |      |        |                  |       |                     |                    |                    |        |
| 03226   |        | XA303     | 76  |     | XA303 | 78    |             |      | 16B   | 9     |        | GND016    | 06       |      |        |                  |       |                     |                    |                    |        |
| CONNECTOR (XA303) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |       |       |             |      |       |       |        |           |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA303  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 180

| RECORD NUMBER                                     | FROM   |           |     | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 06691   |        | XA303     | 77  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03227   |        | XA303     | 78  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 06692   |        | XA303     | 79  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03228   |        | XA303     | 80  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13378   |        | XA304     | 01  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 02352   |        | XA304     | 02  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20905   |        | XA304     | 02  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05479   |        | XA304     | 03  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13343   |        | XA304     | 04  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13462   |        | XA304     | 05  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13369   |        | XA304     | 06  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05488   |        | XA304     | 07  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10739   |        | XA304     | 08  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07888   |        | XA304     | 09  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13372   |        | XA304     | 10  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13558   |        | XA304     | 11  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00470   |        | XA304     | 12  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13492   |        | XA304     | 13  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13408   |        | XA304     | 14  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13382   |        | XA304     | 15  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 02353   |        | XA304     | 16  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20913   |        | XA304     | 16  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13445   |        | XA304     | 17  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13690   |        | XA304     | 18  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13426   |        | XA304     | 19  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16341   |        | XA304     | 20  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13448   |        | XA304     | 21  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07889   |        | XA304     | 22  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16349   |        | XA304     | 23  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05489   |        | XA304     | 24  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 09179   |        | XA304     | 25  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05481   |        | XA304     | 26  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16365   |        | XA304     | 27  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00471   |        | XA304     | 28  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13379   |        | XA304     | 29  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13479   |        | XA304     | 30  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05482   |        | XA304     | 31  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 02354   |        | XA304     | 32  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13490   |        | XA304     | 33  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13467   |        | XA304     | 34  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05490   |        | XA304     | 35  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15613   |        | XA304     | 36  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05483   |        | XA304     | 37  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13474   |        | XA304     | 38  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07890   |        | XA304     | 39  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15602   |        | XA304     | 40  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13469   |        | XA304     | 41  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13468   |        | XA304     | 42  |        |        |          |      |        |                  |       |                     |                    |                    |        |
| CONNECTOR (XA304) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA304  
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| RECORD NUMBER | FROM   |           |                                 |        | TO     |           |     |        | WIRE        |      | SFC LIST | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---------------|--------|-----------|---------------------------------|--------|--------|-----------|-----|--------|-------------|------|----------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|               | PREFIX | CONNECTOR | PIN                             | LETTER | PREFIX | CONNECTOR | PIN | LETTER | MULTI GROUP | CODE |          |          |        |          |      |        |                  |       |                     |                    |                    |                  |
| 16397         |        | XA304     | 43                              |        | XA206  | 29        |     |        | 168         | 9    |          | TS24BQ   | 01     | TI111A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |                  |
| 02355         |        | XA304     | 44                              |        |        |           |     |        |             |      |          | GND      | 01     |          |      |        |                  |       |                     | 21B                |                    |                  |
| 20921         |        | XA304     | 44                              |        | XA303  | 42        |     |        | 168         | 9    |          | GND015   | 01     |          |      |        |                  |       |                     | 21B                |                    |                  |
| 13550         |        | XA304     | 45                              |        | XA206  | 10        |     |        | 168         | 9    |          | TI111A   | 01     | TI111A   | 00   | 1      | TQ2              | D3    |                     | 24B                |                    | STATE S24.ITR    |
| 13515         |        | XA304     | 46                              |        |        |           |     |        |             |      |          | TI1C1A   | 02     | TI1C1A   | 00   | 1      | TQ2              | D2    |                     | 21A                |                    | STATE TI.C1*-A   |
| 05491         |        | XA304     | 47                              |        | XA315  | 75        |     |        | 168         | 9    |          | SPI022   | 04     |          |      |        |                  |       |                     | 25B                |                    | 003              |
| 13526         |        | XA304     | 48                              |        | XA413  | 29        |     |        | 168         | 9    |          | TI10BQ   | 02     | TI1C1A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |                  |
| 05484         |        | XA304     | 49                              |        | XA315  | 77        |     |        | 168         | 9    |          | SPI021   | 29     |          |      |        |                  |       |                     | 26B                |                    | 003              |
| 09159         |        | XA304     | 50                              |        | XA213  | 63        |     |        | 168         | 9    |          | TBST1A   | 01     | TI1C1A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |                  |
| 07891         |        | XA304     | 51                              |        |        |           |     |        |             |      |          | SP0      | 01     |          |      |        |                  |       |                     | 27B                |                    |                  |
| 13512         |        | XA304     | 52                              |        | XA205  | 69        |     |        | 168         | 9    |          | TI0SA0   | 01     | TI0SA0   | 00   | 1      | TQ2              | D1    |                     | 24A                |                    | MASTER RESET + B |
| 13573         |        | XA304     | 53                              |        |        |           |     |        |             |      |          | TI20BP   | 07     | TI23B0   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |                  |
| 13498         |        | XA304     | 54                              |        | XA308  | 48        |     |        | 168         | 9    |          | TI0IHA   | 02     | TI0SA0   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |                  |
| 13628         |        | XA304     | 55                              |        |        |           |     |        |             |      |          | TI3B1A   | 02     | TI23B0   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |                  |
| 09199         |        | XA304     | 56                              |        | XA207  | 35        |     |        | 168         | 9    |          | TBST2P   | 01     | TI0SA0   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |                  |
| 13612         |        | XA304     | 57                              |        |        |           |     |        |             |      |          | TI23B0   | 09     | TI23B0   | 00   | 1      | TQ2              | E3    |                     | 30B                |                    | I2 + I3.BYTE 1   |
| 02356         |        | XA304     | 58                              |        |        |           |     |        |             |      |          | GND      | 29     |          |      |        |                  |       |                     | 27A                |                    |                  |
| 14214         |        | XA304     | 59                              |        | XA106  | 63        |     |        | 168         | 9    |          | TMRUAA4  | 01     | TI2310   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    | A01              |
| 13618         |        | XA304     | 60                              |        |        |           |     |        |             |      |          | TI23X0   | 02     | TI23X0   | 00   | 1      | TQ2              | E2    |                     | 28A                |                    | I3 ENABLE PULSE  |
| 13626         |        | XA304     | 61                              |        |        |           |     |        |             |      |          | TI232A   | 03     | TI2310   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |                  |
| 05486         |        | XA304     | 62                              |        | XA304  | 77        |     |        | 168         | 9    |          | SPI021   | 31     | TI23X0   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |                  |
| 13622         |        | XA304     | 63                              |        | XA112  | 43        |     |        | 168         | 9    |          | TI2310   | 01     | TI2310   | 00   | 1      | TQ2              | E4    |                     | 33B                |                    | MASTER RST+C2*.C |
| 13616         |        | XA304     | 64                              |        |        |           |     |        |             |      |          | TI23XA   | 02     | TI23X0   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |                  |
| 12604         |        | XA304     | 65                              |        | XA112  | 61        |     |        | 168         | 9    |          | TE0BBQ   | 01     | TE0B1A   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |                  |
| 13561         |        | XA304     | 66                              |        | XA112  | 56        |     |        | 168         | 9    |          | TI1250   | 01     | TI1250   | 00   | 1      | TQ2              | E1    |                     | 31A                |                    | BURST + BOOTSTRA |
| 02357         |        | XA304     | 67                              |        |        |           |     |        |             |      |          | GND      | 01     |          |      |        |                  |       |                     | 40A                |                    |                  |
| 20928         |        | XA304     | 67                              |        | XA303  | 62        |     |        | 168         | 9    |          | GND016   | 00C    |          |      |        |                  |       |                     | 40A                |                    |                  |
| 09198         |        | XA304     | 68                              |        |        |           |     |        |             |      |          | TBST2A   | 11     | TI1250   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |                  |
| 12608         |        | XA304     | 69                              |        |        |           |     |        |             |      |          | TE0B1A   | 02     | TE0B1A   | 00   | 1      | TQ2              | F3    |                     | 35A                |                    | E0B NOT I3       |
| 14458         |        | XA304     | 70                              |        | XA443  | 59        |     |        | 168         | 9    |          | TMO1BP   | 05     | TI1250   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |                  |
| 12426         |        | XA304     | 71                              |        | XA315  | 59        |     |        | 168         | 9    |          | Y032BQ   | 01     | TMPB1A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |                  |
| 14153         |        | XA304     | 72                              |        | XA115  | 31        |     |        | 168         | 9    |          | TMPB1A   | 01     | TMPB1A   | 00   | 1      | TQ2              | F2    |                     | 34A                |                    | PE P BIT TO BUSS |
| 14694         |        | XA304     | 73                              |        | XA113  | 78        |     |        | 168         | 9    |          | TPERBQ   | 01     | TMPB1A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |                  |
| 13629         |        | XA304     | 74                              |        | XA305  | 18        |     |        | 168         | 9    |          | TI30BP   | 01     | TE0B1A   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |                  |
| 13665         |        | XA304     | 75                              |        | XA113  | 50        |     |        | 168         | 9    |          | TI321A   | 01     | TI321A   | 00   | 1      | TQ2              | F1    |                     | 37B                |                    | RESET- MR+CMD*.C |
| 15292         |        | XA304     | 76                              |        | XA205  | 62        |     |        | 168         | 9    |          | TREQB0   | 03     | TINTSA   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |                  |
| 05487         |        | XA304     | 77                              |        | XA304  | 04        |     |        | 168         | 9    |          | SPI021   | 32     | TI321A   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    | F01              |
| 13390         |        | XA304     | 78                              |        | XA406  | 79        |     |        | 168         | 9    |          | TINTADX4 | 005    | TINTSA   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |                  |
| 13668         |        | XA304     | 79                              |        |        |           |     |        |             |      |          | TI3210   | 02     | TI321A   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |                  |
| 13406         |        | XA304     | 80                              |        |        |           |     |        |             |      |          | TINTSA   | 02     | TINTSA   | 00   | 1      | TQ2              | F4    |                     | 39A                |                    |                  |
| 13424         |        | XA305     | 01                              |        |        |           |     |        |             |      |          | TIPE00   | 02     | TIPESA   | 01   | 1      | TD4              | A2    |                     | 02B                |                    |                  |
| 02358         |        | XA305     | 02                              |        |        |           |     |        |             |      |          | GND      | 01     |          |      |        |                  |       |                     | 01A                |                    |                  |
| 01082         |        | XA305     | 03                              |        |        |           |     |        |             |      |          | DNW      | 01     |          |      |        |                  |       |                     |                    |                    |                  |
| 16625         |        | XA305     | 04                              |        |        |           |     |        |             |      |          | TTESPO   | 03     | TIPESA   | 01   | 2      | TD4              | A2    |                     | 04A                |                    |                  |
| 13278         |        | XA305     | 05                              |        | XA426  | 80        |     |        | 168         | 9    |          | TICPEA   | 01     | TIPESA   | 01   | 3      | TD4              | A2    |                     | 03B                |                    | I/O PARITY ERROR |
| 16520         |        | XA305     | 06                              |        |        |           |     |        |             |      |          | TS7BSA   | 03     | TE0BA0   | 01   | 1      | TD4              | A1    |                     | 03A                |                    |                  |
| 13525         |        | XA305     | 07                              |        | XA304  | 48        |     |        | 168         | 9    |          | TI10BQ   | 01     | TIPESA   | 01   | 4      | TD4              | A2    |                     | 03A                |                    |                  |
| 05480         |        | XA305     | 08                              |        | XA304  | 26        |     |        | 168         | 9    |          | SPI021   | 25     | TE0BA0   | 01   | 2      | TD4              | A1    |                     | 06A                |                    |                  |
| CONNECTOR     |        | XA305     | CONTINUED ON THE NEXT PAGE **** |        |        |           |     |        |             |      |          |          |        |          |      |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA305  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 182

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE  |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------|-------------|------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | KEY | PREFIX | CONNECTOR | PIN | KEY | SH PG | MULTI GROUP | CODE | COLOR |        |        |          |        |        |                  |       |                     |                    |                    |        |
| 13421         | XA305  | 09        |                                 |     | XA113  | 39        |     |     |       | 16B         | 9    |       |        | TIPESA | 01       | TIPESA | 00     | 1                | TD4   | A2                  | 04B                | INPUT PARITY ERR   |        |
| 16527         | XA305  | 10        |                                 |     | XA207  | 55        |     |     |       | 16B         | 9    |       |        | TS77AA | 05       | TE08A0 | 01     | 3                | TD4   | A1                  | 07A                |                    |        |
| 12601         | XA305  | 11        |                                 |     |        |           |     |     |       |             |      |       |        | TE08A0 | 04       | TE08A0 | 03     | 1                | TD4   | A1                  | 05B                | SET EOB F/F        |        |
| 00472         | XA305  | 12        |                                 |     |        |           |     |     |       |             |      |       |        | +5V    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 12607         | XA305  | 13        |                                 |     | XA304  | 69        |     |     |       | 16B         | 9    |       |        | TE08A0 | 01       | TE08A0 | 01     | 4                | TD4   | A1                  | 06B                |                    |        |
| 13923         | XA305  | 14        |                                 |     | XA340  | 06        |     |     |       | 16B         | 9    |       |        | TK00BQ | 01       | TI22XA | 01     | 1                | TD4   | B2                  | 09A                |                    |        |
| 01083         | XA305  | 15        |                                 |     |        |           |     |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 02359         | XA305  | 16        |                                 |     |        |           |     |     |       |             |      |       |        | GND    | 01       |        |        |                  | TD4   |                     | 20B                |                    |        |
| 01084         | XA305  | 17        |                                 |     |        |           |     |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 13630         | XA305  | 18        |                                 |     | XA108  | 35        |     |     |       | 16B         | 9    |       |        | TI30BP | 02       | TI22XA | 01     | 2                | TD4   | B2                  | 10A                |                    |        |
| 16373         | XA305  | 19        |                                 |     | XA112  | 23        |     |     |       | 16B         | 9    |       |        | TS23BQ | 01       | TI22XA | 01     | 3                | TD4   | B2                  | 09B                |                    |        |
| 16994         | XA305  | 20        |                                 |     |        |           |     |     |       |             |      |       |        | TXC2BQ | 05       | TI22XA | 01     | 4                | TD4   | B2                  | 11A                |                    |        |
| 13603         | XA305  | 21        |                                 |     |        |           |     |     |       |             |      |       |        | TI22XA | 02       | TI22XA | 00     | 1                | TD4   | B2                  | 10B                | S24 SHIFT PULSE    |        |
| 13595         | XA305  | 22        |                                 |     | XA330  | 76        |     |     |       | 16B         | 9    |       |        | TI211A | 01       | TI2100 | 01     | 1                | TD4   | B1                  | 12A                |                    |        |
| 13594         | XA305  | 23        |                                 |     |        |           |     |     |       |             |      |       |        | TI2100 | 02       | TI2100 | 00     | 1                | TD4   | B1                  | 11B                | STATE I2 ORED DA   |        |
| 14888         | XA305  | 24        |                                 |     | XA351  | 80        |     |     |       | 16B         | 9    |       |        | TPS12A | 01       | TI2100 | 01     | 2                | TD4   | B1                  | 13A                |                    |        |
| 13599         | XA305  | 25        |                                 |     |        |           |     |     |       |             |      |       |        | TI212A | 03       | TI2100 | 01     | 3                | TD4   | B1                  | 12B                |                    |        |
| 13581         | XA305  | 26        |                                 |     | XA205  | 31        |     |     |       | 16B         | 9    |       |        | TI20CA | 01       | TI2100 | 01     | 4                | TD4   | B1                  | 14A                |                    |        |
| 01085         | XA305  | 27        |                                 |     |        |           |     |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 00473         | XA305  | 28        |                                 |     |        |           |     |     |       |             |      |       |        | +5V    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 01086         | XA305  | 29        |                                 |     |        |           |     |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 10031         | XA305  | 30        |                                 |     | XA443  | 33        |     |     |       | 16B         | 9    |       |        | TCOMPA | 01       | TSTB1A | 01     | 1                | TD4   | C2                  | 15A                |                    |        |
| 15794         | XA305  | 31        |                                 |     | XA342  | 48        |     |     |       | 16B         | 9    |       |        | TS01CO | 02       | TSTB1A | 01     | 2                | TD4   | C2                  | 15B                |                    |        |
| 02360         | XA305  | 32        |                                 |     |        |           |     |     |       |             |      |       |        | GND    | 01       |        |        |                  | TD4   |                     | 21B                |                    |        |
| 15684         | XA305  | 33        |                                 |     |        |           |     |     |       |             |      |       |        | TSTB1A | 03       | TSTB1A | 00     | 1                | TD4   | C2                  | 16B                | NO COMPARE IN BU   |        |
| 14438         | XA305  | 34        |                                 |     | XA418  | 52        |     |     |       | 16B         | 9    |       |        | TMO0BQ | 02       | TSTB1A | 01     | 3                | TD4   | C2                  | 16A                |                    |        |
| 13625         | XA305  | 35        |                                 |     | XA304  | 61        |     |     |       | 16B         | 9    |       |        | TI232A | 02       | TI232A | 00     | 1                | TD4   | C1                  | 17B                | C2*.C3.BYTE 1*.0   |        |
| 09144         | XA305  | 36        |                                 |     | XA206  | 46        |     |     |       | 16B         | 9    |       |        | T8RSU0 | 01       | TSTB1A | 01     | 4                | TD4   | C2                  | 17A                |                    |        |
| 08747         | XA305  | 37        |                                 |     | XA330  | 77        |     |     |       | 16B         | 9    |       |        | T8CI8P | 01       | TI232A | 01     | 1                | TD4   | C1                  | 18B                |                    |        |
| 16989         | XA305  | 38        |                                 |     |        |           |     |     |       |             |      |       |        | TXC2BP | 10       | TI232A | 01     | 2                | TD4   | C1                  | 18A                |                    |        |
| 01087         | XA305  | 39        |                                 |     |        |           |     |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 17012         | XA305  | 40        |                                 |     |        |           |     |     |       |             |      |       |        | TXC3BQ | 08       | TI232A | 01     | 3                | TD4   | C1                  | 19A                |                    |        |
| 01088         | XA305  | 41        |                                 |     |        |           |     |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 10053         | XA305  | 42        |                                 |     |        |           |     |     |       |             |      |       |        | TCOSAB | 11       | TI232A | 01     | 4                | TD4   | C1                  | 20A                |                    |        |
| 08415         | XA305  | 43        |                                 |     | XA333  | 73        |     |     |       | 16B         | 9    |       |        | TAVEBP | 03       | TINITO | 01     | 1                | TD4   | O2                  | 23B                |                    | C01    |
| 02361         | XA305  | 44        |                                 |     |        |           |     |     |       |             |      |       |        | GND    | 01       |        |        |                  | TD4   |                     | 27A                |                    |        |
| 13380         | XA305  | 45        |                                 |     | XA341  | 37        |     |     |       | 16B         | 9    |       |        | TINITO | 02       | TINITO | 00     | 1                | TD4   | D2                  | 24E                | IND.ITR**+170 T.O. |        |
| 14390         | XA305  | 46        |                                 |     | XA305  | 74        |     |     |       | 16B         | 9    |       |        | TMT0BP | 06       | TINITO | 01     | 2                | TD4   | O2                  | 21A                |                    |        |
| 07892         | XA305  | 47        |                                 |     |        |           |     |     |       |             |      |       |        | TPEB1A | 02       | TPEB1A | 00     | 1                | TD4   | O1                  | 25B                |                    | 003    |
| 13455         | XA305  | 48        |                                 |     |        |           |     |     |       |             |      |       |        | TITMRP | 06       | TINITO | 01     | 3                | TD4   | O2                  | 22A                |                    |        |
| 05492         | XA305  | 49        |                                 |     | XA250  | 47        |     |     |       | 16B         | 9    |       |        | YS8210 | 005      | TPEB1A | 01     | 1                | TD4   | O1                  | 26B                |                    | 003    |
| 13377         | XA305  | 50        |                                 |     | XA206  | 74        |     |     |       | 16B         | 9    |       |        | TINIRA | 01       | TINITO | 01     | 4                | TD4   | O2                  | 23A                |                    | F01    |
| 01089         | XA305  | 51        |                                 |     |        |           |     |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 05455         | XA305  | 52        |                                 |     |        |           |     |     |       |             |      |       |        | TMS3BP | 07       | TPEB1A | 01     | 2                | TD4   | D1                  | 24A                |                    | 003    |
| 01090         | XA305  | 53        |                                 |     |        |           |     |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |        |
| 05003         | XA305  | 54        |                                 |     | XA213  | 14        |     |     |       | 16B         | 9    |       |        | TPEM30 | 01       | TPEB1A | 01     | 3                | TD4   | O1                  | 25A                |                    | 003    |
| 05518         | XA305  | 55        |                                 |     | XA305  | 70        |     |     |       | 16B         | 9    |       |        | SPI023 | 01       | TS2000 | 01     | 1                | TD4   | E2                  | 29B                |                    |        |
| 05485         | XA305  | 56        |                                 |     | XA342  | 74        |     |     |       | 16B         | 9    |       |        | TS14BP | 00       | TPEB1A | 01     | 4                | TD4   | O1                  | 26A                |                    | 003    |
| 16292         | XA305  | 57        |                                 |     |        |           |     |     |       |             |      |       |        | YS2030 | 02       | YS2000 | 00     | 1                | TD4   | E2                  | 30B                | S03(BURST + BOOT   |        |
| 02362         | XA305  | 58        |                                 |     |        |           |     |     |       |             |      |       |        | GND    | 01       |        |        |                  | TD4   |                     | 40A                |                    |        |
| CONNECTOR     |        | XA305     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |       |             |      |       |        |        |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA305  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 183

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM   | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO            |     |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|---------|----------|--------|------------------|-------|---------------------|--------------------|--------------------|-------------------|-----|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |        |                  |       |                     |                    |                    |                   |     |
| 13497   |        | XA305     | 59  |        | XA304     | 54  |             | 16B  | 9     |       |        | TIOIHA  | 01       | TIOIHA | 00               | 1     | TD4                 | E1                 | 31B                | I/O RESET SIGNAL  |     |
| 16300   |        | XA305     | 6C  |        | XA351     | 64  |             | 16B  | 9     |       |        | TS203A  | 01       | TS2000 | 01               | 2     | TD4                 | E2                 | 28A                |                   |     |
| 05493   |        | XA305     | 61  |        | XA313     | 74  |             | 16B  | 9     |       |        | SPI022  | 06       | TIOIHA | 01               | 1     | TD4                 | E1                 | 32B                |                   |     |
| 16298   |        | XA305     | 62  |        | XA305     | 79  |             | 16B  | 9     |       |        | TS202A  | 03       | TS2000 | 01               | 3     | TD4                 | E2                 | 29A                |                   |     |
| 01091   |        | XA305     | 63  |        |           |     |             |      |       |       |        | DNW     | 01       |        |                  |       | TD4                 |                    |                    |                   |     |
| 16293   |        | XA305     | 64  |        | XA343     | 62  |             | 16B  | 9     |       |        | TS201A  | 01       | TS2000 | 01               | 4     | TD4                 | E2                 | 30A                |                   |     |
| 01092   |        | XA305     | 65  |        |           |     |             |      |       |       |        | DNW     | 01       |        |                  |       | TD4                 |                    |                    |                   |     |
| 09744   |        | XA305     | 66  |        | XA206     | 33  |             | 16B  | 9     |       |        | TGMDBQ  | 03       | TIOIHA | 01               | 2     | TD4                 | E1                 | 31A                |                   |     |
| 02363   |        | XA305     | 67  |        |           |     |             |      |       |       |        | GND     | 01       |        |                  |       | TD4                 |                    | 40B                |                   |     |
| 12533   |        | XA305     | 68  |        | XA206     | 35  |             | 16B  | 9     |       |        | TENBBQ  | 03       | TIOIHA | 01               | 3     | TD4                 | E1                 | 32A                |                   |     |
| 08878   |        | XA305     | 69  |        |           |     |             |      |       |       |        | TBHLTA  | 03       | TBHLTA | 00               | 1     | TD4                 | F2                 | 35A                | COMP* S1 BURST.NC |     |
| 05519   |        | XA305     | 70  |        | XA308     | 79  |             | 16B  | 9     |       |        | SPI023  | 02       | TIOIHA | 01               | 4     | TD4                 | E1                 | 33A                |                   |     |
| 15798   |        | XA305     | 71  |        |           |     |             |      |       |       |        | TS01L0  | 02       | TBHLTA | 01               | 1     | TD4                 | F2                 | 34A                |                   |     |
| 14268   |        | XA305     | 72  |        | XA318     | 65  |             | 16B  | 9     |       |        | TMRUCA4 | 07       | TBHLTA | 01               | 2     | TD4                 | F2                 | 34A                |                   |     |
| 15793   |        | XA305     | 73  |        | XA305     | 31  |             | 16B  | 9     |       |        | TS01C0  | 01       | TBHLTA | 01               | 3     | TD4                 | F2                 | 36B                |                   |     |
| 14391   |        | XA305     | 74  |        |           |     |             |      |       |       |        | TMT0BP  | 07       | TBHLTA | 01               | 4     | TD4                 | F2                 | 35B                |                   |     |
| 09296   |        | XA305     | 75  |        |           |     |             |      |       |       |        | TBZZIA  | 05       | TS4XFO | 00               | 1     | TD4                 | F1                 | 37B                |                   |     |
| 16504   |        | XA305     | 76  |        | XA205     | 65  |             | 16B  | 9     |       |        | TS4XFO  | 01       | TS4XFO | 01               | 1     | TD4                 | F1                 | 37A                |                   |     |
| 09136   |        | XA305     | 77  |        | XA206     | 05  |             | 16B  | 9     |       |        | TBR5UA  | 02       | TS4XFO | 01               | 2     | TD4                 | F1                 | 38B                |                   |     |
| 14559   |        | XA305     | 78  |        |           |     |             |      |       |       |        | TMO5BP  | 07       | TS4XFO | 01               | 3     | TD4                 | F1                 | 38A                |                   |     |
| 16299   |        | XA305     | 79  |        |           |     |             |      |       |       |        | TS202A  | 04       | TS4XFO | 01               | 4     | TD4                 | F1                 | 39B                |                   |     |
| 01093   |        | XA305     | 80  |        |           |     |             |      |       |       |        | DNW     | 01       |        |                  |       | TD4                 |                    |                    |                   |     |
| 04141   |        | XA306     | 01  |        | XA307     | 07  |             | 16B  | 9     |       |        | KMR04R  | 01       | KMR04S | 01               | 1     | TT3                 | A2                 | 02B                |                   |     |
| 02364   |        | XA306     | 02  |        |           |     |             |      |       |       |        | GND     | 01       |        |                  |       | TT3                 |                    | 01B                |                   |     |
| 04457   |        | XA306     | 03  |        | XA212     | 38  |             | 16B  | 9     |       |        | K0104A  | 01       | KMR04S | 01               | 2     | TT3                 | A2                 | 02A                |                   |     |
| 10691   |        | XA306     | 04  |        |           |     |             |      |       |       |        | TDDISO  | 02       | TDDISO | 00               | 1     | TT3                 | A1                 | 04A                | (CPU1+CPU2+IOU)DD |     |
| 09164   |        | XA306     | 05  |        | XA207     | 29  |             | 16B  | 9     |       |        | TBST1P  | 01       | KMR04S | 01               | 3     | TT3                 | A2                 | 03B                |                   |     |
| 03723   |        | XA306     | 06  |        | XA106     | 03  |             | 16B  | 9     |       |        | JDDI1A1 | 01       | TDDISO | 01               | 1     | TT3                 | A1                 | 05A                |                   | B05 |
| 04146   |        | XA306     | 07  |        |           |     |             |      |       |       |        | KMR04S  | 04       | KMR04S | 00               | 1     | TT3                 | A2                 | 03A                | MONITOR REG BIT   |     |
| 03727   |        | XA306     | 08  |        | XA106     | 07  |             | 16B  | 9     |       |        | JDDI2A1 | 01       | TDDISO | 01               | 2     | TT3                 | A1                 | 06A                |                   | B05 |
| 04460   |        | XA306     | 09  |        |           |     |             |      |       |       |        | K0105A  | 02       | KMR05S | 01               | 1     | TT3                 | A3                 | 04B                |                   |     |
| 20229   |        | XA306     | 10  |        | XA107     | 06  | HL          | 1ED  | 2     |       |        | ZDDISA1 | 02       | TDDISO | 01               | 3     | TT3                 | A1                 | 07A                |                   |     |
| 04334   |        | XA306     | 11  |        |           |     |             |      |       |       |        | KSRSTA  | 02       | KMR05S | 01               | 2     | TT3                 | A3                 | 05B                |                   |     |
| 00474   |        | XA306     | 12  |        |           |     |             |      |       |       |        | +5V     | 01       |        |                  |       | TT3                 |                    |                    |                   |     |
| 04147   |        | XA306     | 13  |        | XA307     | 15  |             | 16B  | 9     |       |        | KMR05R  | 01       | KMR05S | 01               | 3     | TT3                 | A3                 | 06B                |                   |     |
| 04468   |        | XA306     | 14  |        |           |     |             |      |       |       |        | K0109A  | 02       | KMR09S | 01               | 1     | TT3                 | B2                 | 09A                |                   |     |
| 04152   |        | XA306     | 15  |        |           |     |             |      |       |       |        | KMR05S  | 04       | KMR05S | 00               | 1     | TT3                 | A3                 | 07B                | MONITOR REG BIT   |     |
| 02365   |        | XA306     | 16  |        |           |     |             |      |       |       |        | GND     | 01       |        |                  |       | TT3                 |                    | 21B                |                   |     |
| 21328   |        | XA306     | 16  |        | XA106     | 02  | HL          | 1ED  | 0     |       |        | ZDDISR  | 01       |        |                  |       | TT3                 |                    | 21B                |                   | B05 |
| 13950   |        | XA306     | 17  |        | XA319     | 74  |             | 16B  | 9     |       |        | TK090A  | 01       | KMR09S | 01               | 2     | TT3                 | B2                 | 08B                |                   |     |
| 04174   |        | XA306     | 18  |        | XA307     | 19  |             | 16B  | 9     |       |        | KMR09R  | 01       | KMR09S | 01               | 3     | TT3                 | B2                 | 10A                |                   |     |
| 04180   |        | XA306     | 19  |        |           |     |             |      |       |       |        | KMR09S  | 04       | KMR09S | 00               | 1     | TT3                 | B2                 | 09B                | MONITOR REG BIT   |     |
| 04173   |        | XA306     | 20  |        |           |     |             |      |       |       |        | KMR08S  | 04       | KMR08S | 00               | 1     | TT3                 | B1                 | 11A                | MONITOR REG BIT   |     |
| 13960   |        | XA306     | 21  |        |           |     |             |      |       |       |        | TK100A  | 02       | KMR10S | 01               | 1     | TT3                 | B3                 | 10B                |                   |     |
| 04167   |        | XA306     | 22  |        | XA307     | 20  |             | 16B  | 9     |       |        | KMR08R  | 01       | KMR08S | 01               | 1     | TT3                 | B1                 | 12A                |                   |     |
| 04469   |        | XA306     | 23  |        | XA212     | 75  |             | 16B  | 9     |       |        | K0110A  | 01       | KMR10S | 01               | 2     | TT3                 | B3                 | 11B                |                   |     |
| 04465   |        | XA306     | 24  |        | XA212     | 66  |             | 16B  | 9     |       |        | K0108A  | 01       | KMR08S | 01               | 2     | TT3                 | B1                 | 13A                |                   |     |
| 04181   |        | XA306     | 25  |        | XA307     | 27  |             | 16B  | 9     |       |        | KMR10R  | 01       | KMR10S | 01               | 3     | TT3                 | B3                 | 12B                |                   |     |
| CONNECTOR XA306 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |         |          |        |                  |       |                     |                    |                    |                   |     |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA306  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 184

| RECORD NUMBER | FROM   |           |     |    | TO     |           |     |    | WIRE      |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|----|--------|-----------|-----|----|-----------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | IN | PREFIX | CONNECTOR | PIN | IN | SERIAL NO | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 13947         |        | XA306     | 26  |    |        |           |     |    |           |             |      |       | TK080A | 03     | KMR08S   | 01   | 3      | TT3              | B1    |                     | 14A                |                    |        |
| 04185         |        | XA306     | 27  |    |        |           |     |    |           |             |      |       | KMR10S | 03     | KMR10S   | 00   | 1      | TT3              | B3    |                     | 13B                | MONITOR REG BIT    |        |
| 00475         |        | XA306     | 28  |    |        |           |     |    |           |             |      |       | +5V    | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 13964         |        | XA306     | 29  |    |        |           |     |    |           |             |      |       | TK120A | 02     | KMR12S   | 01   | 1      | TT3              | C2    |                     | 14B                |                    |        |
| 04473         |        | XA306     | 30  |    | XA211  | 06        |     |    |           | 16B         | 9    |       | K0112A | 01     | KMR12S   | 01   | 2      | TT3              | C2    |                     | 19A                |                    |        |
| 04197         |        | XA306     | 31  |    | XA307  | 30        |     |    |           | 16B         | 9    |       | KMR12S | 01     | KMR12S   | 00   | 1      | TT3              | C2    |                     | 15B                | MONITOR REG BIT    |        |
| 02366         |        | XA306     | 32  |    |        |           |     |    |           |             |      |       | GND    | 01     |          |      |        | TT3              |       |                     | 27A                |                    |        |
| 04202         |        | XA306     | 33  |    |        |           |     |    |           |             |      |       | KMR13R | 03     | KMR13S   | 01   | 1      | TT3              | C3    |                     | 16B                |                    |        |
| 04193         |        | XA306     | 34  |    | XA307  | 31        |     |    |           | 16B         | 9    |       | KMR12R | 01     | KMR12S   | 01   | 3      | TT3              | C2    |                     | 16A                |                    |        |
| 13965         |        | XA306     | 35  |    | XA332  | 15        |     |    |           | 16B         | 9    |       | TK130A | 01     | KMR13S   | 01   | 2      | TT3              | C3    |                     | 17B                |                    |        |
| 04191         |        | XA306     | 36  |    | XA307  | 42        |     |    |           | 16B         | 9    |       | KMR11S | 02     | KMR11S   | 00   | 1      | TT3              | C1    |                     | 17A                | MONITOR REG BIT    |        |
| 04476         |        | XA306     | 37  |    |        |           |     |    |           |             |      |       | K0113A | 02     | KMR13S   | 01   | 3      | TT3              | C3    |                     | 18B                |                    |        |
| 04189         |        | XA306     | 38  |    |        |           |     |    |           |             |      |       | KMR11R | 04     | KMR11S   | 01   | 1      | TT3              | C1    |                     | 18A                |                    |        |
| 04206         |        | XA306     | 39  |    |        |           |     |    |           |             |      |       | KMR13S | 04     | KMR13S   | 00   | 1      | TT3              | C3    |                     | 19B                | MONITOR REG BIT    |        |
| 04472         |        | XA306     | 40  |    |        |           |     |    |           |             |      |       | K0111A | 02     | KMR11S   | 01   | 2      | TT3              | C1    |                     | 19A                |                    |        |
| 13970         |        | XA306     | 41  |    |        |           |     |    |           |             |      |       | TK150A | 03     | KMR15S   | 01   | 1      | TT3              | D2    |                     | 22B                |                    |        |
| 13961         |        | XA306     | 42  |    | XA332  | 01        |     |    |           | 16B         | 9    |       | TK110A | 01     | KMR11S   | 01   | 3      | TT3              | C1    |                     | 20A                |                    |        |
| 04217         |        | XA306     | 43  |    | XA307  | 48        |     |    |           | 16B         | 9    |       | KMR15S | 01     | KMR15S   | 00   | 1      | TT3              | D2    |                     | 23B                | MONITOR REG BIT    |        |
| 02367         |        | XA306     | 44  |    |        |           |     |    |           |             |      |       | GND    | 01     |          |      |        | TT3              |       |                     | 40A                |                    |        |
| 04499         |        | XA306     | 45  |    | XA210  | 09        |     |    |           | 16B         | 9    |       | K0125A | 01     | KMR25S   | 01   | 1      | TT3              | D3    |                     | 24B                |                    |        |
| 04480         |        | XA306     | 46  |    |        |           |     |    |           |             |      |       | K0115A | 02     | KMR15S   | 01   | 2      | TT3              | D2    |                     | 21A                |                    |        |
| 13988         |        | XA306     | 47  |    |        |           |     |    |           |             |      |       | TK250A | 02     | KMR25S   | 01   | 2      | TT3              | D3    |                     | 25B                |                    |        |
| 04215         |        | XA306     | 48  |    | XA308  | 52        |     |    |           | 16B         | 9    |       | KMR15R | 02     | KMR15S   | 01   | 3      | TT3              | D2    |                     | 22A                |                    |        |
| 04282         |        | XA306     | 49  |    |        |           |     |    |           |             |      |       | KMR25R | 02     | KMR25S   | 01   | 3      | TT3              | D3    |                     | 26B                |                    |        |
| 04212         |        | XA306     | 50  |    | XA307  | 56        |     |    |           | 16B         | 9    |       | KMR14S | 03     | KMR14S   | 00   | 1      | TT3              | D1    |                     | 23A                | MONITOR REG BIT    |        |
| 04283         |        | XA306     | 51  |    | XA307  | 47        |     |    |           | 16B         | 9    |       | KMR25S | 01     | KMR25S   | 00   | 1      | TT3              | D3    |                     | 27B                | MONITOR REG BIT    |        |
| 04799         |        | XA306     | 52  |    | XA406  | 24        |     |    |           | 16B         | 9    |       | RTCT0A | 02     | KMR14S   | 01   | 1      | TT3              | D1    |                     | 24A                |                    |        |
| 04503         |        | XA306     | 53  |    | XA210  | 21        |     |    |           | 16B         | 9    |       | K0127A | 01     | KMR27S   | 01   | 1      | TT3              | E2    |                     | 28B                |                    |        |
| 04209         |        | XA306     | 54  |    |        |           |     |    |           |             |      |       | KMR14R | 03     | KMR14S   | 01   | 2      | TT3              | D1    |                     | 25A                |                    |        |
| 04295         |        | XA306     | 55  |    | XA307  | 62        |     |    |           | 16B         | 9    |       | KMR27S | 01     | KMR27S   | 00   | 1      | TT3              | E2    |                     | 29B                | MONITOR REG BIT    |        |
| 04477         |        | XA306     | 56  |    | XA211  | 22        |     |    |           | 16B         | 9    |       | K0114A | 01     | KMR14S   | 01   | 3      | TT3              | D1    |                     | 26A                |                    |        |
| 13993         |        | XA306     | 57  |    | XA207  | 15        |     |    |           | 16B         | 9    |       | TK280A | 01     | KMR28S   | 01   | 1      | TT3              | E3    |                     | 30B                |                    |        |
| 02368         |        | XA306     | 58  |    |        |           |     |    |           |             |      |       | GND    | 01     |          |      |        | TT3              |       |                     | 40B                |                    |        |
| 04506         |        | XA306     | 59  |    |        |           |     |    |           |             |      |       | K0128A | 02     | KMR28S   | 01   | 2      | TT3              | E3    |                     | 31B                |                    |        |
| 13992         |        | XA306     | 60  |    |        |           |     |    |           |             |      |       | TK270A | 02     | KMR27S   | 01   | 2      | TT3              | E2    |                     | 28A                |                    |        |
| 04300         |        | XA306     | 61  |    |        |           |     |    |           |             |      |       | KMR28R | 02     | KMR28S   | 01   | 3      | TT3              | E3    |                     | 32B                |                    |        |
| 04293         |        | XA306     | 62  |    | XA307  | 55        |     |    |           | 16B         | 9    |       | KMR27R | 01     | KMR27S   | 01   | 3      | TT3              | E2    |                     | 29A                |                    |        |
| 04304         |        | XA306     | 63  |    |        |           |     |    |           |             |      |       | KMR28S | 04     | KMR28S   | 00   | 1      | TT3              | E3    |                     | 33B                | MONITOR REG BIT    |        |
| 04292         |        | XA306     | 64  |    |        |           |     |    |           |             |      |       | KMR26S | 04     | KMR26S   | 00   | 1      | TT3              | E1    |                     | 30A                | MONITOR REG BIT    |        |
| 04510         |        | XA306     | 65  |    |        |           |     |    |           |             |      |       | K0130A | 02     | KMR30S   | 01   | 1      | TT3              | F2    |                     | 34B                |                    |        |
| 04287         |        | XA306     | 66  |    | XA307  | 64        |     |    |           | 16B         | 9    |       | KMR26R | 01     | KMR26S   | 01   | 1      | TT3              | E1    |                     | 31A                |                    |        |
| 02369         |        | XA306     | 67  |    |        |           |     |    |           |             |      |       | GND    | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 04502         |        | XA306     | 68  |    |        |           |     |    |           |             |      |       | K0126A | 02     | KMR26S   | 01   | 2      | TT3              | E1    |                     | 32A                |                    |        |
| 14007         |        | XA306     | 69  |    |        |           |     |    |           |             |      |       | TK310A | 02     | KMR31S   | 01   | 1      | TT3              | F3    |                     | 35A                |                    |        |
| 13989         |        | XA306     | 70  |    | XA207  | 01        |     |    |           | 16B         | 9    |       | TK260A | 01     | KMR26S   | 01   | 3      | TT3              | E1    |                     | 33A                |                    |        |
| 14004         |        | XA306     | 71  |    | XA207  | 14        |     |    |           | 16B         | 9    |       | TK300A | 01     | KMR30S   | 01   | 2      | TT3              | F2    |                     | 36A                |                    |        |
| 04311         |        | XA306     | 72  |    | XA307  | 74        |     |    |           | 16B         | 9    |       | KMR30R | 01     | KMR30S   | 01   | 3      | TT3              | F2    |                     | 34A                |                    |        |
| 04309         |        | XA306     | 73  |    | XA307  | 79        |     |    |           | 16B         | 9    |       | KMR29S | 03     | KMR29S   | 00   | 1      | TT3              | F1    |                     | 36B                | MONITOR REG BIT    |        |
| 04316         |        | XA306     | 74  |    |        |           |     |    |           |             |      |       | KMR30S | 04     | KMR30S   | 00   | 1      | TT3              | F2    |                     | 35B                | MONITOR REG BIT    |        |
| 04305         |        | XA306     | 75  |    | XA307  | 73        |     |    |           | 16B         | 9    |       | KMR29R | 01     | KMR29S   | 01   | 1      | TT3              | F1    |                     | 37B                |                    |        |

CONNECTOR (XA306) CONTINUED ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA306  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 185

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQU. TION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |                     |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|---------|--------|-----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|---------------------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |         |        |           |      |        |                  |       |                     |                    |                    |        |                     |
| 04511         |        | XA306     | 76                              |      |        | XA210     | 45  |      |             |      |       |       | K0131A  | 01     | KMR31S    | 01   | 2      | TT3              | F3    |                     | 37A                |                    |        |                     |
| 13996         |        | XA306     | 77                              |      |        |           |     |      |             |      |       |       | TK290A  | 02     | KMR29S    | 01   | 2      | TT3              | F1    |                     |                    | 38B                |        |                     |
| 04318         |        | XA306     | 78                              |      |        |           |     |      |             |      |       |       | KMR31R  | 02     | KMR31S    | 01   | 3      | TT3              | F3    |                     |                    | 38A                |        |                     |
| 04507         |        | XA306     | 79                              |      |        | XA208     | 21  |      |             |      |       |       | K0129A  | 01     | KMR29S    | 01   | 3      | TT3              | F1    |                     |                    | 39B                |        |                     |
| 04319         |        | XA306     | 80                              |      |        | XA307     | 76  |      |             |      |       |       | KMR31S  | 01     | KMR31S    | 00   | 1      | TT3              | F3    |                     |                    | 39A                |        | MONITOR REG BIT     |
| 14306         |        | XA307     | 01                              |      |        | XA209     | 75  |      |             |      |       |       | TMRUMB4 | 22     | KMR04R    | 01   | 1      | TT3              | A2    |                     |                    | 02B                |        | MASTER RESET - F    |
| 02370         |        | XA307     | 02                              |      |        |           |     |      |             |      |       |       | GND     | 01     |           |      |        | TT3              |       |                     |                    | 01B                |        |                     |
| 04522         |        | XA307     | 03                              |      |        |           |     |      |             |      |       |       | K0204A  | 02     | KMR04R    | 01   | 2      | TT3              | A2    |                     |                    | 02A                |        |                     |
| 04137         |        | XA307     | 04                              |      |        |           |     |      |             |      |       |       | KMR03R  | 02     | KMR03R    | 00   | 1      | TT3              | A1    |                     |                    | 04A                |        | MONITOR REG BIT     |
| 04145         |        | XA307     | 05                              |      |        | XA306     | 07  |      |             |      |       |       | KMR04S  | 03     | KMR04R    | 01   | 3      | TT3              | A2    |                     |                    | 03B                |        |                     |
| 14305         |        | XA307     | 06                              |      |        | XA307     | 01  |      |             |      |       |       | TMRUMB4 | 21     | KMR03R    | 01   | 1      | TT3              | A1    |                     |                    | 05A                |        | MASTER RESET - F    |
| 04142         |        | XA307     | 07                              |      |        |           |     |      |             |      |       |       | KMR04R  | 02     | KMR04R    | 00   | 1      | TT3              | A2    |                     |                    | 03A                |        | MONITOR REG BIT     |
| 04519         |        | XA307     | 08                              |      |        | XA212     | 27  |      |             |      |       |       | K0203A  | 01     | KMR03R    | 01   | 2      | TT3              | A1    |                     |                    | 06A                |        |                     |
| 14304         |        | XA307     | 09                              |      |        | XA307     | 06  |      |             |      |       |       | TMRUMB4 | 20     | KMR05R    | 01   | 1      | TT3              | A3    |                     |                    | 04B                |        | MASTER RESET - F    |
| 04139         |        | XA307     | 10                              |      |        | XA407     | 80  |      |             |      |       |       | KMR03S  | 02     | KMR03R    | 01   | 3      | TT3              | A1    |                     |                    | 07A                |        |                     |
| 04523         |        | XA307     | 11                              |      |        | XA212     | 39  |      |             |      |       |       | K0205A  | 01     | KMR05R    | 01   | 2      | TT3              | A3    |                     |                    | 05B                |        |                     |
| 00476         |        | XA307     | 12                              |      |        |           |     |      |             |      |       |       | +5V     | 01     |           |      |        | TT3              |       |                     |                    |                    |        |                     |
| 04151         |        | XA307     | 13                              |      |        | XA306     | 15  |      |             |      |       |       | KMR05S  | 03     | KMR05R    | 01   | 3      | TT3              | A3    |                     |                    | 06B                |        |                     |
| 04532         |        | XA307     | 14                              |      |        |           |     |      |             |      |       |       | K0209A  | 02     | KMR09R    | 01   | 1      | TT3              | B2    |                     |                    | 09A                |        |                     |
| 04148         |        | XA307     | 15                              |      |        |           |     |      |             |      |       |       | KMR05R  | 02     | KMR05R    | 00   | 1      | TT3              | A3    |                     |                    | 07B                |        | MONITOR REG BIT     |
| 02371         |        | XA307     | 16                              |      |        |           |     |      |             |      |       |       | GND     | 01     |           |      |        | TT3              |       |                     |                    | 21B                |        |                     |
| 14303         |        | XA307     | 17                              |      |        | XA307     | 09  |      |             |      |       |       | TMRUMB4 | 19     | KMR09R    | 01   | 2      | TT3              | B2    |                     |                    | 08B                |        | MASTER RESET - F    |
| 04179         |        | XA307     | 18                              |      |        | XA306     | 19  |      |             |      |       |       | KMR09S  | 03     | KMR09R    | 01   | 3      | TT3              | B2    |                     |                    | 10A                |        |                     |
| 04175         |        | XA307     | 19                              |      |        | XA308     | 56  |      |             |      |       |       | KMR09R  | 02     | KMR09R    | 00   | 1      | TT3              | B2    |                     |                    | 09B                |        | MONITOR REG BIT     |
| 04168         |        | XA307     | 20                              |      |        |           |     |      |             |      |       |       | KMR08R  | 02     | KMR08R    | 00   | 1      | TT3              | B1    |                     |                    | 11A                |        | MONITOR REG BIT C09 |
| 14302         |        | XA307     | 21                              |      |        | XA307     | 17  |      |             |      |       |       | TMRUMB4 | 18     | KMR10R    | 01   | 1      | TT3              | B3    |                     |                    | 10B                |        | MASTER RESET - F    |
| 14301         |        | XA307     | 22                              |      |        | XA307     | 21  |      |             |      |       |       | TMRUMB4 | 17     | KMR08R    | 01   | 1      | TT3              | B1    |                     |                    | 12A                |        | MASTER RESET - F    |
| 04184         |        | XA307     | 23                              |      |        | XA306     | 27  |      |             |      |       |       | KMR10S  | 02     | KMR10R    | 01   | 2      | TT3              | B3    |                     |                    | 11B                |        |                     |
| 04529         |        | XA307     | 24                              |      |        | XA212     | 60  |      |             |      |       |       | K0208A  | 01     | KMR08R    | 01   | 2      | TT3              | B1    |                     |                    | 13A                |        |                     |
| 04533         |        | XA307     | 25                              |      |        | XA212     | 72  |      |             |      |       |       | K0210A  | 01     | KMR10R    | 01   | 3      | TT3              | B3    |                     |                    | 12B                |        |                     |
| 04172         |        | XA307     | 26                              |      |        | XA306     | 20  |      |             |      |       |       | KMR08S  | 03     | KMR08R    | 01   | 3      | TT3              | B1    |                     |                    | 14A                |        |                     |
| 04182         |        | XA307     | 27                              |      |        |           |     |      |             |      |       |       | KMR10R  | 02     | KMR10R    | 00   | 1      | TT3              | B3    |                     |                    | 13B                |        | MONITOR REG BIT     |
| 00477         |        | XA307     | 28                              |      |        |           |     |      |             |      |       |       | +5V     | 01     |           |      |        | TT3              |       |                     |                    |                    |        |                     |
| 04537         |        | XA307     | 29                              |      |        | XA211     | 01  |      |             |      |       |       | K0212A  | 01     | KMR12R    | 01   | 1      | TT3              | C2    |                     |                    | 14B                |        |                     |
| 04198         |        | XA307     | 30                              |      |        | XA233     | 40  |      |             |      |       |       | KMR12S  | 02     | KMR12R    | 01   | 2      | TT3              | C2    |                     |                    | 15A                |        |                     |
| 04194         |        | XA307     | 31                              |      |        | XA216     | 64  |      |             |      |       |       | KMR12R  | 02     | KMR12R    | 00   | 1      | TT3              | C2    |                     |                    | 15B                |        | MONITOR REG BIT     |
| 02372         |        | XA307     | 32                              |      |        |           |     |      |             |      |       |       | GND     | 01     |           |      |        | TT3              |       |                     |                    | 27A                |        |                     |
| 14298         |        | XA307     | 33                              |      |        | XA307     | 34  |      |             |      |       |       | TMRUMB4 | 14     | KMR13R    | 01   | 1      | TT3              | C3    |                     |                    | 16B                |        | MASTER RESET - F    |
| 14299         |        | XA307     | 34                              |      |        | XA307     | 38  |      |             |      |       |       | TMRUMB4 | 15     | KMR12R    | 01   | 3      | TT3              | C2    |                     |                    | 16A                |        | MASTER RESET - F    |
| 04205         |        | XA307     | 35                              |      |        | XA306     | 39  |      |             |      |       |       | KMR13S  | 03     | KMR13R    | 01   | 2      | TT3              | C3    |                     |                    | 17B                |        |                     |
| 04188         |        | XA307     | 36                              |      |        | XA306     | 38  |      |             |      |       |       | KMR11R  | 03     | KMR11R    | 00   | 1      | TT3              | C1    |                     |                    | 17A                |        | MONITOR REG BIT     |
| 04540         |        | XA307     | 37                              |      |        |           |     |      |             |      |       |       | K0213A  | 02     | KMR13R    | 01   | 3      | TT3              | C3    |                     |                    | 18B                |        |                     |
| 14300         |        | XA307     | 38                              |      |        | XA307     | 22  |      |             |      |       |       | TMRUMB4 | 16     | KMR11R    | 01   | 1      | TT3              | C1    |                     |                    | 18A                |        | MASTER RESET - F    |
| 04201         |        | XA307     | 39                              |      |        | XA306     | 33  |      |             |      |       |       | KMR13R  | 02     | KMR13R    | 00   | 1      | TT3              | C3    |                     |                    | 19B                |        | MONITOR REG BIT     |
| 04536         |        | XA307     | 40                              |      |        |           |     |      |             |      |       |       | K0211A  | 02     | KMR11R    | 01   | 2      | TT3              | C1    |                     |                    | 19A                |        |                     |
| 04544         |        | XA307     | 41                              |      |        |           |     |      |             |      |       |       | K0215A  | 02     | KMR15R    | 01   | 1      | TT3              | D2    |                     |                    | 22B                |        |                     |
| 04192         |        | XA307     | 42                              |      |        |           |     |      |             |      |       |       | KMR11S  | 03     | KMR11R    | 01   | 3      | TT3              | C1    |                     |                    | 20A                |        |                     |
| 04214         |        | XA307     | 43                              |      |        | XA306     | 48  |      |             |      |       |       | KMR15R  | 01     | KMR15R    | 00   | 1      | TT3              | D2    |                     |                    | 23B                |        | MONITOR REG BIT     |
| CONNECTOR     |        | XA307     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |         |        |           |      |        |                  |       |                     |                    |                    |        |                     |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA307  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 186

| RECORD NUMBER                                  | FROM   |           |     |   | TO     |           |     |   | WIRE        |      |       |       | SFC INST | MISC    | SIGNAL | SFC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS ANCHOR | SIGNAL DESCRIPTION | ECO NO |
|--|--------|-----------|-----|---|--------|-----------|-----|---|-------------|------|-------|-------|----------|---------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|  | PREFIX | CONNECTOR | PIN | 2 | PREFIX | CONNECTOR | PIN | 2 | MULTI GROUP | CODE | COLOR | IDENT |          |         |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 02373  | XA307  |           | 44  |   |        |           |     |   |             |      |       |       |          | GND     | 01     |        |          |      | TT3    |                  |       | 40A                 |                    |                    |        |
| 14297  | XA307  |           | 45  |   | XA307  |           | 33  |   |             | 16B  | 9     |       |          | TMRUMB4 | 13     | KMR25R | 01       | 1    | TT3    | D3               |       | 24B                 | MASTER RESET - F   |                    |        |
| 14296  | XA307  |           | 46  |   | XA307  |           | 45  |   |             | 16B  | 9     |       |          | TMRUMB4 | 12     | KMR15R | 01       | 2    | TT3    | D2               |       | 21A                 | MASTER RESET - F   |                    |        |
| 04284  | XA307  |           | 47  |   | XA118  |           | 54  |   |             | 16B  | 9     |       |          | KMR25S  | 02     | KMR25R | 01       | 2    | TT3    | D3               |       | 25B                 |                    |                    |        |
| 04218  | XA307  |           | 48  |   | XA117  |           | 70  |   |             | 16B  | 9     |       |          | KMR15S  | 02     | KMR15R | 01       | 3    | TT3    | D2               |       | 22A                 |                    |                    |        |
| 04563  | XA307  |           | 49  |   | XA210  |           | 15  |   |             | 16B  | 9     |       |          | KJ225A  | 01     | KMR25R | 01       | 3    | TT3    | D3               |       | 26B                 |                    |                    |        |
| 04208  | XA307  |           | 50  |   | XA306  |           | 54  |   |             | 16B  | 9     |       |          | KMR14R  | 02     | KMR14R | 00       | 1    | TT3    | D1               |       | 23A                 | MONITOR REG BIT    |                    |        |
| 04281  | XA307  |           | 51  |   | XA306  |           | 49  |   |             | 16B  | 9     |       |          | KMR25R  | 01     | KMR25R | 00       | 1    | TT3    | D3               |       | 27B                 | MONITOR REG BIT    |                    |        |
| 14295  | XA307  |           | 52  |   | XA307  |           | 46  |   |             | 16B  | 9     |       |          | TMRUMB4 | 11     | KMR14R | 01       | 1    | TT3    | D1               |       | 24A                 | MASTER RESET - F   |                    |        |
| 04567  | XA307  |           | 53  |   | XA210  |           | 27  |   |             | 16B  | 9     |       |          | KJ227A  | 01     | KMR27R | 01       | 1    | TT3    | E2               |       | 28B                 |                    |                    |        |
| 04541  | XA307  |           | 54  |   | XA211  |           | 14  |   |             | 16B  | 9     |       |          | KJ214A  | 01     | KMR14R | 01       | 2    | TT3    | D1               |       | 29A                 |                    |                    |        |
| 04294  | XA307  |           | 55  |   |        |           |     |   |             |      |       |       |          | KMR27R  | 02     | KMR27R | 00       | 1    | TT3    | E2               |       | 29B                 | MONITOR REG BIT    |                    |        |
| 04213  | XA307  |           | 56  |   |        |           |     |   |             |      |       |       |          | KMR14S  | 04     | KMR14R | 01       | 3    | TT3    | D1               |       | 26A                 |                    |                    |        |
| 14294  | XA307  |           | 57  |   | XA307  |           | 52  |   |             | 16B  | 9     |       |          | TMRUMB4 | 10     | KMR28R | 01       | 1    | TT3    | E3               |       | 30B                 | MASTER RESET - F   |                    |        |
| 02374  | XA307  |           | 58  |   |        |           |     |   |             |      |       |       |          | GND     | 01     |        |          |      | TT3    |                  |       | 40B                 |                    |                    |        |
| 04303  | XA307  |           | 59  |   | XA306  |           | 63  |   |             | 16B  | 9     |       |          | KMR28S  | 03     | KMR28R | 01       | 2    | TT3    | E3               |       | 31B                 |                    |                    |        |
| 14293  | XA307  |           | 60  |   | XA307  |           | 57  |   |             | 16B  | 9     |       |          | TMRUMB4 | 09     | KMR27R | 01       | 2    | TT3    | E2               |       | 28A                 | MASTER RESET - F   |                    |        |
| 04570  | XA307  |           | 61  |   |        |           |     |   |             |      |       |       |          | KJ228A  | 02     | KMR28R | 01       | 3    | TT3    | E3               |       | 32B                 |                    |                    |        |
| 04296  | XA307  |           | 62  |   | XA232  |           | 41  |   |             | 16B  | 9     |       |          | KMR27S  | 02     | KMR27R | 01       | 3    | TT3    | E2               |       | 29A                 |                    |                    |        |
| 04299  | XA307  |           | 63  |   | XA306  |           | 61  |   |             | 16B  | 9     |       |          | KMR28R  | 01     | KMR28R | 00       | 1    | TT3    | E3               |       | 33B                 | MONITOR REG BIT    |                    |        |
| 04288  | XA307  |           | 64  |   |        |           |     |   |             |      |       |       |          | KMR26R  | 02     | KMR26R | 00       | 1    | TT3    | E1               |       | 30A                 | MONITOR REG BIT    |                    |        |
| 04574  | XA307  |           | 65  |   |        |           |     |   |             |      |       |       |          | KJ230A  | 02     | KMR30R | 01       | 1    | TT3    | F2               |       | 34B                 |                    |                    |        |
| 14292  | XA307  |           | 66  |   | XA307  |           | 60  |   |             | 16B  | 9     |       |          | TMRUMB4 | 08     | KMR26R | 01       | 1    | TT3    | E1               |       | 31A                 | MASTER RESET - F   |                    |        |
| 02375  | XA307  |           | 67  |   |        |           |     |   |             |      |       |       |          | GND     | 01     |        |          |      | TT3    |                  |       |                     |                    |                    |        |
| 04566  | XA307  |           | 68  |   |        |           |     |   |             |      |       |       |          | KJ226A  | 02     | KMR26R | 01       | 2    | TT3    | E1               |       | 32A                 |                    |                    |        |
| 14290  | XA307  |           | 69  |   | XA307  |           | 72  |   |             | 16B  | 9     |       |          | TMRUMB4 | 06     | KMR31R | 01       | 1    | TT3    | F3               |       | 35A                 | MASTER RESET - F   |                    |        |
| 04291  | XA307  |           | 70  |   | XA306  |           | 64  |   |             | 16B  | 9     |       |          | KMR26S  | 03     | KMR26R | 01       | 3    | TT3    | E1               |       | 33A                 |                    |                    |        |
| 04315  | XA307  |           | 71  |   | XA306  |           | 74  |   |             | 16B  | 9     |       |          | KMR30S  | 03     | KMR30R | 01       | 2    | TT3    | F2               |       | 36A                 |                    |                    |        |
| 14291  | XA307  |           | 72  |   | XA307  |           | 66  |   |             | 16B  | 9     |       |          | TMRUMB4 | 07     | KMR30R | 01       | 3    | TT3    | F2               |       | 34A                 | MASTER RESET - F   |                    |        |
| 04306  | XA307  |           | 73  |   |        |           |     |   |             |      |       |       |          | KMR29R  | 02     | KMR29R | 00       | 1    | TT3    | F1               |       | 36B                 | MONITOR REG BIT    |                    |        |
| 04312  | XA307  |           | 74  |   |        |           |     |   |             |      |       |       |          | KMR30R  | 02     | KMR30R | 00       | 1    | TT3    | F2               |       | 35B                 | MONITOR REG BIT    |                    |        |
| 04571  | XA307  |           | 75  |   | XA208  |           | 27  |   |             | 16B  | 9     |       |          | KJ229A  | 01     | KMR29R | 01       | 1    | TT3    | F1               |       | 37B                 |                    |                    |        |
| 04320  | XA307  |           | 76  |   | XA232  |           | 65  |   |             | 16B  | 9     |       |          | KMR31S  | 02     | KMR31R | 01       | 2    | TT3    | F3               |       | 37A                 |                    |                    |        |
| 14289  | XA307  |           | 77  |   | XA307  |           | 69  |   |             | 16B  | 9     |       |          | TMRUMB4 | 05     | KMR29R | 01       | 2    | TT3    | F1               |       | 38B                 | MASTER RESET - F   |                    |        |
| 04575  | XA307  |           | 78  |   | XA210  |           | 51  |   |             | 16B  | 9     |       |          | KJ231A  | 01     | KMR31R | 01       | 3    | TT3    | F3               |       | 38A                 |                    |                    |        |
| 04310  | XA307  |           | 79  |   |        |           |     |   |             |      |       |       |          | KMR29S  | 04     | KMR29R | 01       | 3    | TT3    | F1               |       | 39B                 |                    |                    |        |
| 04317  | XA307  |           | 80  |   | XA306  |           | 78  |   |             | 16B  | 9     |       |          | KMR31R  | 01     | KMR31R | 00       | 1    | TT3    | F3               |       | 39A                 | MONITOR REG BIT    |                    |        |
| 13904  | XA308  |           | 01  |   |        |           |     |   |             |      |       |       |          | TKWXA0  | 11     | TCAM2A | 01       | 1    | TD4    | A2               |       | 02B                 |                    |                    |        |
| 02376  | XA308  |           | 02  |   |        |           |     |   |             |      |       |       |          | GND     | 01     |        |          |      | TD4    |                  |       | 01A                 |                    |                    |        |
| 01094  | XA308  |           | 03  |   |        |           |     |   |             |      |       |       |          | DNW     | 01     |        |          |      | TD4    |                  |       |                     |                    |                    |        |
| 09369  | XA308  |           | 04  |   | XA310  |           | 64  |   |             | 16B  | 9     |       |          | TCAC2A  | 01     | TCAM2A | 01       | 2    | TD4    | A2               |       | 04A                 |                    |                    |        |
| 09415  | XA308  |           | 05  |   |        |           |     |   |             |      |       |       |          | TCA120  | 02     | TCAM2A | 01       | 3    | TD4    | A2               |       | 03B                 |                    |                    |        |
| 09393  | XA308  |           | 06  |   | XA310  |           | 56  |   |             | 16B  | 9     |       |          | TCAC50  | 04     | TCAI2A | 01       | 1    | TD4    | A1               |       | 05A                 |                    |                    |        |
| 10288  | XA308  |           | 07  |   |        |           |     |   |             |      |       |       |          | TC13C0  | 11     | TCAM2A | 01       | 4    | TD4    | A2               |       | 03A                 |                    |                    |        |
| 09385  | XA308  |           | 08  |   | XA310  |           | 60  |   |             | 16B  | 9     |       |          | TCAC40  | 03     | TCAI2A | 01       | 2    | TD4    | A1               |       | 06A                 |                    |                    |        |
| 09435  | XA308  |           | 09  |   | XA324  |           | 39  |   |             | 16B  | 9     |       |          | TCAM2A  | 01     | TCAM2A | 00       | 1    | TD4    | A2               |       | 04B                 | CA MODIFY FOR GR   |                    |        |
| 09400  | XA308  |           | 10  |   | XA308  |           | 38  |   |             | 16B  | 9     |       |          | TCAC60  | 06     | TCAI2A | 01       | 3    | TD4    | A1               |       | 07A                 |                    |                    |        |
| 09411  | XA308  |           | 11  |   | XA218  |           | 68  |   |             | 16B  | 9     |       |          | TCAI2A  | 01     | TCAI2A | 00       | 1    | TD4    | A1               |       | 05B                 | CARRY GROUPS 3-6   |                    |        |
| CONNECTOR XA308 CONTINUED ON THE NEXT PAGE *** |        |           |     |   |        |           |     |   |             |      |       |       |          |         |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA308  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 187

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       | IPC INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|---------------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR |               |         |        |          |      |        |                  |       |                     |                    |                    |                  |
| 00478   |        | XA308     | 12  |        |           |     |             |      |       |               | +5V     | 01     |          |      |        |                  |       |                     |                    |                    |                  |
| 09378   |        | XA308     | 13  |        | XA216     | 77  |             |      |       |               | TCAC30  | 02     | TCAI2A   | 01   | 4      | TD4              | A1    |                     | 06B                |                    |                  |
| 10287   |        | XA308     | 14  |        | XA308     | 07  |             |      |       |               | TC13C0  | 10     | TCAM4A   | 01   | 1      | TD4              | B2    |                     | 09A                |                    |                  |
| 01095   |        | XA308     | 15  |        |           |     |             |      |       |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |                  |
| 02377   |        | XA308     | 16  |        |           |     |             |      |       |               | GND     | 01     |          |      |        | TD4              |       |                     | 20B                |                    |                  |
| 01096   |        | XA308     | 17  |        |           |     |             |      |       |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |                  |
| 09380   |        | XA308     | 18  |        | XA310     | 62  |             |      |       |               | TCAC4A  | 01     | TCAM4A   | 01   | 2      | TD4              | B2    |                     | 10A                |                    |                  |
| 09424   |        | XA308     | 19  |        | XA220     | 78  |             |      |       |               | TCAI40  | 01     | TCAM4A   | 01   | 3      | TD4              | B2    |                     | 09B                |                    |                  |
| 13903   |        | XA308     | 20  |        | XA308     | 01  |             |      |       |               | TKWXA0  | 10     | TCAM4A   | 01   | 4      | TD4              | B2    |                     | 11A                |                    |                  |
| 09447   |        | XA308     | 21  |        | XA324     | 50  |             |      |       |               | TCAM4A  | 01     | TCAM4A   | 00   | 1      | TD4              | B2    |                     | 10B                |                    | CA MODIFY FOR GR |
| 10286   |        | XA308     | 22  |        | XA308     | 14  |             |      |       |               | TC13C0  | 09     | TCAM3A   | 01   | 1      | TD4              | B1    |                     | 12A                |                    |                  |
| 09441   |        | XA308     | 23  |        | XA324     | 47  |             |      |       |               | TCAM3A  | 01     | TCAM3A   | 00   | 1      | TD4              | B1    |                     | 11B                |                    | CA MODIFY FOR GR |
| 09374   |        | XA308     | 24  |        | XA310     | 61  |             |      |       |               | TCAC3A  | 01     | TCAM3A   | 01   | 2      | TD4              | B1    |                     | 13A                |                    |                  |
| 09419   |        | XA308     | 25  |        | XA220     | 72  |             |      |       |               | TCAI30  | 01     | TCAM3A   | 01   | 3      | TD4              | B1    |                     | 12B                |                    |                  |
| 13902   |        | XA308     | 26  |        | XA308     | 20  |             |      |       |               | TKWXA0  | 09     | TCAM3A   | 01   | 4      | TD4              | B1    |                     | 14A                |                    |                  |
| 01097   |        | XA308     | 27  |        |           |     |             |      |       |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |                  |
| 00479   |        | XA308     | 28  |        |           |     |             |      |       |               | +5V     | 01     |          |      |        | TD4              |       |                     |                    |                    |                  |
| 01098   |        | XA308     | 29  |        |           |     |             |      |       |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |                  |
| 16807   |        | XA308     | 30  |        |           |     |             |      |       |               | TU293A  | 02     | TU29A0   | 01   | 1      | TD4              | C2    |                     | 15A                |                    |                  |
| 16803   |        | XA308     | 31  |        |           |     |             |      |       |               | TU291A  | 02     | TU29A0   | 01   | 2      | TD4              | C2    |                     | 15B                |                    |                  |
| 02378   |        | XA308     | 32  |        |           |     |             |      |       |               | GND     | 01     |          |      |        | TD4              |       |                     | 21B                |                    |                  |
| 16800   |        | XA308     | 33  |        | XA214     | 37  |             |      |       |               | TU29A0  | 01     | TU29A0   | 00   | 1      | TD4              | C2    |                     | 16B                |                    | UPDATE CA29 IF 3 |
| 16809   |        | XA308     | 34  |        |           |     |             |      |       |               | TU294A  | 02     | TU29A0   | 01   | 3      | TD4              | C2    |                     | 16A                |                    |                  |
| 09453   |        | XA308     | 35  |        | XA324     | 41  |             |      |       |               | TCAM5A  | 01     | TCAM5A   | 00   | 1      | TD4              | C1    |                     | 17B                |                    | CA MODIFY FOR GR |
| 16804   |        | XA308     | 36  |        | XA319     | 43  |             |      |       |               | TU292A  | 01     | TU29A0   | 01   | 4      | TD4              | C2    |                     | 17A                |                    |                  |
| 09387   |        | XA308     | 37  |        | XA310     | 55  |             |      |       |               | TCAC5A  | 01     | TCAM5A   | 01   | 1      | TD4              | C1    |                     | 18B                |                    |                  |
| 09401   |        | XA308     | 38  |        |           |     |             |      |       |               | TCAC60  | 07     | TCAM5A   | 01   | 2      | TD4              | C1    |                     | 18A                |                    |                  |
| 01099   |        | XA308     | 39  |        |           |     |             |      |       |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |                  |
| 10285   |        | XA308     | 40  |        | XA308     | 22  |             |      |       |               | TC13C0  | 08     | TCAM5A   | 01   | 3      | TD4              | C1    |                     | 19A                |                    |                  |
| 01100   |        | XA308     | 41  |        |           |     |             |      |       |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |                  |
| 13901   |        | XA308     | 42  |        | XA308     | 26  |             |      |       |               | TKWXA0  | 08     | TCAM5A   | 01   | 4      | TD4              | C1    |                     | 20A                |                    |                  |
| 04798   |        | XA308     | 43  |        | XA306     | 52  |             |      |       |               | RTCTOA  | 01     | TRCMR0   | 01   | 1      | TD4              | D2    |                     | 23B                |                    |                  |
| 02379   |        | XA308     | 44  |        |           |     |             |      |       |               | GND     | 01     |          |      |        | TD4              |       |                     | 27A                |                    |                  |
| 15217   |        | XA308     | 45  |        | XA406     | 20  |             |      |       |               | TRCMR0  | 01     | TRCMR0   | 00   | 1      | TD4              | D2    |                     | 24B                |                    |                  |
| 13969   |        | XA308     | 46  |        | XA306     | 41  |             |      |       |               | TK150A  | 02     | TRCMR0   | 01   | 2      | TD4              | D2    |                     | 21A                |                    |                  |
| 04331   |        | XA308     | 47  |        | XA213     | 21  |             |      |       |               | KSMALO  | 01     | KSMALO   | 00   | 1      | TD4              | D1    |                     | 25B                |                    | SYSTEM MALFUNCTI |
| 13495   |        | XA308     | 48  |        | XA412     | 01  |             |      |       |               | TIOIHA  | 03     | TRCMR0   | 01   | 3      | TD4              | D2    |                     | 22A                |                    |                  |
| 03814   |        | XA308     | 49  |        |           |     |             |      |       |               | KCMALA  | 02     | KSMALO   | 01   | 1      | TD4              | D1    |                     | 26B                |                    |                  |
| 03527   |        | XA308     | 50  |        | XA427     | 09  |             |      |       |               | JBSTAD4 | 03     | TRCMR0   | 01   | 4      | TD4              | D2    |                     | 23A                |                    |                  |
| 01101   |        | XA308     | 51  |        |           |     |             |      |       |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |                  |
| 04216   |        | XA308     | 52  |        |           |     |             |      |       |               | KMR15R  | 03     | KSMALO   | 01   | 2      | TD4              | D1    |                     | 24A                |                    |                  |
| 01102   |        | XA308     | 53  |        |           |     |             |      |       |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |                  |
| 04169   |        | XA308     | 54  |        | XA305     | 55  |             |      |       |               | SPI023  | 005    | KSMALO   | 01   | 3      | TD4              | D1    |                     | 25A                |                    | C09              |
| 13981   |        | XA308     | 55  |        | XA332     | 60  |             |      |       |               | TK221A  | 01     | KMR22S   | 01   | 1      | TD4              | E2    |                     | 29B                |                    |                  |
| 04176   |        | XA308     | 56  |        |           |     |             |      |       |               | KMR09R  | 03     | KSMALO   | 01   | 4      | TD4              | D1    |                     | 26A                |                    |                  |
| 04265   |        | XA308     | 57  |        | XA309     | 57  |             |      |       |               | KMR22S  | 01     | KMR22S   | 00   | 1      | TD4              | E2    |                     | 30B                |                    | MONITOR REG BIT  |
| 02380   |        | XA308     | 58  |        |           |     |             |      |       |               | GND     | 01     |          |      |        | TD4              |       |                     | 40A                |                    |                  |
| 04260   |        | XA308     | 59  |        | XA309     | 60  |             |      |       |               | KMR21S  | 01     | KMR21S   | 00   | 1      | TD4              | E1    |                     | 31B                |                    | MONITOR REG BIT  |
| 04264   |        | XA308     | 60  |        |           |     |             |      |       |               | KMR22R  | 02     | KMR22S   | 01   | 2      | TD4              | E2    |                     | 28A                |                    |                  |
| 13980   |        | XA308     | 61  |        |           |     |             |      |       |               | TK211A  | 02     | KMR21S   | 01   | 1      | TD4              | E1    |                     | 32B                |                    |                  |
| CONNECTOR XA308 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |               |         |        |          |      |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA308  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 188

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|---------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |         |          |        |        |                  |       |                     |                    |                    |        |
| 05521   |        | XA308     | 62  |        | XA308     | 70  |      |             | 16B  | 9     |        | SPI023  | 04       | KMR22S | 01     | 3                | TD4   | E2                  | 29A                |                    |        |
| 01103   |        | XA308     | 63  |        |           |     |      |             |      |       |        | DNW     | 01       |        |        |                  |       |                     |                    |                    |        |
| 04494   |        | XA308     | 64  |        |           |     |      |             |      |       |        | K0122A  | 02       | KMR22S | 01     | 4                | TD4   | E2                  | 30A                |                    |        |
| 01104   |        | XA308     | 65  |        |           |     |      |             |      |       |        | DNW     | 01       |        |        |                  |       |                     |                    |                    |        |
| 04259   |        | XA308     | 66  |        |           |     |      |             |      |       |        | KMR21R  | 02       | KMR21S | 01     | 2                | TD4   | E1                  | 31A                |                    |        |
| 02381   |        | XA308     | 67  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  |       |                     | 40B                |                    |        |
| 04491   |        | XA308     | 68  |        | XA211     | 57  |      |             | 16B  | 9     |        | K0121A  | 01       | KMR21S | 01     | 3                | TD4   | E1                  | 32A                |                    |        |
| 04277   |        | XA308     | 69  |        | XA309     | 72  |      |             | 16B  | 9     |        | KMR24S  | 01       | KMR24S | 00     | 1                | TD4   | F2                  | 35A                | MONITOR REG BIT    |        |
| 05522   |        | XA308     | 70  |        | XA308     | 74  |      |             | 16B  | 9     |        | SPI023  | 05       | KMR21S | 01     | 4                | TD4   | E1                  | 33A                |                    |        |
| 04276   |        | XA308     | 71  |        |           |     |      |             |      |       |        | KMR24R  | 02       | KMR24S | 01     | 1                | TD4   | F2                  | 36A                |                    |        |
| 13985   |        | XA308     | 72  |        | XA332     | 63  |      |             | 16B  | 9     |        | TK241A  | 01       | KMR24S | 01     | 2                | TD4   | F2                  | 34A                |                    |        |
| 04498   |        | XA308     | 73  |        |           |     |      |             |      |       |        | K0124A  | 02       | KMR24S | 01     | 3                | TD4   | F2                  | 36B                |                    |        |
| 05523   |        | XA308     | 74  |        | XA313     | 77  |      |             | 16B  | 9     |        | SPI023  | 06       | KMR24S | 01     | 4                | TD4   | F2                  | 35B                |                    |        |
| 04270   |        | XA308     | 75  |        |           |     |      |             |      |       |        | KMR23R  | 02       | KMR23S | 01     | 1                | TD4   | F1                  | 37B                |                    |        |
| 04273   |        | XA308     | 76  |        | XA309     | 79  |      |             | 16B  | 9     |        | KMR23S  | 03       | KMR23S | 00     | 1                | TD4   | F1                  | 37A                | MONITOR REG BIT    |        |
| 13984   |        | XA308     | 77  |        |           |     |      |             |      |       |        | TK231A  | 02       | KMR23S | 01     | 2                | TD4   | F1                  | 38B                |                    |        |
| 04495   |        | XA308     | 78  |        | XA211     | 69  |      |             | 16B  | 9     |        | K0123A  | 01       | KMR23S | 01     | 3                | TD4   | F1                  | 38A                |                    |        |
| 05520   |        | XA308     | 79  |        | XA308     | 62  |      |             | 16B  | 9     |        | SPI023  | 03       | KMR23S | 01     | 4                | TD4   | F1                  | 39B                |                    |        |
| 01105   |        | XA308     | 80  |        |           |     |      |             |      |       |        | DNW     | 01       |        |        |                  |       |                     |                    |                    |        |
| 08203   |        | XA309     | 01  |        | XA309     | 21  |      |             | 16B  | 9     |        | TACP00  | 01       | TAVROA | 01     | 1                | TT3   | A2                  | 02B                |                    |        |
| 02382   |        | XA309     | 02  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  |       |                     | 01B                |                    |        |
| 08344   |        | XA309     | 03  |        | XA312     | 09  |      |             | 16B  | 9     |        | TAC00V1 | 01       | TAVROA | 01     | 2                | TT3   | A2                  | 02A                |                    |        |
| 08430   |        | XA309     | 04  |        | XA310     | 47  |      |             | 16B  | 9     |        | TAVE1A  | 01       | TAVE1A | 00     | 1                | TT3   | A1                  | 04A                | TAVEB SET, LEAVE   |        |
| 15899   |        | XA309     | 05  |        | XA309     | 13  |      |             | 16B  | 9     |        | TS05C0  | 01       | TAVROA | 01     | 3                | TT3   | A2                  | 03B                |                    |        |
| 16261   |        | XA309     | 06  |        | XA346     | 33  |      |             | 16B  | 9     |        | TS191A  | 01       | TAVE1A | 01     | 1                | TT3   | A1                  | 05A                |                    |        |
| 08433   |        | XA309     | 07  |        |           |     |      |             |      |       |        | TAVROA  | 02       | TAVROA | 00     | 1                | TT3   | A2                  | 03A                | READ ACC VIL PAG   |        |
| 08420   |        | XA309     | 08  |        | XA332     | 10  |      |             | 16B  | 9     |        | TAVEBQ  | 02       | TAVE1A | 01     | 2                | TT3   | A1                  | 06A                |                    |        |
| 08355   |        | XA309     | 09  |        | XA312     | 33  |      |             | 16B  | 9     |        | TAC10V1 | 01       | TAVR1A | 01     | 1                | TT3   | A3                  | 04B                |                    |        |
| 15739   |        | XA309     | 10  |        | XA339     | 21  |      |             | 16B  | 9     |        | TS00BP  | 04       | TAVE1A | 01     | 3                | TT3   | A1                  | 07A                |                    |        |
| 08208   |        | XA309     | 11  |        | XA309     | 38  |      |             | 16B  | 9     |        | TACP10  | 01       | TAVR1A | 01     | 2                | TT3   | A3                  | 05B                |                    |        |
| 00480   |        | XA309     | 12  |        |           |     |      |             |      |       |        | +5V     | 01       |        |        |                  |       |                     |                    |                    |        |
| 15900   |        | XA309     | 13  |        | XA309     | 14  |      |             | 16B  | 9     |        | TS05C0  | 02       | TAVR1A | 01     | 3                | TT3   | A3                  | 06B                |                    |        |
| 15901   |        | XA309     | 14  |        | XA309     | 26  |      |             | 16B  | 9     |        | TS05C0  | 03       | TAVR3A | 01     | 1                | TT3   | B2                  | 09A                |                    |        |
| 08434   |        | XA309     | 15  |        | XA215     | 74  |      |             | 16B  | 9     |        | TAVR1A  | 01       | TAVR1A | 00     | 1                | TT3   | A3                  | 07B                | READ ACC VIL PAG   |        |
| 02383   |        | XA309     | 16  |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  |       |                     | 21B                |                    |        |
| 08375   |        | XA309     | 17  |        | XA312     | 69  |      |             | 16B  | 9     |        | TAC30V1 | 02       | TAVR3A | 01     | 2                | TT3   | B2                  | 08B                |                    |        |
| 08218   |        | XA309     | 18  |        | XA309     | 33  |      |             | 16B  | 9     |        | TACP30  | 01       | TAVR3A | 01     | 3                | TT3   | B2                  | 10A                |                    |        |
| 08438   |        | XA309     | 19  |        | XA215     | 77  |      |             | 16B  | 9     |        | TAVR3A  | 01       | TAVR3A | 00     | 1                | TT3   | B2                  | 09B                | READ ACC VIL PAG   |        |
| 08437   |        | XA309     | 20  |        |           |     |      |             |      |       |        | TAVR2A  | 02       | TAVR2A | 00     | 1                | TT3   | B1                  | 11A                | READ ACC VIL PAG   |        |
| 08204   |        | XA309     | 21  |        | XA310     | 57  |      |             | 16B  | 9     |        | TACP00  | 02       | TAVW0A | 01     | 1                | TT3   | B3                  | 10B                |                    |        |
| 08365   |        | XA309     | 22  |        | XA312     | 45  |      |             | 16B  | 9     |        | TAC20V1 | 02       | TAVR2A | 01     | 1                | TT3   | B1                  | 12A                |                    |        |
| 08349   |        | XA309     | 23  |        | XA311     | 09  |      |             | 16B  | 9     |        | TAC01V1 | 01       | TAVW0A | 01     | 2                | TT3   | B3                  | 11B                |                    |        |
| 08213   |        | XA309     | 24  |        | XA309     | 29  |      |             | 16B  | 9     |        | TACP20  | 01       | TAVR2A | 01     | 2                | TT3   | B1                  | 13A                |                    |        |
| 16100   |        | XA309     | 25  |        | XA309     | 35  |      |             | 16B  | 9     |        | TS13C0  | 01       | TAVW0A | 01     | 3                | TT3   | B3                  | 12B                |                    |        |
| 15902   |        | XA309     | 26  |        | XA342     | 60  |      |             | 16B  | 9     |        | TS05C0  | 04       | TAVR2A | 01     | 3                | TT3   | B1                  | 14A                |                    |        |
| 08441   |        | XA309     | 27  |        |           |     |      |             |      |       |        | TAVW0A  | 02       | TAVW0A | 00     | 1                | TT3   | B3                  | 13B                | WRITE ACC VIL PA   |        |
| 00481   |        | XA309     | 28  |        |           |     |      |             |      |       |        | +5V     | 01       |        |        |                  |       |                     |                    |                    |        |
| 08214   |        | XA309     | 29  |        | XA310     | 80  |      |             | 16B  | 9     |        | TACP20  | 02       | TAVW2A | 01     | 1                | TT3   | C2                  | 14B                |                    |        |
| CONNECTOR (XA309) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |         |          |        |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA309  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 189

| RECORD NUMBER                                   | FROM   |           |     |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQU. TION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|--------|-----------|-----|----|-------------|------|-------|-------|---------|--------|-----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH | PREFIX | CONNECTOR | PIN | SH | MULTI GROUP | CODE | COLOR | IDENT |         |        |           |      |      |                  |       |                     |                    |                    |        |
| 08370   |        | XA309     | 30  |    | XA311  | 45        |     |    |             | 16B  | 9     |       | TAC21V1 | 02     | TAVW2A    | 01   | 2    | TT3              | C2    | 15A                 | WRITE ACC VIL PA   |                    |        |
| 08445   |        | XA309     | 31  |    |        |           |     |    |             |      |       |       | TAVW2A  | 02     | TAVW2A    | 00   | 1    | TT3              | C2    | 15B                 |                    |                    |        |
| 02384   |        | XA309     | 32  |    |        |           |     |    |             |      |       |       | GND     | 01     |           |      |      | TT3              |       | 27A                 |                    |                    |        |
| 08219   |        | XA309     | 33  |    | XA310  | 71        |     |    |             | 16B  | 9     |       | TACP30  | 02     | TAVW3A    | 01   | 1    | TT3              | C3    | 16B                 |                    |                    |        |
| 16102   |        | XA309     | 34  |    | XA309  | 42        |     |    |             | 16B  | 9     |       | TS13C0  | 03     | TAVW2A    | 01   | 3    | TT3              | C2    | 16A                 |                    |                    |        |
| 16101   |        | XA309     | 35  |    | XA309  | 34        |     |    |             | 16B  | 9     |       | TS13C0  | 02     | TAVW3A    | 01   | 2    | TT3              | C3    | 17B                 |                    |                    |        |
| 08442   |        | XA309     | 36  |    | XA215  | 72        |     |    |             | 16B  | 9     |       | TAVW1A  | 01     | TAVW1A    | 00   | 1    | TT3              | C1    | 17A                 | WRITE ACC VIL PA   |                    |        |
| 08380   |        | XA309     | 37  |    | XA311  | 69        |     |    |             | 16B  | 9     |       | TAC31V1 | 02     | TAVW3A    | 01   | 3    | TT3              | C3    | 18B                 |                    |                    |        |
| 08209   |        | XA309     | 38  |    | XA310  | 68        |     |    |             | 16B  | 9     |       | TACP10  | 02     | TAVW1A    | 01   | 1    | TT3              | C1    | 18A                 |                    |                    |        |
| 08446   |        | XA309     | 39  |    | XA215  | 71        |     |    |             | 16B  | 9     |       | TAVW3A  | 01     | TAVW3A    | 00   | 1    | TT3              | C3    | 19B                 | WRITE ACC VIL PA   |                    |        |
| 08359   |        | XA309     | 40  |    | XA311  | 33        |     |    |             | 16B  | 9     |       | TAC11V1 | 01     | TAVW1A    | 01   | 2    | TT3              | C1    | 19A                 |                    |                    |        |
| 10449   |        | XA309     | 41  |    | XA309  | 66        |     |    |             | 16B  | 9     |       | TC23BQ  | 03     | TQBD1A    | 01   | 1    | TT3              | D2    | 22B                 |                    |                    |        |
| 16103   |        | XA309     | 42  |    | XA332  | 47        |     |    |             | 16B  | 9     |       | TS13C0  | 04     | TAVW1A    | 01   | 3    | TT3              | C1    | 20A                 |                    |                    |        |
| 14991   |        | XA309     | 43  |    | XA213  | 79        |     |    |             | 16B  | 9     |       | TQBD1A  | 01     | TQBD1A    | 00   | 1    | TT3              | D2    | 23B                 | Q BIT POST 01-A    |                    |        |
| 02385   |        | XA309     | 44  |    |        |           |     |    |             |      |       |       | GND     | 01     |           |      |      | TT3              |       | 40A                 |                    |                    |        |
| 10417   |        | XA309     | 45  |    |        |           |     |    |             |      |       |       | TC21BP  | 07     | TQBD2A    | 01   | 1    | TT3              | D3    | 24B                 |                    |                    |        |
| 10416   |        | XA309     | 46  |    | XA309  | 45        |     |    |             | 16B  | 9     |       | TC21BP  | 06     | TQBD1A    | 01   | 2    | TT3              | D2    | 21A                 |                    |                    |        |
| 10446   |        | XA309     | 47  |    |        |           |     |    |             |      |       |       | TC23BP  | 07     | TQBD2A    | 01   | 2    | TT3              | D3    | 25B                 |                    |                    |        |
| 10431   |        | XA309     | 48  |    | XA214  | 71        |     |    |             | 16B  | 9     |       | TC22BP  | 07     | TQBD1A    | 01   | 3    | TT3              | D2    | 22A                 |                    |                    |        |
| 10438   |        | XA309     | 49  |    | XA214  | 79        |     |    |             | 16B  | 9     |       | TC22BQ  | 06     | TQBD2A    | 01   | 3    | TT3              | D3    | 26B                 |                    |                    |        |
| 14985   |        | XA309     | 50  |    |        |           |     |    |             |      |       |       | TQBD0A  | 02     | TQBD0A    | 00   | 1    | TT3              | D1    | 23A                 | Q BIT POST 00-A    |                    |        |
| 14998   |        | XA309     | 51  |    | XA213  | 73        |     |    |             | 16B  | 9     |       | TQBD2A  | 01     | TQBD2A    | 00   | 1    | TT3              | D3    | 27B                 |                    | Q BIT POST 02-A    |        |
| 10415   |        | XA309     | 52  |    | XA309  | 46        |     |    |             | 16B  | 9     |       | TC21BP  | 05     | TQBD0A    | 01   | 1    | TT3              | D1    | 24A                 |                    |                    |        |
| 14285   |        | XA309     | 53  |    | XA309  | 59        |     |    |             | 16B  | 9     |       | TMRUMB4 | 01M    | KMR21R    | 01   | 1    | TT3              | E2    | 28B                 | MASTER RESET - F   |                    |        |
| 10430   |        | XA309     | 54  |    | XA309  | 48        |     |    |             | 16B  | 9     |       | TC22BP  | 06     | TQBD0A    | 01   | 2    | TT3              | D1    | 25A                 |                    |                    |        |
| 04258   |        | XA309     | 55  |    | XA308  | 66        |     |    |             | 16B  | 9     |       | KMR21R  | 01     | KMR21R    | 00   | 1    | TT3              | E2    | 29B                 | MONITOR REG BIT    |                    |        |
| 10445   |        | XA309     | 56  |    | XA309  | 47        |     |    |             | 16B  | 9     |       | TC23BP  | 06     | TQBD0A    | 01   | 3    | TT3              | D1    | 26A                 |                    |                    |        |
| 04266   |        | XA309     | 57  |    | XA117  | 49        |     |    |             | 16B  | 9     |       | KMR22S  | 02     | KMR22R    | 01   | 1    | TT3              | E3    | 30B                 |                    |                    |        |
| 02386   |        | XA309     | 58  |    |        |           |     |    |             |      |       |       | GND     | 01     |           |      |      | TT3              |       | 40B                 |                    |                    |        |
| 14286   |        | XA309     | 59  |    | XA309  | 65        |     |    |             | 16B  | 9     |       | TMRUMB4 | 02     | KMR22R    | 01   | 2    | TT3              | E3    | 31B                 | MASTER RESET - F   |                    |        |
| 04261   |        | XA309     | 60  |    | XA232  | 07        |     |    |             | 16B  | 9     |       | KMR21S  | 02     | KMR21R    | 01   | 2    | TT3              | E2    | 28A                 |                    |                    |        |
| 04558   |        | XA309     | 61  |    |        |           |     |    |             |      |       |       | K0222A  | 02     | KMR22R    | 01   | 3    | TT3              | E3    | 32B                 |                    |                    |        |
| 04555   |        | XA309     | 62  |    | XA211  | 63        |     |    |             | 16B  | 9     |       | K0221A  | 01     | KMR21R    | 01   | 3    | TT3              | E2    | 29A                 |                    |                    |        |
| 04263   |        | XA309     | 63  |    | XA308  | 60        |     |    |             | 16B  | 9     |       | KMR22R  | 01     | KMR22R    | 00   | 1    | TT3              | E3    | 33B                 | MONITOR REG BIT    |                    |        |
| 15005   |        | XA309     | 64  |    | XA213  | 69        |     |    |             | 16B  | 9     |       | TQBD3A  | 01     | TQBD3A    | 00   | 1    | TT3              | E1    | 30A                 |                    | Q BIT POST 03-A    |        |
| 14287   |        | XA309     | 65  |    | XA309  | 77        |     |    |             | 16B  | 9     |       | TMRUMB4 | 03     | KMR24R    | 01   | 1    | TT3              | F2    | 34B                 | MASTER RESET - F   |                    |        |
| 10450   |        | XA309     | 66  |    | XA314  | 73        |     |    |             | 16B  | 9     |       | TC23BQ  | 04     | TQBD3A    | 01   | 1    | TT3              | E1    | 31A                 |                    |                    |        |
| 02387   |        | XA309     | 67  |    |        |           |     |    |             |      |       |       | GND     | 01     |           |      |      | TT3              |       |                     |                    |                    |        |
| 10437   |        | XA309     | 68  |    | XA309  | 49        |     |    |             | 16B  | 9     |       | TC22BQ  | 05     | TQBD3A    | 01   | 2    | TT3              | E1    | 32A                 |                    |                    |        |
| 10527   |        | XA309     | 69  |    |        |           |     |    |             |      |       |       | TC30BP  | 06     | TU302A    | 01   | 1    | TT3              | F3    | 35A                 |                    |                    |        |
| 10414   |        | XA309     | 70  |    | XA309  | 52        |     |    |             | 16B  | 9     |       | TC21BP  | 04     | TQBD3A    | 01   | 3    | TT3              | E1    | 33A                 |                    |                    |        |
| 04562   |        | XA309     | 71  |    |        |           |     |    |             |      |       |       | K0224A  | 02     | KMR24R    | 01   | 2    | TT3              | F2    | 36A                 |                    |                    |        |
| 04278   |        | XA309     | 72  |    | XA117  | 54        |     |    |             | 16B  | 9     |       | KMR24S  | 02     | KMR24R    | 01   | 3    | TT3              | F2    | 34A                 |                    |                    |        |
| 04269   |        | XA309     | 73  |    | XA308  | 75        |     |    |             | 16B  | 9     |       | KMR23R  | 01     | KMR23R    | 00   | 1    | TT3              | F1    | 36B                 | MONITOR REG BIT    |                    |        |
| 04275   |        | XA309     | 74  |    | XA308  | 71        |     |    |             | 16B  | 9     |       | KMR24R  | 01     | KMR24R    | 00   | 1    | TT3              | F2    | 35B                 |                    | MONITOR REG BIT    |        |
| 04559   |        | XA309     | 75  |    | XA211  | 80        |     |    |             | 16B  | 9     |       | K0223A  | 01     | KMR23R    | 01   | 1    | TT3              | F1    | 37B                 |                    |                    |        |
| 10243   |        | XA309     | 76  |    |        |           |     |    |             |      |       |       | TC11C0  | 11     | TU302A    | 01   | 2    | TT3              | F3    | 37A                 |                    |                    |        |
| 14288   |        | XA309     | 77  |    | XA307  | 77        |     |    |             | 16B  | 9     |       | TMRUMB4 | 04     | KMR23R    | 01   | 2    | TT3              | F1    | 38B                 | MASTER RESET - F   |                    |        |
| 10556   |        | XA309     | 78  |    | XA322  | 78        |     |    |             | 16B  | 9     |       | TC31C0  | 01     | TU302A    | 01   | 3    | TT3              | F3    | 38A                 |                    |                    |        |
| 04274   |        | XA309     | 79  |    |        |           |     |    |             |      |       |       | KMR23S  | 04     | KMR23R    | 01   | 3    | TT3              | F1    | 39B                 |                    |                    |        |
| CONNECTOR XA309 CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |    |             |      |       |       |         |        |           |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA309  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 190

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |        |          |        |        |                  |       |                     |                    |                    |        |
| 16814   |        | XA309     | 80  |        | XA315     | 54  |      |             | 16B  | 9     |        | TU302A | 01       | TU302A | 00     | 1                | TT3   | F3                  | 39A                | UPDATE CA30 IF 3   |        |
| 08512   |        | XA310     | 01  |        |           |     |      |             |      |       |        | TAW410 | 02       | TAW410 | 00     | 1                | THI   | A4                  | 02B                | WRITE0 BIT1 PAGE   |        |
| 02388   |        | XA310     | 02  |        |           |     |      |             |      |       |        | GND    | 01       |        |        |                  | THI   |                     | 01A                |                    |        |
| 08480   |        | XA310     | 03  |        |           |     |      |             |      |       |        | TAW010 | 02       | TAW010 | 00     | 1                | THI   | A3                  | 03A                | WRITE1 BIT1 PAGE   |        |
| 08478   |        | XA310     | 04  |        |           |     |      |             |      |       |        | TAW01A | 02       | TAW010 | 01     | 1                | THI   | A3                  | 02A                |                    |        |
| 08510   |        | XA310     | 05  |        |           |     |      |             |      |       |        | TAW41A | 02       | TAW410 | 01     | 1                | THI   | A4                  | 03B                |                    |        |
| 08506   |        | XA310     | 06  |        |           |     |      |             |      |       |        | TAW40A | 02       | TAW400 | 01     | 1                | THI   | A2                  | 05A                |                    |        |
| 07893   |        | XA310     | 07  |        |           |     |      |             |      |       |        | SPO    | 01       |        | 00     | 1                | THI   | A5                  | 04B                |                    |        |
| 08508   |        | XA310     | 08  |        |           |     |      |             |      |       |        | TAW400 | 02       | TAW400 | 00     | 1                | THI   | A2                  | 04A                | WRITE0 BIT0 PAGE   |        |
| 05545   |        | XA310     | 09  |        | XA121     | 26  |      |             | 16B  | 9     |        | SPI323 | 28       |        | 01     | 1                | THI   | A5                  | 05B                |                    |        |
| 14320   |        | XA310     | 10  |        |           |     |      |             |      |       |        | TMR77A | 02       | TMR77A | 00     | 1                | THI   | A6                  | 06B                | S77 + MASTER RES   |        |
| 08473   |        | XA310     | 11  |        | XA316     | 06  |      |             | 16B  | 9     |        | TAW00A | 01       | TAW000 | 01     | 1                | THI   | A1                  | 07A                |                    |        |
| 00482   |        | XA310     | 12  |        |           |     |      |             |      |       |        | +5V    | 01       |        |        |                  | THI   |                     |                    |                    |        |
| 08476   |        | XA310     | 13  |        |           |     |      |             |      |       |        | TAW000 | 02       | TAW000 | 00     | 1                | THI   | A1                  | 06A                | WRITE1 BIT0 PAGE   |        |
| 08520   |        | XA310     | 14  |        |           |     |      |             |      |       |        | TAW510 | 02       | TAW519 | 00     | 1                | THI   | B4                  | 08B                | WRITE0 BIT1 PAGE   |        |
| 14321   |        | XA310     | 15  |        | XA207     | 57  |      |             | 16B  | 9     |        | TMR770 | 01       | TMR77A | 01     | 1                | THI   | A6                  | 07B                |                    |        |
| 02389   |        | XA310     | 16  |        |           |     |      |             |      |       |        | GND    | 01       |        |        |                  | THI   |                     | 20B                |                    |        |
| 08518   |        | XA310     | 17  |        |           |     |      |             |      |       |        | TAW51A | 02       | TAW510 | 01     | 1                | THI   | B4                  | 09B                |                    |        |
| 08488   |        | XA310     | 18  |        |           |     |      |             |      |       |        | TAW110 | 02       | TAW110 | 00     | 1                | THI   | B3                  | 09A                | WRITE1 BIT0 PAGE   |        |
| 16744   |        | XA310     | 19  |        |           |     |      |             |      |       |        | TU1410 | 02       | TU1410 | 00     | 1                | THI   | B5                  | 10B                | TC15.TC16 -0       |        |
| 08486   |        | XA310     | 20  |        |           |     |      |             |      |       |        | TAW11A | 02       | TAW110 | 01     | 1                | THI   | B3                  | 10A                |                    |        |
| 16740   |        | XA310     | 21  |        | XA314     | 21  |      |             | 16B  | 9     |        | TU141A | 01       | TU1410 | 01     | 1                | THI   | B5                  | 11B                |                    |        |
| 08482   |        | XA310     | 22  |        |           |     |      |             |      |       |        | TAW10A | 02       | TAW100 | 01     | 1                | THI   | B1                  | 14A                |                    |        |
| 08514   |        | XA310     | 23  |        |           |     |      |             |      |       |        | TAW50A | 02       | TAW500 | 01     | 1                | THI   | B2                  | 12A                |                    |        |
| 08484   |        | XA310     | 24  |        |           |     |      |             |      |       |        | TAW100 | 02       | TAW100 | 00     | 1                | THI   | B1                  | 13A                | WRITE1 BIT0 PAGE   |        |
| 08516   |        | XA310     | 25  |        |           |     |      |             |      |       |        | TAW500 | 02       | TAW500 | 00     | 1                | THI   | B2                  | 11A                | WRITE0 BIT0 PAGE   |        |
| 10322   |        | XA310     | 26  |        | XA322     | 24  |      |             | 16B  | 9     |        | TC15C0 | 01       | TC15C0 | 00     | 1                | THI   | B6                  | 12B                | TC BIT 15 UNLOAD   |        |
| 10308   |        | XA310     | 27  |        | XA314     | 36  |      |             | 16B  | 9     |        | TC15BP | 01       | TC15C0 | 01     | 1                | THI   | B6                  | 13B                |                    |        |
| 00483   |        | XA310     | 28  |        |           |     |      |             |      |       |        | +5V    | 01       |        |        |                  | THI   |                     |                    |                    |        |
| 08526   |        | XA310     | 29  |        |           |     |      |             |      |       |        | TAW61A | 02       | TAW610 | 01     | 1                | THI   | C4                  | 15B                |                    |        |
| 08528   |        | XA310     | 30  |        |           |     |      |             |      |       |        | TAW610 | 02       | TAW610 | 00     | 1                | THI   | C4                  | 14B                | WRITE0 BIT1 PAGE   |        |
| 16758   |        | XA310     | 31  |        |           |     |      |             |      |       |        | TU1710 | 03       | TU1710 | 00     | 1                | THI   | C5                  | 16B                | TC18.TC19 -0       |        |
| 02390   |        | XA310     | 32  |        |           |     |      |             |      |       |        | GND    | 01       |        |        |                  | THI   |                     | 21B                |                    |        |
| 16753   |        | XA310     | 33  |        | XA314     | 39  |      |             | 16B  | 9     |        | TU171A | 01       | TU1710 | 01     | 1                | THI   | C5                  | 17B                |                    |        |
| 08496   |        | XA310     | 34  |        |           |     |      |             |      |       |        | TAW210 | 02       | TAW210 | 00     | 1                | THI   | C3                  | 15A                | WRITE1 BIT1 PAGE   |        |
| 08522   |        | XA310     | 35  |        |           |     |      |             |      |       |        | TAW60A | 02       | TAW600 | 01     | 1                | THI   | C2                  | 18A                |                    |        |
| 08494   |        | XA310     | 36  |        |           |     |      |             |      |       |        | TAW21A | 02       | TAW210 | 01     | 1                | THI   | C3                  | 16A                |                    |        |
| 08524   |        | XA310     | 37  |        |           |     |      |             |      |       |        | TAW600 | 02       | TAW600 | 00     | 1                | THI   | C2                  | 17A                | WRITE0 BIT0 PAGE   |        |
| 08490   |        | XA310     | 38  |        |           |     |      |             |      |       |        | TAW20A | 02       | TAW200 | 01     | 1                | THI   | C1                  | 20A                |                    |        |
| 10332   |        | XA310     | 39  |        | XA314     | 31  |      |             | 16B  | 9     |        | TC16BP | 03       | TC16C0 | 01     | 1                | THI   | C6                  | 19B                |                    |        |
| 08492   |        | XA310     | 40  |        |           |     |      |             |      |       |        | TAW200 | 02       | TAW200 | 00     | 1                | THI   | C1                  | 19A                | WRITE1 BIT0 PAGE   |        |
| 08502   |        | XA310     | 41  |        |           |     |      |             |      |       |        | TAW31A | 02       | TAW310 | 01     | 1                | THI   | D4                  | 23B                |                    |        |
| 10345   |        | XA310     | 42  |        | XA322     | 61  |      |             | 16B  | 9     |        | TC16C0 | 01       | TC16C0 | 00     | 1                | THI   | C6                  | 18B                | TC BIT 16 UNLOAD   |        |
| 08536   |        | XA310     | 43  |        |           |     |      |             |      |       |        | TAW710 | 02       | TAW710 | 00     | 1                | THI   | D5                  | 24B                | WRITE0 BIT1 PAGE   |        |
| 02391   |        | XA310     | 44  |        |           |     |      |             |      |       |        | GND    | 01       |        |        |                  | THI   |                     | 27A                |                    |        |
| 08534   |        | XA310     | 45  |        |           |     |      |             |      |       |        | TAW71A | 02       | TAW710 | 01     | 1                | THI   | D5                  | 25B                |                    |        |
| 08504   |        | XA310     | 46  |        |           |     |      |             |      |       |        | TAW310 | 02       | TAW310 | 00     | 1                | THI   | D4                  | 22B                | WRITE1 BIT1 PAGE   |        |
| 08431   |        | XA310     | 47  |        |           |     |      |             |      |       |        | TAVE1A | 02       | TAVE00 | 01     | 1                | THI   | D2                  | 24A                |                    |        |
| CONNECTOR (XA310) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |        |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA310  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 191

| RECORD NUMBER                                     | FROM   |           |     |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CMT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|--------|-----------|-----|----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PL | PREFIX | CONNECTOR | PIN | PL | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 08532   |        | XA310     | 48  |    |        |           |     |    |             |      |       |       | TAW700  | 01     | TAW700   | 00   | 1      | THI              | D3    |                     | 21A                | WRITE0 BIT0 PAGE   |        |
| 08428   |        | XA310     | 49  |    | XA217  | 62        |     |    |             | 16B  | 9     |       | TAVE00  | 02     | TAVE00   | 00   | 1      | THI              | D2    |                     | 23A                | SET TAVEB          |        |
| 08530   |        | XA310     | 50  |    |        |           |     |    |             |      |       |       | TAW70A  | 02     | TAW700   | 01   | 1      | THI              | D3    |                     | 22A                |                    |        |
| 16769   |        | XA310     | 51  |    |        |           |     |    |             |      |       |       | TU201A  | 03     | TU2010   | 01   | 1      | THI              | D6    |                     | 27B                |                    |        |
| 08498   |        | XA310     | 52  |    |        |           |     |    |             |      |       |       | TAW30A  | 02     | TAW300   | 01   | 1      | THI              | D1    |                     | 26A                |                    |        |
| 16773   |        | XA310     | 53  |    |        |           |     |    |             |      |       |       | TU2010  | 04     | TU2010   | 00   | 1      | THI              | D6    |                     | 26B                | TC21.TC22-0        |        |
| 08500   |        | XA310     | 54  |    |        |           |     |    |             |      |       |       | TAW300  | 02     | TAW300   | 00   | 1      | THI              | D1    |                     | 29A                | WRITE1 BIT0 PAGE   |        |
| 09388   |        | XA310     | 55  |    | XA315  | 51        |     |    |             | 16B  | 9     |       | TCAC5A  | 02     | TCAC50   | 01   | 1      | THI              | E4    |                     | 29B                |                    |        |
| 09394   |        | XA310     | 56  |    |        |           |     |    |             |      |       |       | TCAC50  | 05     | TCAC50   | 00   | 1      | THI              | E4    |                     | 28B                | TC CARRY GP5 FOR   |        |
| 08205   |        | XA310     | 57  |    |        |           |     |    |             |      |       |       | TACP00  | 03     | TACP00   | 00   | 1      | THI              | E5    |                     | 30B                | PAGE 0             |        |
| 02392   |        | XA310     | 58  |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     | 40A                |                    |        |
| 08202   |        | XA310     | 59  |    |        |           |     |    |             |      |       |       | TACP0A  | 02     | TACP00   | 01   | 1      | THI              | E5    |                     | 31B                |                    |        |
| 09386   |        | XA310     | 60  |    |        |           |     |    |             |      |       |       | TCAC40  | 04     | TCAC40   | 00   | 1      | THI              | E3    |                     | 28A                | TC CARRY GP4 FOR   |        |
| 09375   |        | XA310     | 61  |    | XA320  | 60        |     |    |             | 16B  | 9     |       | TCAC3A  | 02     | TCAC30   | 01   | 1      | THI              | E2    |                     | 31A                |                    |        |
| 09381   |        | XA310     | 62  |    | XA315  | 43        |     |    |             | 16B  | 9     |       | TCAC4A  | 02     | TCAC40   | 01   | 1      | THI              | E3    |                     | 29A                |                    |        |
| 09377   |        | XA310     | 63  |    | XA308  | 13        |     |    |             | 16B  | 9     |       | TCAC30  | 01     | TCAC30   | 00   | 1      | THI              | E2    |                     | 30A                | TC CARRY GP3 FOR   |        |
| 09370   |        | XA310     | 64  |    | XA320  | 66        |     |    |             | 16B  | 9     |       | TCAC2A  | 02     | TCAC20   | 01   | 1      | THI              | E1    |                     | 33A                |                    |        |
| 08207   |        | XA310     | 65  |    |        |           |     |    |             |      |       |       | TACP1A  | 02     | TACP10   | 01   | 1      | THI              | E6    |                     | 33B                |                    |        |
| 09373   |        | XA310     | 66  |    |        |           |     |    |             |      |       |       | TCAC20  | 02     | TCAC20   | 00   | 1      | THI              | E1    |                     | 32A                | TC CARRY GP2 FOR   |        |
| 02393   |        | XA310     | 67  |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 08210   |        | XA310     | 68  |    |        |           |     |    |             |      |       |       | TACP10  | 03     | TACP10   | 00   | 1      | THI              | E6    |                     | 32B                | PAGE 1             |        |
| 13290   |        | XA310     | 69  |    | XA406  | 14        |     |    |             | 16B  | 9     |       | TICTAA  | 01     | TTSAMO   | 01   | 1      | THI              | F3    |                     | 35B                | TA TO CPU BUSS     |        |
| 16626   |        | XA310     | 70  |    | XA427  | 31        |     |    |             | 16B  | 9     |       | TTSAMO  | 01     | TTSAMO   | 00   | 1      | THI              | F3    |                     | 34B                | A REG TO CPU BUS   |        |
| 08220   |        | XA310     | 71  |    |        |           |     |    |             |      |       |       | TACP30  | 03     | TACP30   | 00   | 1      | THI              | F2    |                     | 36B                | PAGE 3             |        |
| 16931   |        | XA310     | 72  |    |        |           |     |    |             |      |       |       | TXAUC0  | 09     | TXAUC0   | 00   | 1      | THI              | F4    |                     | 34A                | XFER AUCTION TO    |        |
| 08217   |        | XA310     | 73  |    |        |           |     |    |             |      |       |       | TACP3A  | 02     | TACP30   | 01   | 1      | THI              | F2    |                     | 37B                |                    |        |
| 16921   |        | XA310     | 74  |    | XA351  | 36        |     |    |             | 16B  | 9     |       | TXAUCA  | 02     | TXAUC0   | 01   | 1      | THI              | F4    |                     | 35A                |                    |        |
| 15033   |        | XA310     | 75  |    | XA314  | 72        |     |    |             | 16B  | 9     |       | TQBD7A  | 01     | TQBD70   | 01   | 1      | THI              | F6    |                     | 39A                |                    |        |
| 14131   |        | XA310     | 76  |    | XA304  | 47        |     |    |             | 16B  | 9     |       | SPI022  | 03     |          | 01   | 1      | THI              | F5    |                     | 37A                | Q BIT POST PARTI   | 006    |
| 15039   |        | XA310     | 77  |    |        |           |     |    |             |      |       |       | TQBD70  | 05     | TQBD70   | 00   | 1      | THI              | F6    |                     | 38A                |                    |        |
| 14128   |        | XA310     | 78  |    |        |           |     |    |             |      |       |       | SPO     | 01     |          |      |        | THI              | F5    |                     | 36A                | SET MEM HOLD FF    | 006    |
| 08212   |        | XA310     | 79  |    |        |           |     |    |             |      |       |       | TACP2A  | 02     | TACP20   | 01   | 1      | THI              | F1    |                     | 39B                |                    |        |
| 08215   |        | XA310     | 80  |    |        |           |     |    |             |      |       |       | TACP20  | 03     | TACP20   | 00   | 1      | THI              | F1    |                     | 38B                | PAGE 2             |        |
| 08288   |        | XA311     | 01  |    | XA312  | 04        |     |    |             | 16B  | 9     |       | TACY0D  | 01     | TAC01Y   | 01   | 3      | MEM              | AY    |                     | 02B                |                    |        |
| 02394   |        | XA311     | 02  |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |        | MEM              |       |                     | 01A                |                    |        |
| 08314   |        | XA311     | 03  |    | XA312  | 05        |     |    |             | 16B  | 9     |       | TACY3D  | 01     | TAC01Y   | 01   | 4      | MEM              | AY    |                     | 02A                |                    |        |
| 08298   |        | XA311     | 04  |    | XA311  | 30        |     |    |             | 16B  | 9     |       | TACY1D  | 02     | TAC01Y   | 01   | 1      | MEM              | AY    |                     | 04A                |                    |        |
| 08307   |        | XA311     | 05  |    | XA311  | 29        |     |    |             | 16B  | 9     |       | TACY2D  | 02     | TAC01Y   | 01   | 2      | MEM              | AY    |                     | 03B                |                    |        |
| 08247   |        | XA311     | 06  |    | XA312  | 10        |     |    |             | 16B  | 9     |       | TACX2D  | 03     | TAC01X   | 01   | 1      | MEM              | AX    |                     | 05A                |                    |        |
| 08511   |        | XA311     | 07  |    | XA310  | 01        |     |    |             | 16B  | 9     |       | TAW410  | 01     | TAC01V1  | 01   | 1      | MEM              | AV    |                     | 03A                |                    |        |
| 08238   |        | XA311     | 08  |    | XA313  | 01        |     |    |             | 16B  | 9     |       | TACX1D  | 04     | TAC01X   | 01   | 2      | MEM              | AX    |                     | 06A                |                    |        |
| 08350   |        | XA311     | 09  |    | XA318  | 07        |     |    |             | 16B  | 9     |       | TAC01V1 | 02     | TAC01V1  | 00   | 1      | MEM              | AV    |                     | 04B                | PAGE 0 BIT 1 WRIT  |        |
| 08227   |        | XA311     | 10  |    | XA312  | 06        |     |    |             | 16B  | 9     |       | TACX0D  | 03     | TAC01X   | 01   | 3      | MEM              | AX    |                     | 07A                |                    |        |
| 08352   |        | XA311     | 11  |    | XA318  | 08        |     |    |             | 16B  | 9     |       | TAC01W1 | 01     | TAC01W1  | 00   | 1      | MEM              | AW    |                     | 05B                |                    |        |
| 00484   |        | XA311     | 12  |    |        |           |     |    |             |      |       |       | +5V     | 01     |          |      |        | MEM              |       |                     |                    |                    |        |
| 08479   |        | XA311     | 13  |    | XA310  | 03        |     |    |             | 16B  | 9     |       | TAW010  | 01     | TAC01W1  | 01   | 1      | MEM              | AW    |                     | 06B                |                    |        |
| 01106   |        | XA311     | 14  |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | MEM              |       |                     |                    |                    |        |
| 08258   |        | XA311     | 15  |    | XA311  | 39        |     |    |             | 16B  | 9     |       | TACX3D  | 04     | TAC01X   | 01   | 4      | MEM              | AX    |                     | 07B                |                    |        |
| CONNECTOR (XA311) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |    |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA311  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 192

| RECORD NUMBER                                     | FROM   |           |     | TO | WIRE  |             |      |       | SIGNAL  | SEQ NO  | EQUATION | TERM    | FACTS | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|-------|-------------|------|-------|---------|---------|----------|---------|-------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |    | DATE  | MULTI GROUP | CODE | COLOR |         |         |          |         |       |                  |       |                     |                    |                    |        |
| 02395   |        | XA311     | 16  |    |       |             |      |       | GND     | 01      |          |         |       | MEM              |       |                     | 21B                |                    |        |
| 01107   |        | XA311     | 17  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01108   |        | XA311     | 18  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01109   |        | XA311     | 19  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01110   |        | XA311     | 20  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01111   |        | XA311     | 21  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01112   |        | XA311     | 22  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01113   |        | XA311     | 23  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01114   |        | XA311     | 24  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01115   |        | XA311     | 25  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01116   |        | XA311     | 26  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01117   |        | XA311     | 27  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 00485   |        | XA311     | 28  |    |       |             |      |       | +5V     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 08308   |        | XA311     | 29  |    | XA312 | 36          |      | 16B   | 9       | TACY2D  | 03       | TAC11Y  | 01    | 4                | MEM   | BY                  | 14B                |                    |        |
| 08299   |        | XA311     | 30  |    | XA312 | 34          |      | 16B   | 9       | TACY1D  | 03       | TAC11Y  | 01    | 3                | MEM   | BY                  | 15A                |                    |        |
| 08519   |        | XA311     | 31  |    | XA310 | 14          |      | 16B   | 9       | TAW510  | 01       | TAC11V1 | 01    | 1                | MEM   | BV                  | 15B                |                    |        |
| 02396   |        | XA311     | 32  |    |       |             |      |       | GND     | 01      |          |         |       | MEM              |       |                     | 27A                |                    |        |
| 08360   |        | XA311     | 33  |    | XA318 | 17          |      | 16B   | 9       | TAC11V1 | 02       | TAC11V1 | 00    | 1                | MEM   | BV                  | 16B                |                    |        |
| 08316   |        | XA311     | 34  |    | XA312 | 30          |      | 16B   | 9       | TACY3D  | 03       | TAC11Y  | 01    | 2                | MEM   | BY                  | 16A                |                    |        |
| 08362   |        | XA311     | 35  |    | XA318 | 18          |      | 16B   | 9       | TAC11W1 | 01       | TAC11W1 | 00    | 1                | MEM   | BW                  | 17B                |                    |        |
| 08291   |        | XA311     | 36  |    | XA313 | 38          |      | 16B   | 9       | TACY0D  | 04       | TAC11Y  | 01    | 1                | MEM   | BY                  | 17A                |                    |        |
| 08487   |        | XA311     | 37  |    | XA310 | 18          |      | 16B   | 9       | TAW110  | 01       | TAC11W1 | 01    | 1                | MEM   | BW                  | 18B                |                    |        |
| 08226   |        | XA311     | 38  |    | XA311 | 10          |      | 16B   | 9       | TACX0D  | 02       | TAC11X  | 01    | 1                | MEM   | BX                  | 18A                |                    |        |
| 08259   |        | XA311     | 39  |    | XA312 | 38          |      | 16B   | 9       | TACX3D  | 05       | TAC11X  | 01    | 4                | MEM   | BX                  | 19B                |                    |        |
| 08236   |        | XA311     | 40  |    | XA312 | 15          |      | 16B   | 9       | TACX10  | 02       | TAC11X  | 01    | 2                | MEM   | BX                  | 19A                |                    |        |
| 08328   |        | XA311     | 41  |    | XA312 | 50          |      | 16B   | 9       | TACY5D  | 03       | TAC21Y  | 01    | 4                | MEM   | CY                  | 22B                |                    |        |
| 08246   |        | XA311     | 42  |    | XA311 | 06          |      | 16B   | 9       | TACX2D  | 02       | TAC11X  | 01    | 3                | MEM   | BX                  | 20A                |                    |        |
| 08527   |        | XA311     | 43  |    | XA310 | 30          |      | 16B   | 9       | TAW610  | 01       | TAC21V1 | 01    | 1                | MEM   | CV                  | 23B                |                    |        |
| 02397   |        | XA311     | 44  |    |       |             |      |       | GND     | 01      |          |         |       | MEM              |       |                     | 40A                |                    |        |
| 08371   |        | XA311     | 45  |    |       |             |      |       | TAC21V1 | 03      | TAC21V1  | 00      | 1     | MEM              | CV    |                     | 24B                | PAGE 2BIT 1 WRITE  |        |
| 08340   |        | XA311     | 46  |    | XA312 | 46          |      | 16B   | 9       | TACY7D  | 03       | TAC21Y  | 01    | 3                | MEM   | CY                  | 21A                |                    |        |
| 08372   |        | XA311     | 47  |    | XA318 | 26          |      | 16B   | 9       | TAC21W1 | 01       | TAC21W1 | 00    | 1                | MEM   | CW                  | 25B                |                    |        |
| 08335   |        | XA311     | 48  |    | XA312 | 65          |      | 16B   | 9       | TACY6D  | 04       | TAC21Y  | 01    | 2                | MEM   | CY                  | 22A                |                    |        |
| 08495   |        | XA311     | 49  |    | XA310 | 34          |      | 16B   | 9       | TAW210  | 01       | TAC21W1 | 01    | 1                | MEM   | CW                  | 26B                |                    |        |
| 08323   |        | XA311     | 50  |    | XA312 | 41          |      | 16B   | 9       | TACY4D  | 04       | TAC21Y  | 01    | 1                | MEM   | CY                  | 23A                |                    |        |
| 08281   |        | XA311     | 51  |    | XA312 | 56          |      | 16B   | 9       | TACX7D  | 03       | TAC21X  | 01    | 4                | MEM   | CX                  | 27B                |                    |        |
| 08264   |        | XA311     | 52  |    | XA311 | 77          |      | 16B   | 9       | TACX4D  | 04       | TAC21X  | 01    | 1                | MEM   | CX                  | 24A                |                    |        |
| 01118   |        | XA311     | 53  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 08269   |        | XA311     | 54  |    | XA312 | 52          |      | 16B   | 9       | TACX5D  | 03       | TAC21X  | 01    | 2                | MEM   | CX                  | 25A                |                    |        |
| 01119   |        | XA311     | 55  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 08276   |        | XA311     | 56  |    | XA311 | 75          |      | 16B   | 9       | TACX6D  | 04       | TAC21X  | 01    | 3                | MEM   | CX                  | 26A                |                    |        |
| 01120   |        | XA311     | 57  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 02398   |        | XA311     | 58  |    |       |             |      |       | GND     | 01      |          |         |       | MEM              |       |                     | 40B                |                    |        |
| 01121   |        | XA311     | 59  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01122   |        | XA311     | 60  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01123   |        | XA311     | 61  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01124   |        | XA311     | 62  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01125   |        | XA311     | 63  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 01126   |        | XA311     | 64  |    |       |             |      |       | DNW     | 01      |          |         |       | MEM              |       |                     |                    |                    |        |
| 08337   |        | XA311     | 65  |    |       |             |      |       | TACY6D  | 06      | TAC31Y   | 01      | 4     | MEM              | DY    |                     | 34B                |                    |        |
| CONNECTOR (XA311) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |       |             |      |       |         |         |          |         |       |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA311  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 193

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |    |    |     | SFC INST MISC | SIGNAL  | SEQ NO | EQU. TION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCL OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|----|----|-----|---------------|---------|--------|-----------|------|--------|------------------|-------|---------------------|---------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | DI   | DI | DI | DI  |               |         |        |           |      |        |                  |       |                     |                     |                    |        |
| 01127   |        | XA311     | 66  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 02399   |        | XA311     | 67  |        |           |     |      |    |    |     |               | GND     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01128   |        | XA311     | 68  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 08381   |        | XA311     | 69  |        |           |     |      |    |    |     |               | TAC31V1 | 03     | TAC31V1   | 00 1 | MEM    | DV               |       |                     | 35A                 | PAGE 3 BIT 1 WRI   |        |
| 01129   |        | XA311     | 70  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 08338   |        | XA311     | 71  |        | XA312     | 73  |      |    |    | 16B | 9             | TACY7D  | 01     | TAC31Y    | 01 2 | MEM    | DY               |       |                     | 36A                 |                    |        |
| 08322   |        | XA311     | 72  |        | XA311     | 50  |      |    |    | 16B | 9             | TACY4D  | 03     | TAC31Y    | 01 3 | MEM    | DY               |       |                     | 34A                 |                    |        |
| 08327   |        | XA311     | 73  |        | XA311     | 41  |      |    |    | 16B | 9             | TACY5D  | 02     | TAC31Y    | 01 1 | MEM    | DY               |       |                     | 36B                 |                    |        |
| 08535   |        | XA311     | 74  |        | XA310     | 43  |      |    |    | 16B | 9             | TAW710  | 01     | TAC31V1   | 01 1 | MEM    | DV               |       |                     | 35B                 |                    |        |
| 08277   |        | XA311     | 75  |        | XA312     | 77  |      |    |    | 16B | 9             | TACX6D  | 05     | TAC31X    | 01 1 | MEM    | DX               |       |                     | 37R                 |                    |        |
| 08382   |        | XA311     | 76  |        | XA318     | 30  |      |    |    | 16B | 9             | TAC31W1 | 01     | TAC31W1   | 00 1 | MEM    | DW               |       |                     | 37A                 |                    |        |
| 08265   |        | XA311     | 77  |        | XA312     | 80  |      |    |    | 16B | 9             | TACX4D  | 05     | TAC31X    | 01 2 | MEM    | DX               |       |                     | 38B                 |                    |        |
| 08503   |        | XA311     | 78  |        | XA310     | 46  |      |    |    | 16B | 9             | TAW310  | 01     | TAC31W1   | 01 1 | MEM    | DW               |       |                     | 38A                 |                    |        |
| 08280   |        | XA311     | 79  |        | XA311     | 51  |      |    |    | 16B | 9             | TACX7D  | 02     | TAC31X    | 01 3 | MEM    | DX               |       |                     | 39B                 |                    |        |
| 08268   |        | XA311     | 80  |        | XA311     | 54  |      |    |    | 16B | 9             | TACX5D  | 02     | TAC31X    | 01 4 | MEM    | DX               |       |                     | 39A                 |                    |        |
| 08306   |        | XA312     | 01  |        | XA311     | 05  |      |    |    | 16B | 9             | TACY2D  | 01     | TAC00Y    | 01 3 | MEM    | AY               |       |                     | 02B                 |                    |        |
| 02400   |        | XA312     | 02  |        |           |     |      |    |    |     |               | GND     | 01     |           |      |        | MEM              |       |                     |                     | 01A                |        |
| 08297   |        | XA312     | 03  |        | XA311     | 04  |      |    |    | 16B | 9             | TACY1D  | 01     | TAC00Y    | 01 4 | MEM    | AY               |       |                     | 02A                 |                    |        |
| 08289   |        | XA312     | 04  |        | XA312     | 29  |      |    |    | 16B | 9             | TACY0D  | 02     | TAC00Y    | 01 1 | MEM    | AY               |       |                     | 04A                 |                    |        |
| 08315   |        | XA312     | 05  |        | XA311     | 34  |      |    |    | 16B | 9             | TACY3D  | 02     | TAC00Y    | 01 2 | MEM    | AY               |       |                     | 03B                 |                    |        |
| 08228   |        | XA312     | 06  |        | XA313     | 06  |      |    |    | 16B | 9             | TACX0D  | 04     | TAC00X    | 01 1 | MEM    | AX               |       |                     | 05A                 |                    |        |
| 08507   |        | XA312     | 07  |        | XA310     | 08  |      |    |    | 16B | 9             | TAW400  | 01     | TAC00V1   | 01 1 | MEM    | AV               |       |                     | 03A                 |                    |        |
| 08256   |        | XA312     | 08  |        | XA313     | 15  |      |    |    | 16B | 9             | TACX3D  | 02     | TAC00X    | 01 2 | MEM    | AX               |       |                     | 06A                 |                    |        |
| 08345   |        | XA312     | 09  |        | XA318     | 05  |      |    |    | 16B | 9             | TAC00V1 | 02     | TAC00V1   | 00 1 | MEM    | AV               |       |                     | 04B                 |                    |        |
| 08248   |        | XA312     | 10  |        | XA313     | 09  |      |    |    | 16B | 9             | TACX2D  | 04     | TAC00X    | 01 3 | MEM    | AX               |       |                     | 07A                 |                    |        |
| 08347   |        | XA312     | 11  |        | XA318     | 06  |      |    |    | 16B | 9             | TAC00W1 | 01     | TAC00W1   | 00 1 | MEM    | AW               |       |                     | 05B                 |                    |        |
| 00486   |        | XA312     | 12  |        |           |     |      |    |    |     |               | +5V     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 08475   |        | XA312     | 13  |        | XA310     | 13  |      |    |    | 16B | 9             | TAW000  | 01     | TAC00W1   | 01 1 | MEM    | AW               |       |                     | 06B                 |                    |        |
| 01130   |        | XA312     | 14  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 08237   |        | XA312     | 15  |        | XA311     | 08  |      |    |    | 16B | 9             | TACX1D  | 03     | TAC00X    | 01 4 | MEM    | AX               |       |                     | 07B                 |                    |        |
| 02401   |        | XA312     | 16  |        |           |     |      |    |    |     |               | GND     | 01     |           |      |        | MEM              |       |                     |                     | 21B                |        |
| 01131   |        | XA312     | 17  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01132   |        | XA312     | 18  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01133   |        | XA312     | 19  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01134   |        | XA312     | 20  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01135   |        | XA312     | 21  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01136   |        | XA312     | 22  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01137   |        | XA312     | 23  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01138   |        | XA312     | 24  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01139   |        | XA312     | 25  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01140   |        | XA312     | 26  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 01141   |        | XA312     | 27  |        |           |     |      |    |    |     |               | DNW     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 00487   |        | XA312     | 28  |        |           |     |      |    |    |     |               | +5V     | 01     |           |      |        | MEM              |       |                     |                     |                    |        |
| 08290   |        | XA312     | 29  |        | XA311     | 36  |      |    |    | 16B | 9             | TACY0D  | 03     | TAC10Y    | 01 4 | MEM    | BY               |       |                     | 14B                 |                    |        |
| 08317   |        | XA312     | 30  |        | XA313     | 39  |      |    |    | 16B | 9             | TACY3D  | 04     | TAC10Y    | 01 3 | MEM    | BY               |       |                     | 15A                 |                    |        |
| 08515   |        | XA312     | 31  |        | XA310     | 25  |      |    |    | 16B | 9             | TAW500  | 01     | TAC10V1   | 01 1 | MEM    | BV               |       |                     | 15B                 |                    |        |
| 02402   |        | XA312     | 32  |        |           |     |      |    |    |     |               | GND     | 01     |           |      |        | MEM              |       |                     |                     | 27A                |        |
| 08356   |        | XA312     | 33  |        |           |     |      |    |    |     |               | TAC10V1 | 03     | TAC10V1   | 00 1 | MEM    | BV               |       |                     | 16B                 |                    |        |
| CONNECTOR XA312 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |    |    |     |               |         |        |           |      |        |                  |       |                     |                     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA312  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 194

| RECORD NUMBER | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM    | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO            |  |
|---------------|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|---------|----------|---------|------|------------------|-------|---------------------|--------------------|--------------------|-------------------|--|
|               | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |         |      |                  |       |                     |                    |                    |                   |  |
| 08300         |        | XA312     | 34  |      |        | XA313     | 30  |      |             |      | 16B   | 9     |        | TACY10  | 04       | TAC10Y  | 01   | 2                | MEM   | BY                  |                    | 16A                |                   |  |
| 08357         |        | XA312     | 35  |      |        | XA318     | 10  |      |             |      | 16B   | 9     |        | TAC10w1 | 01       | TAC10W1 | 00   | 1                | MEM   | BW                  |                    | 17B                |                   |  |
| 08309         |        | XA312     | 36  |      |        | XA313     | 33  |      |             |      | 16B   | 9     |        | TACY2D  | 04       | TAC10Y  | 01   | 1                | MEM   | BY                  |                    | 17A                |                   |  |
| 08483         |        | XA312     | 37  |      |        | XA310     | 24  |      |             |      | 16B   | 9     |        | TAW100  | 01       | TAC10W1 | 01   | 1                | MEM   | BW                  |                    | 18B                |                   |  |
| 08260         |        | XA312     | 38  |      |        |           |     |      |             |      |       |       |        | TACX3D  | 06       | TAC10X  | 01   | 1                | MEM   | BX                  |                    | 18A                |                   |  |
| 08225         |        | XA312     | 39  |      |        | XA311     | 38  |      |             |      | 16B   | 9     |        | TACX00  | 01       | TAC10X  | 01   | 4                | MEM   | BX                  |                    | 19B                |                   |  |
| 08235         |        | XA312     | 40  |      |        | XA311     | 40  |      |             |      | 16B   | 9     |        | TACX1D  | 01       | TAC10X  | 01   | 2                | MEM   | BX                  |                    | 19A                |                   |  |
| 08324         |        | XA312     | 41  |      |        | XA313     | 52  |      |             |      | 16B   | 9     |        | TACY4D  | 05       | TAC20Y  | 01   | 4                | MEM   | CY                  |                    | 22B                |                   |  |
| 08245         |        | XA312     | 42  |      |        | XA311     | 42  |      |             |      | 16B   | 9     |        | TACX2D  | 01       | TAC10X  | 01   | 3                | MEM   | BX                  |                    | 20A                |                   |  |
| 08523         |        | XA312     | 43  |      |        | XA310     | 37  |      |             |      | 16B   | 9     |        | TAW600  | 01       | TAC20V1 | 01   | 1                | MEM   | CV                  |                    | 23B                |                   |  |
| 02403         |        | XA312     | 44  |      |        |           |     |      |             |      |       |       |        | GND     | 01       |         |      |                  | MEM   |                     |                    | 40A                |                   |  |
| 08366         |        | XA312     | 45  |      |        |           |     |      |             |      |       |       |        | TAC20V1 | 03       | TAC20V1 | 00   | 1                | MEM   | CV                  |                    | 24B                | PAGE 2 BIT 0 WRIT |  |
| 08341         |        | XA312     | 46  |      |        | XA313     | 51  |      |             |      | 16B   | 9     |        | TACY7D  | 04       | TAC20Y  | 01   | 3                | MEM   | CY                  |                    | 21A                |                   |  |
| 08367         |        | XA312     | 47  |      |        | XA318     | 20  |      |             |      | 16B   | 9     |        | TAC20W1 | 01       | TAC20W1 | 00   | 1                | MEM   | CW                  |                    | 25B                |                   |  |
| 08334         |        | XA312     | 48  |      |        | XA311     | 48  |      |             |      | 16B   | 9     |        | TACY6D  | 03       | TAC20Y  | 01   | 2                | MEM   | CY                  |                    | 22A                |                   |  |
| 08491         |        | XA312     | 49  |      |        | XA310     | 40  |      |             |      | 16B   | 9     |        | TAW200  | 01       | TAC20W1 | 01   | 1                | MEM   | CW                  |                    | 26B                |                   |  |
| 08329         |        | XA312     | 50  |      |        | XA313     | 46  |      |             |      | 16B   | 9     |        | TACY5D  | 04       | TAC20Y  | 01   | 1                | MEM   | CY                  |                    | 23A                |                   |  |
| 08263         |        | XA312     | 51  |      |        | XA311     | 52  |      |             |      | 16B   | 9     |        | TACX4D  | 03       | TAC20X  | 01   | 4                | MEM   | CX                  |                    | 27B                |                   |  |
| 08270         |        | XA312     | 52  |      |        | XA313     | 14  |      |             |      | 16B   | 9     |        | TACX5D  | 04       | TAC20X  | 01   | 1                | MEM   | CX                  |                    | 24A                |                   |  |
| 01142         |        | XA312     | 53  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 08275         |        | XA312     | 54  |      |        | XA311     | 56  |      |             |      | 16B   | 9     |        | TACX6D  | 03       | TAC20X  | 01   | 2                | MEM   | CX                  |                    | 25A                |                   |  |
| 01143         |        | XA312     | 55  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 08282         |        | XA312     | 56  |      |        | XA313     | 27  |      |             |      | 16B   | 9     |        | TACX7D  | 04       | TAC20X  | 01   | 3                | MEM   | CX                  |                    | 26A                |                   |  |
| 01144         |        | XA312     | 57  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 02404         |        | XA312     | 58  |      |        |           |     |      |             |      |       |       |        | GND     | 01       |         |      |                  | MEM   |                     |                    | 40B                |                   |  |
| 01145         |        | XA312     | 59  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 01146         |        | XA312     | 60  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 01147         |        | XA312     | 61  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 01148         |        | XA312     | 62  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 01149         |        | XA312     | 63  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 01150         |        | XA312     | 64  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 08336         |        | XA312     | 65  |      |        | XA311     | 65  |      |             |      | 16B   | 9     |        | TACY6D  | 05       | TAC30Y  | 01   | 4                | MEM   | DY                  |                    | 34B                |                   |  |
| 01151         |        | XA312     | 66  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 02405         |        | XA312     | 67  |      |        |           |     |      |             |      |       |       |        | GND     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 01152         |        | XA312     | 68  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 08376         |        | XA312     | 69  |      |        |           |     |      |             |      |       |       |        | TAC30V1 | 03       | TAC30V1 | 00   | 1                | MEM   | DV                  |                    | 35A                | PAGE 3 BIT 0 WRIT |  |
| 01153         |        | XA312     | 70  |      |        |           |     |      |             |      |       |       |        | DNW     | 01       |         |      |                  | MEM   |                     |                    |                    |                   |  |
| 08321         |        | XA312     | 71  |      |        | XA311     | 72  |      |             |      | 16B   | 9     |        | TACY4D  | 02       | TAC30Y  | 01   | 2                | MEM   | DY                  |                    | 36A                |                   |  |
| 08326         |        | XA312     | 72  |      |        | XA311     | 73  |      |             |      | 16B   | 9     |        | TACY5D  | 01       | TAC30Y  | 01   | 3                | MEM   | DY                  |                    | 34A                |                   |  |
| 08339         |        | XA312     | 73  |      |        | XA311     | 46  |      |             |      | 16B   | 9     |        | TACY7D  | 02       | TAC30Y  | 01   | 1                | MEM   | DY                  |                    | 36B                |                   |  |
| 08531         |        | XA312     | 74  |      |        | XA310     | 48  |      |             |      | 16B   | 9     |        | TAW700  | 01       | TAC30V1 | 01   | 1                | MEM   | DV                  |                    | 35B                |                   |  |
| 08279         |        | XA312     | 75  |      |        | XA311     | 79  |      |             |      | 16B   | 9     |        | TACX7D  | 01       | TAC30X  | 01   | 1                | MEM   | DX                  |                    | 37B                |                   |  |
| 08377         |        | XA312     | 76  |      |        | XA318     | 25  |      |             |      | 16B   | 9     |        | TAC30W1 | 01       | TAC30W1 | 00   | 1                | MEM   | DW                  |                    | 37A                |                   |  |
| 08278         |        | XA312     | 77  |      |        |           |     |      |             |      |       |       |        | TACX6D  | 06       | TAC30X  | 01   | 2                | MEM   | DX                  |                    | 38B                |                   |  |
| 08499         |        | XA312     | 78  |      |        | XA310     | 54  |      |             |      | 16B   | 9     |        | TAW300  | 01       | TAC30W1 | 01   | 1                | MEM   | DW                  |                    | 38A                |                   |  |
| 08267         |        | XA312     | 79  |      |        | XA311     | 80  |      |             |      | 16B   | 9     |        | TACX5D  | 01       | TAC30X  | 01   | 3                | MEM   | DX                  |                    | 39B                |                   |  |
| 08266         |        | XA312     | 80  |      |        |           |     |      |             |      |       |       |        | TACX4D  | 06       | TAC30X  | 01   | 4                | MEM   | DX                  |                    | 39A                |                   |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA313  
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| RECORD NUMBER                                   | FROM   |           |     | WIRE | TO  |        |           | MULTI GROUP | CODE | COLOR | IDENT | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|-----|--------|-----------|-------------|------|-------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |      | PIN | PREFIX | CONNECTOR |             |      |       |       |               |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 08239   |        | XA313     | 01  |      |     | XA337  | 07        |             | 16B  | 9     |       |               | TACX1D | 05     | TACX1D   | 00   | 1      | TLD              | A2    |                     | 02B                | X1 LINE DRIVER M   |        |
| 02406   |        | XA313     | 02  |      |     |        |           |             |      |       |       |               | GND    | 01     |          |      |        | TLD              |       |                     | 01A                |                    |        |
| 05543   |        | XA313     | 03  |      |     | XA313  | 10        |             | 16B  | 9     |       |               | SPI023 | 26     | TACX2D   | 01   | 1      | TLD              | A3    |                     | 02A                |                    |        |
| 08234   |        | XA313     | 04  |      |     |        |           |             |      |       |       |               | TACX1A | 04     | TACX1D   | 01   | 1      | TLD              | A2    |                     | 04A                |                    |        |
| 05542   |        | XA313     | 05  |      |     | XA313  | 03        |             | 16B  | 9     |       |               | SPI023 | 25     | TACX1D   | 01   | 2      | TLD              | A2    |                     | 03B                |                    |        |
| 08229   |        | XA313     | 06  |      |     | XA337  | 05        |             | 16B  | 9     |       |               | TACX0D | 05     | TACX0D   | 00   | 1      | TLD              | A1    |                     | 05A                | X0 LINE DRIVER M   |        |
| 08244   |        | XA313     | 07  |      |     |        |           |             |      |       |       |               | TACX2A | 04     | TACX2D   | 01   | 2      | TLD              | A3    |                     | 03A                |                    |        |
| 08223   |        | XA313     | 08  |      |     | XA313  | 26        |             | 16B  | 9     |       |               | TACX0A | 03     | TACX0D   | 01   | 1      | TLD              | A1    |                     | 06A                |                    |        |
| 08249   |        | XA313     | 09  |      |     | XA337  | 08        |             | 16B  | 9     |       |               | TACX2D | 05     | TACX2D   | 00   | 1      | TLD              | A3    |                     | 04B                | X2 LINE DRIVER M   |        |
| 05544   |        | XA313     | 10  |      |     | XA310  | 09        |             | 16B  | 9     |       |               | SPI023 | 27     | TACX0D   | 01   | 2      | TLD              | A1    |                     | 07A                |                    |        |
| 05541   |        | XA313     | 11  |      |     | XA313  | 05        |             | 16B  | 9     |       |               | SPI023 | 24     | TACX3D   | 01   | 1      | TLD              | A4    |                     | 05B                |                    |        |
| 00488   |        | XA313     | 12  |      |     |        |           |             |      |       |       |               | +5V    | 01     |          |      |        | TLD              |       |                     |                    |                    |        |
| 08251   |        | XA313     | 13  |      |     | XA313  | 23        |             | 16B  | 9     |       |               | TACX3A | 01     | TACX3D   | 01   | 2      | TLD              | A4    |                     | 06B                |                    |        |
| 08271   |        | XA313     | 14  |      |     | XA337  | 24        |             | 16B  | 9     |       |               | TACX5D | 05     | TACX5D   | 00   | 1      | TLD              | B2    |                     | 09A                | X5 LINE DRIVER M   |        |
| 08257   |        | XA313     | 15  |      |     | XA311  | 15        |             | 16B  | 9     |       |               | TACX3D | 03     | TACX3D   | 00   | 1      | TLD              | A4    |                     | 07B                | X3 LINE DRIVER M   |        |
| 02407   |        | XA313     | 16  |      |     |        |           |             |      |       |       |               | GND    | 01     |          |      |        | TLD              |       |                     | 01B                |                    |        |
| 08243   |        | XA313     | 17  |      |     | XA313  | 07        |             | 16B  | 9     |       |               | TACX2A | 03     | TACX6D   | 01   | 1      | TLD              | B3    |                     | 08B                |                    |        |
| 05539   |        | XA313     | 18  |      |     | XA313  | 19        |             | 16B  | 9     |       |               | SPI023 | 22     | TACX5D   | 01   | 1      | TLD              | B2    |                     | 10A                |                    |        |
| 05540   |        | XA313     | 19  |      |     | XA313  | 11        |             | 16B  | 9     |       |               | SPI023 | 23     | TACX6D   | 01   | 2      | TLD              | B3    |                     | 09B                |                    |        |
| 08233   |        | XA313     | 20  |      |     | XA313  | 04        |             | 16B  | 9     |       |               | TACX1A | 03     | TACX5D   | 01   | 2      | TLD              | B2    |                     | 11A                |                    |        |
| 08274   |        | XA313     | 21  |      |     | XA312  | 54        |             | 16B  | 9     |       |               | TACX6D | 02     | TACX6D   | 00   | 1      | TLD              | B3    |                     | 10B                | X6 LINE DRIVER M   |        |
| 08262   |        | XA313     | 22  |      |     | XA312  | 51        |             | 16B  | 9     |       |               | TACX4D | 02     | TACX4D   | 00   | 1      | TLD              | B1    |                     | 12A                | X4 LINE DRIVER M   |        |
| 08252   |        | XA313     | 23  |      |     | XA320  | 21        |             | 16B  | 9     |       |               | TACX3A | 02     | TACX7D   | 01   | 1      | TLD              | B4    |                     | 11B                |                    |        |
| 05538   |        | XA313     | 24  |      |     | XA313  | 18        |             | 16B  | 9     |       |               | SPI023 | 21     | TACX4D   | 01   | 1      | TLD              | B1    |                     | 13A                |                    |        |
| 05537   |        | XA313     | 25  |      |     | XA313  | 24        |             | 16B  | 9     |       |               | SPI023 | 20     | TACX7D   | 01   | 2      | TLD              | B4    |                     | 12B                |                    |        |
| 08224   |        | XA313     | 26  |      |     |        |           |             |      |       |       |               | TACX0A | 04     | TACX4D   | 01   | 2      | TLD              | B1    |                     | 14A                |                    |        |
| 08283   |        | XA313     | 27  |      |     | XA337  | 20        |             | 16B  | 9     |       |               | TACX7D | 05     | TACX7D   | 00   | 1      | TLD              | B4    |                     | 13B                | X7 LINE DRIVER M   |        |
| 00489   |        | XA313     | 28  |      |     |        |           |             |      |       |       |               | +5V    | 01     |          |      |        | TLD              |       |                     |                    |                    |        |
| 05536   |        | XA313     | 29  |      |     | XA313  | 25        |             | 16B  | 9     |       |               | SPI023 | 19     | TACY2D   | 01   | 1      | TLD              | C3    |                     | 14B                |                    |        |
| 08301   |        | XA313     | 30  |      |     | XA337  | 37        |             | 16B  | 9     |       |               | TACY1D | 05     | TACY1D   | 00   | 1      | TLD              | C2    |                     | 15A                | Y1 LINE DRIVER M   |        |
| 08304   |        | XA313     | 31  |      |     | XA320  | 30        |             | 16B  | 9     |       |               | TACY2A | 02     | TACY2D   | 01   | 2      | TLD              | C3    |                     | 15B                |                    |        |
| 02408   |        | XA313     | 32  |      |     |        |           |             |      |       |       |               | GND    | 01     |          |      |        | TLD              |       |                     | 21B                |                    |        |
| 08310   |        | XA313     | 33  |      |     | XA337  | 42        |             | 16B  | 9     |       |               | TACY2D | 05     | TACY2D   | 00   | 1      | TLD              | C3    |                     | 16B                | Y2 LINE DRIVER M   |        |
| 08295   |        | XA313     | 34  |      |     | XA320  | 38        |             | 16B  | 9     |       |               | TACY1A | 02     | TACY1D   | 01   | 1      | TLD              | C2    |                     | 16A                |                    |        |
| 05535   |        | XA313     | 35  |      |     | XA313  | 29        |             | 16B  | 9     |       |               | SPI023 | 18     | TACY3D   | 01   | 1      | TLD              | C4    |                     | 17B                |                    |        |
| 05534   |        | XA313     | 36  |      |     | XA313  | 35        |             | 16B  | 9     |       |               | SPI023 | 17     | TACY1D   | 01   | 2      | TLD              | C2    |                     | 17A                |                    |        |
| 08312   |        | XA313     | 37  |      |     | XA320  | 33        |             | 16B  | 9     |       |               | TACY3A | 02     | TACY3D   | 01   | 2      | TLD              | C4    |                     | 18B                |                    |        |
| 08292   |        | XA313     | 38  |      |     | XA337  | 26        |             | 16B  | 9     |       |               | TACY0D | 05     | TACY0D   | 00   | 1      | TLD              | C1    |                     | 18A                | Y0 LINE DRIVER M   |        |
| 08318   |        | XA313     | 39  |      |     | XA337  | 39        |             | 16B  | 9     |       |               | TACY3D | 05     | TACY3D   | 00   | 1      | TLD              | C4    |                     | 19B                | Y3 LINE DRIVER M   |        |
| 08286   |        | XA313     | 40  |      |     | XA320  | 27        |             | 16B  | 9     |       |               | TACY0A | 02     | TACY0D   | 01   | 1      | TLD              | C1    |                     | 19A                |                    |        |
| 08303   |        | XA313     | 41  |      |     | XA313  | 31        |             | 16B  | 9     |       |               | TACY2A | 01     | TACY6D   | 01   | 1      | TLD              | D3    |                     | 22B                |                    |        |
| 05533   |        | XA313     | 42  |      |     | XA313  | 36        |             | 16B  | 9     |       |               | SPI023 | 16     | TACY0D   | 01   | 2      | TLD              | C1    |                     | 20A                |                    |        |
| 05532   |        | XA313     | 43  |      |     | XA313  | 42        |             | 16B  | 9     |       |               | SPI023 | 15     | TACY6D   | 01   | 2      | TLD              | D3    |                     | 23B                |                    |        |
| 02409   |        | XA313     | 44  |      |     |        |           |             |      |       |       |               | GND    | 01     |          |      |        | TLD              |       |                     | 27A                |                    |        |
| 08333   |        | XA313     | 45  |      |     | XA312  | 48        |             | 16B  | 9     |       |               | TACY6D | 02     | TACY6D   | 00   | 1      | TLD              | D3    |                     | 24B                | Y6 LINE DRIVER M   |        |
| 08330   |        | XA313     | 46  |      |     | XA337  | 41        |             | 16B  | 9     |       |               | TACY5D | 05     | TACY5D   | 00   | 1      | TLD              | D2    |                     | 21A                | Y5 LINE DRIVER M   |        |
| 08311   |        | XA313     | 47  |      |     | XA313  | 37        |             | 16B  | 9     |       |               | TACY3A | 01     | TACY7D   | 01   | 1      | TLD              | D4    |                     | 25B                |                    |        |
| 05528   |        | XA313     | 48  |      |     | XA313  | 54        |             | 16B  | 9     |       |               | SPI023 | 11     | TACY5D   | 01   | 1      | TLD              | D2    |                     | 22A                |                    |        |
| 05531   |        | XA313     | 49  |      |     | XA313  | 43        |             | 16B  | 9     |       |               | SPI023 | 14     | TACY7D   | 01   | 2      | TLD              | D4    |                     | 26B                |                    |        |
| 08294   |        | XA313     | 50  |      |     | XA313  | 34        |             | 16B  | 9     |       |               | TACY1A | 01     | TACY5D   | 01   | 2      | TLD              | D2    |                     | 23A                |                    |        |
| CONNECTOR XA313 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |     |        |           |             |      |       |       |               |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA313  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 196

| RECORD NUMBER                                     | FROM   |           |     |        | TO     |           |     |        | WIRE        |      |       |        | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINT'S AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|--------|-----------|-----|--------|-------------|------|-------|--------|--------|--------|----------|------|--------|------------------|-------|---------------------|---------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | TO I/O | PREFIX | CONNECTOR | PIN | TO I/O | MULTI GROUP | CODE | COLOR | IDENT  |        |        |          |      |        |                  |       |                     |                     |                    |        |
| 08342   |        | XA313     | 51  |        | XA337  | 47        |     |        | 168         | 9    |       |        | TACY7D | 05     | TACY7D   | 00   | 1      | TLD              | D4    |                     | 27B                 | Y7 LINE DRIVER M   |        |
| 08325   |        | XA313     | 52  |        |        |           |     |        |             |      |       |        | TACY4D | 06     | TACY4D   | 00   | 1      | TLD              | D1    |                     | 24A                 | Y4 LINE DRIVER M   |        |
| 14167   |        | XA313     | 53  |        | XA115  | 52        |     |        | 168         | 9    |       |        | TMRCAA | 02     | KIR11D   | 01   | 1      | TLD              | E3    |                     | 28B                 |                    |        |
| 05529   |        | XA313     | 54  |        | XA313  | 55        |     |        | 168         | 9    |       |        | SPI023 | 12     | TACY4D   | 01   | 1      | TLD              | D1    |                     | 25A                 |                    |        |
| 05530   |        | XA313     | 55  |        | XA313  | 49        |     |        | 168         | 9    |       |        | SPI023 | 13     | KIR11D   | 01   | 2      | TLD              | E3    |                     | 29B                 |                    |        |
| 08285   |        | XA313     | 56  |        | XA313  | 40        |     |        | 168         | 9    |       |        | TACY0A | 01     | TACY4D   | 01   | 2      | TLD              | D1    |                     | 26A                 |                    |        |
| 03951   |        | XA313     | 57  |        | XA337  | 52        |     |        | 168         | 9    |       | P      | KIR11D | 02     | KIR11B   | 01   | 1      | TLD              | E3    |                     | 30B                 | ITR ADDRESS 01     |        |
| 03985   |        | XA313     | 57  |        |        |           |     |        |             |      | J     | KIR11D | 01     | KIR11D | 00       | 1    | TLD    | E3               |       |                     | 30B                 | KIR11B BUSS        |        |
| 02410   |        | XA313     | 58  |        |        |           |     |        |             |      |       |        | GND    | 01     |          |      |        | TLD              |       |                     | 40A                 |                    |        |
| 14166   |        | XA313     | 59  |        | XA313  | 53        |     |        | 168         | 9    |       |        | TMRCAA | 01     | KIR12D   | 01   | 1      | TLD              | E4    |                     | 31B                 |                    |        |
| 03946   |        | XA313     | 60  |        | XA313  | 66        |     |        | 168         | 9    |       | P      | KGND1D | 01     | KGND0B   | 02   | 1      | TLD              | E2    |                     | 28A                 | GROUND 1           |        |
| 03949   |        | XA313     | 60  |        |        |           |     |        |             |      | J     | KGND1D | 01     | KGND1D | 00       | 1    | TLD    | E2               |       |                     | 28A                 | KGND0B BUSS        |        |
| 05526   |        | XA313     | 61  |        | XA313  | 62        |     |        | 168         | 9    |       |        | SPI023 | 09     | KIR12D   | 01   | 2      | TLD              | E4    |                     | 32B                 |                    |        |
| 05527   |        | XA313     | 62  |        | XA313  | 48        |     |        | 168         | 9    |       |        | SPI023 | 10     | KGND1D   | 01   | 1      | TLD              | E2    |                     | 29A                 |                    |        |
| 03950   |        | XA313     | 63  |        | XA313  | 57        |     |        | 168         | 9    |       | P      | KIR12D | 01     | KIR11B   | 02   | 1      | TLD              | E4    |                     | 33B                 | ITR ADDRESS 01     |        |
| 03986   |        | XA313     | 63  |        |        |           |     |        |             |      | J     | KIR12D | 01     | KIR12D | 00       | 1    | TLD    | E4               |       |                     | 33B                 | KIR11B BUSS        |        |
| 05496   |        | XA313     | 64  |        | XA121  | 20        |     |        | 168         | 9    |       |        | SPI022 | 09     | KGND1D   | 01   | 2      | TLD              | E2    |                     | 30A                 |                    |        |
| 05560   |        | XA313     | 65  |        | XA313  | 76        |     |        | 168         | 9    |       |        | SPI024 | 14     |          | 01   | 1      | TLD              | F3    |                     | 34B                 |                    |        |
| 03947   |        | XA313     | 66  |        | XA337  | 78        |     |        | 168         | 9    |       | P      | KGND0D | 02     | KGND0B   | 01   | 1      | TLD              | E1    |                     | 31A                 | GROUND 0           |        |
| 03948   |        | XA313     | 66  |        |        |           |     |        |             |      | J     | KGND0D | 01     | KGND0D | 00       | 1    | TLD    | E1               |       |                     | 31A                 | KGND0B BUSS        |        |
| 02411   |        | XA313     | 67  |        |        |           |     |        |             |      |       |        | GND    | 01     |          |      |        | TLD              |       |                     |                     |                    |        |
| 05525   |        | XA313     | 68  |        | XA313  | 61        |     |        | 168         | 9    |       |        | SPI023 | 08     | KGND0D   | 01   | 1      | TLD              | E1    |                     | 32A                 |                    |        |
| 20384   |        | XA313     | 69  |        |        |           |     |        |             |      | M     | SP0022 | 01     |        | 00       | 1    | TLD    | F3               |       |                     | 35A                 |                    |        |
| 05495   |        | XA313     | 70  |        | XA313  | 64        |     |        | 168         | 9    |       |        | SPI022 | 08     | KGND0D   | 01   | 2      | TLD              | E1    |                     | 33A                 |                    |        |
| 09597   |        | XA313     | 71  |        | XA346  | 69        |     |        | 168         | 9    |       |        | TCCCAA | 02     | KIR22D   | 01   | 1      | TLD              | F2    |                     | 36A                 |                    |        |
| 03988   |        | XA313     | 72  |        | XA337  | 35        |     |        | 168         | 9    |       | P      | KIR22D | 02     | KIR21B   | 02   | 1      | TLD              | F2    |                     | 34A                 | ITR ADDRESS 02     |        |
| 04022   |        | XA313     | 72  |        |        |           |     |        |             |      | J     | KIR22D | 01     | KIR22D | 00       | 1    | TLD    | F2               |       |                     | 34A                 | KIR21B BUSS        |        |
| 05561   |        | XA313     | 73  |        | XA313  | 68        |     |        | 168         | 9    |       |        | SPI023 | 075    | KIR22D   | 01   | 2      | TLD              | F2    |                     | 36B                 |                    |        |
| 05494   |        | XA313     | 74  |        | XA313  | 70        |     |        | 168         | 9    |       |        | SPI022 | 07     |          | 01   | 2      | TLD              | F3    |                     | 35B                 |                    |        |
| 03987   |        | XA313     | 75  |        | XA313  | 72        |     |        | 168         | 9    |       | P      | KIR21D | 01     | KIR21B   | 01   | 1      | TLD              | F1    |                     | 37B                 | ITR ADDRESS 02     |        |
| 04021   |        | XA313     | 75  |        |        |           |     |        |             |      | J     | KIR21D | 01     | KIR21D | 00       | 1    | TLD    | F1               |       |                     | 37B                 | KIR21B BUSS        |        |
| 05562   |        | XA313     | 76  |        | XA317  | 75        |     |        | 168         | 9    |       |        | SPI024 | 16     |          | 01   | 1      | TLD              | F4    |                     | 37A                 |                    |        |
| 05524   |        | XA313     | 77  |        | XA313  | 73        |     |        | 168         | 9    |       |        | SPI023 | 07     | KIR21D   | 01   | 1      | TLD              | F1    |                     | 38B                 |                    |        |
| 05602   |        | XA313     | 78  |        | XA317  | 53        |     |        | 168         | 9    |       |        | SPI025 | 30     |          | 01   | 2      | TLD              | F4    |                     | 38A                 |                    |        |
| 09596   |        | XA313     | 79  |        | XA313  | 71        |     |        | 168         | 9    |       |        | TCCCAA | 01     | KIR21D   | 01   | 2      | TLD              | F1    |                     | 39B                 |                    |        |
| 20385   |        | XA313     | 80  |        |        |           |     |        |             |      | M     | SP0023 | 01     |        | 00       | 1    | TLD    | F4               |       |                     | 39A                 |                    |        |
| 16786   |        | XA314     | 01  |        | XA316  | 65        |     |        | 168         | 9    |       |        | TU241A | 01     | TU241A   | 00   | 1      | TQ2              | A2    |                     | 02B                 | UPDATE CA24 IF 2   |        |
| 02412   |        | XA314     | 02  |        |        |           |     |        |             |      |       |        | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                 |                    |        |
| 10469   |        | XA314     | 03  |        | XA214  | 13        |     |        | 168         | 9    |       |        | TC25BP | 04     | TU242A   | 01   | 1      | TQ2              | A3    |                     | 02A                 |                    |        |
| 10472   |        | XA314     | 04  |        | XA314  | 08        |     |        | 168         | 9    |       |        | TC25BQ | 02     | TU241A   | 01   | 1      | TQ2              | A2    |                     | 04A                 |                    |        |
| 10458   |        | XA314     | 05  |        |        |           |     |        |             |      |       |        | TC24BP | 04     | TU241A   | 01   | 2      | TQ2              | A2    |                     | 03B                 |                    |        |
| 16782   |        | XA314     | 06  |        | XA316  | 73        |     |        | 168         | 9    |       |        | TU231A | 01     | TU231A   | 00   | 1      | TQ2              | A1    |                     | 05A                 | UPDATE CA23 IF 2   |        |
| 10460   |        | XA314     | 07  |        | XA314  | 10        |     |        | 168         | 9    |       |        | TC24BQ | 02     | TU242A   | 01   | 2      | TQ2              | A3    |                     | 03A                 |                    |        |
| 10473   |        | XA314     | 08  |        | XA316  | 07        |     |        | 168         | 9    |       |        | TC25BQ | 03     | TU231A   | 01   | 1      | TQ2              | A1    |                     | 06A                 |                    |        |
| 16789   |        | XA314     | 09  |        |        |           |     |        |             |      |       |        | TU242A | 02     | TU242A   | 00   | 1      | TQ2              | A3    |                     | 04B                 | UPDATE CA24 IF 2   |        |
| 10461   |        | XA314     | 10  |        | XA317  | 13        |     |        | 168         | 9    |       |        | TC24BQ | 03     | TU231A   | 01   | 2      | TQ2              | A1    |                     | 07A                 |                    |        |
| 05555   |        | XA314     | 11  |        | XA317  | 06        |     |        | 168         | 9    |       |        | SPI024 | 09     | TACP3A   | 01   | 1      | TQ2              | A4    |                     | 05B                 |                    |        |
| 00490   |        | XA314     | 12  |        |        |           |     |        |             |      |       |        | +5V    | 01     |          |      |        | TQ2              |       |                     |                     |                    |        |
| CONNECTOR (XA314) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |           |     |        |             |      |       |        |        |        |          |      |        |                  |       |                     |                     |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA314  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 197

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SFC INST. MISC | SIGNAL | SEQ NO | EQU. TION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP. POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|----------------|--------|--------|-----------|------|--------|------------------|-------|----------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR |                |        |        |           |      |        |                  |       |                      |                    |                    |        |
| 16757   |        | XA314     | 13  |        | XA310     | 31  |      |             | 168  | 9     |                | TU1710 | 02     | TACP3A    | 01   | 2      | TQ2              | A4    |                      | 06B                |                    |        |
| 11812   |        | XA314     | 14  |        |           |     |      |             |      |       |                | TD142A | 02     | TD142A    | 00   | 1      | TQ2              | B2    |                      | 09A                | UPDATE TC14 TO T   |        |
| 08216   |        | XA314     | 15  |        | XA310     | 73  |      |             | 168  | 9     |                | TACP3A | 01     | TACP3A    | 03   | 1      | TQ2              | A4    |                      | 07B                | PAGE 3             |        |
| 02413   |        | XA314     | 16  |        |           |     |      |             |      |       |                | GND    | 01     |           |      |        | TQ2              |       |                      | 01B                |                    |        |
| 10343   |        | XA314     | 17  |        | XA218     | 37  |      |             | 168  | 9     |                | TC168Q | 05     | TU141A    | 01   | 1      | TQ2              | B3    |                      | 08B                |                    |        |
| 16738   |        | XA314     | 18  |        | XA320     | 39  |      |             | 168  | 9     |                | TU14A0 | 01     | TD142A    | 01   | 1      | TQ2              | B2    |                      | 10A                |                    |        |
| 10318   |        | XA314     | 19  |        | XA314     | 29  |      |             | 168  | 9     |                | TC158Q | 05     | TU141A    | 01   | 2      | TQ2              | B3    |                      | 09B                |                    |        |
| 09433   |        | XA314     | 20  |        | XA324     | 31  |      |             | 168  | 9     |                | TCAM10 | 03     | TD142A    | 01   | 2      | TQ2              | B2    |                      | 11A                |                    |        |
| 16741   |        | XA314     | 21  |        | XA320     | 35  |      |             | 168  | 9     |                | TU141A | 02     | TU141A    | 00   | 1      | TQ2              | B3    |                      | 10B                | UPDATE CA 14 IF    |        |
| 11809   |        | XA314     | 22  |        | XA222     | 14  |      |             | 168  | 9     |                | TD141A | 01     | TD141A    | 00   | 1      | TQ2              | B1    |                      | 12A                | XFER TC14 TO TD1   |        |
| 10295   |        | XA314     | 23  |        | XA314     | 26  |      |             | 168  | 9     |                | TC148Q | 02     | TCAC1A    | 01   | 1      | TQ2              | B4    |                      | 11B                |                    |        |
| 09485   |        | XA314     | 24  |        |           |     |      |             |      |       |                | TCAX10 | 04     | TD141A    | 01   | 1      | TQ2              | B1    |                      | 13A                |                    |        |
| 16743   |        | XA314     | 25  |        | XA310     | 19  |      |             | 168  | 9     |                | TU1410 | 01     | TCAC1A    | 01   | 2      | TQ2              | B4    |                      | 12B                |                    |        |
| 10296   |        | XA314     | 26  |        | XA321     | 25  |      |             | 168  | 9     |                | TC148Q | 03     | TD141A    | 01   | 2      | TQ2              | B1    |                      | 14A                |                    |        |
| 09368   |        | XA314     | 27  |        |           |     |      |             |      |       |                | TCAC1A | 02     | TCAC1A    | 00   | 1      | TQ2              | B4    |                      | 13B                | TC CARRY GPI FOR   |        |
| 00491   |        | XA314     | 28  |        |           |     |      |             |      |       |                | +5V    | 01     |           |      |        | TQ2              |       |                      |                    |                    |        |
| 10319   |        | XA314     | 29  |        | XA218     | 11  |      |             | 168  | 9     |                | TC158Q | 06     | TU152A    | 01   | 1      | TQ2              | C3    |                      | 14B                |                    |        |
| 16747   |        | XA314     | 30  |        | XA316     | 70  |      |             | 168  | 9     |                | TU151A | 01     | TU151A    | 00   | 1      | TQ2              | C2    |                      | 15A                | UPDATE CA 15 IF    |        |
| 10333   |        | XA314     | 31  |        | XA320     | 25  |      |             | 168  | 9     |                | TC168P | 04     | TU152A    | 01   | 2      | TQ2              | C3    |                      | 15B                |                    |        |
| 02414   |        | XA314     | 32  |        |           |     |      |             |      |       |                | GND    | 01     |           |      |        | TQ2              |       |                      | 20B                |                    |        |
| 16750   |        | XA314     | 33  |        |           |     |      |             |      |       |                | TU152A | 02     | TU152A    | 00   | 1      | TQ2              | C3    |                      | 16B                | UPDATE CA 15 IF    |        |
| 10342   |        | XA314     | 34  |        | XA314     | 17  |      |             | 168  | 9     |                | TC168Q | 04     | TU151A    | 01   | 1      | TQ2              | C2    |                      | 16A                |                    |        |
| 10399   |        | XA314     | 35  |        |           |     |      |             |      |       |                | TC198Q | 08     | TU171A    | 01   | 1      | TQ2              | C4    |                      | 17B                |                    |        |
| 10309   |        | XA314     | 36  |        | XA322     | 40  |      |             | 168  | 9     |                | TC158P | 02     | TU151A    | 01   | 2      | TQ2              | C2    |                      | 17A                |                    |        |
| 10383   |        | XA314     | 37  |        |           |     |      |             |      |       |                | TC188Q | 08     | TU171A    | 01   | 2      | TQ2              | C4    |                      | 18B                |                    |        |
| 10324   |        | XA314     | 38  |        | XA321     | 18  |      |             | 168  | 9     |                | TC1500 | 01     | TC1500    | 00   | 1      | TQ2              | C1    |                      | 18A                | CONTROL REG BIT    |        |
| 16754   |        | XA314     | 39  |        | XA316     | 62  |      |             | 168  | 9     |                | TU171A | 02     | TU171A    | 00   | 1      | TQ2              | C4    |                      | 19B                | UPDATE CA 17 IF    |        |
| 10329   |        | XA314     | 40  |        |           |     |      |             |      |       |                | TC152A | 02     | TC1500    | 01   | 1      | TQ2              | C1    |                      | 19A                |                    |        |
| 10508   |        | XA314     | 41  |        | XA214     | 42  |      |             | 168  | 9     |                | TC288Q | 06     | TU271A    | 01   | 1      | TQ2              | D3    |                      | 22B                |                    |        |
| 10327   |        | XA314     | 42  |        |           |     |      |             |      |       |                | TC151A | 02     | TC1500    | 01   | 2      | TQ2              | C1    |                      | 20A                |                    |        |
| 10489   |        | XA314     | 43  |        | XA322     | 79  |      |             | 168  | 9     |                | TC278P | 03     | TU271A    | 01   | 2      | TQ2              | D3    |                      | 23B                |                    |        |
| 02415   |        | XA314     | 44  |        |           |     |      |             |      |       |                | GND    | 01     |           |      |        | TQ2              |       |                      | 21B                |                    |        |
| 16796   |        | XA314     | 45  |        | XA218     | 73  |      |             | 168  | 9     |                | TU271A | 01     | TU271A    | 00   | 1      | TQ2              | D3    |                      | 24B                | UPDATE CA27 IF 2   |        |
| 16792   |        | XA314     | 46  |        | XA316     | 78  |      |             | 168  | 9     |                | TU261A | 01     | TU261A    | 00   | 1      | TQ2              | D2    |                      | 21A                | UPDATE CA26 IF 2   |        |
| 10498   |        | XA314     | 47  |        | XA317     | 35  |      |             | 168  | 9     |                | TC288P | 01     | TU272A    | 01   | 1      | TQ2              | D4    |                      | 25B                |                    |        |
| 10496   |        | XA314     | 48  |        | XA314     | 49  |      |             | 168  | 9     |                | TC278Q | 06     | TU261A    | 01   | 1      | TQ2              | D2    |                      | 22A                |                    |        |
| 10497   |        | XA314     | 49  |        |           |     |      |             |      |       |                | TC278Q | 07     | TU272A    | 01   | 2      | TQ2              | D4    |                      | 26B                |                    |        |
| 10507   |        | XA314     | 50  |        | XA314     | 41  |      |             | 168  | 9     |                | TC288Q | 05     | TU261A    | 01   | 2      | TQ2              | D2    |                      | 23A                |                    |        |
| 16799   |        | XA314     | 51  |        |           |     |      |             |      |       |                | TU272A | 02     | TU272A    | 00   | 1      | TQ2              | D4    |                      | 27B                | UPDATE CA27 IF 2   |        |
| 16761   |        | XA314     | 52  |        | XA316     | 55  |      |             | 168  | 9     |                | TU181A | 01     | TU181A    | 00   | 1      | TQ2              | D1    |                      | 24A                | UPDATE CA18 IF 1   |        |
| 09487   |        | XA314     | 53  |        | XA315     | 15  |      |             | 168  | 9     |                | TCAX20 | 02     | TD191A    | 01   | 1      | TQ2              | E3    |                      | 28B                |                    |        |
| 10397   |        | XA314     | 54  |        | XA314     | 55  |      |             | 168  | 9     |                | TC198Q | 06     | TU181A    | 01   | 1      | TQ2              | D1    |                      | 25A                |                    |        |
| 10398   |        | XA314     | 55  |        | XA314     | 35  |      |             | 168  | 9     |                | TC198Q | 07     | TD191A    | 01   | 2      | TQ2              | E3    |                      | 29B                |                    |        |
| 10375   |        | XA314     | 56  |        |           |     |      |             |      |       |                | TC188P | 06     | TU181A    | 01   | 2      | TQ2              | D1    |                      | 26A                |                    |        |
| 11985   |        | XA314     | 57  |        | XA221     | 31  |      |             | 168  | 9     |                | TD191A | 01     | TD191A    | 00   | 1      | TQ2              | E3    |                      | 30B                | XFER TC19 TO TD1   |        |
| 02416   |        | XA314     | 58  |        |           |     |      |             |      |       |                | GND    | 01     |           |      |        | TQ2              |       |                      | 27A                |                    |        |
| 09437   |        | XA314     | 59  |        | XA314     | 62  |      |             | 168  | 9     |                | TCAM20 | 01     | TD192A    | 01   | 1      | TQ2              | E4    |                      | 31B                |                    |        |
| 11956   |        | XA314     | 60  |        |           |     |      |             |      |       |                | TD182A | 02     | TD182A    | 00   | 1      | TQ2              | E2    |                      | 28A                | UPDATE TC18 TO T   |        |
| 10384   |        | XA314     | 61  |        | XA320     | 76  |      |             | 168  | 9     |                | TC198P | 01     | TD192A    | 01   | 2      | TQ2              | E4    |                      | 32B                |                    |        |
| 09438   |        | XA314     | 62  |        | XA324     | 42  |      |             | 168  | 9     |                | TCAM20 | 02     | TD182A    | 01   | 1      | TQ2              | E2    |                      | 29A                |                    |        |
| CONNECTOR (XA314) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |                |        |        |           |      |        |                  |       |                      |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA314  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 198

| RECORD NUMBER | FROM   |           |                                 |    | TO     |           |     |    | WIRE        |      |       |        | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLNS | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|----|-------------|------|-------|--------|--------|--------|----------|------|--------|------------------|-------|--------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SH | PREFIX | CONNECTOR | PIN | SH | MULTI GROUP | CODE | COLOR | IDENT  |        |        |          |      |        |                  |       |                    |                    |                    |        |
| 11988         | XA314  |           | 63                              |    |        |           |     |    |             |      |       |        | TD192A | 02     | TD192A   | 00   | 1      | TQ2              | E4    |                    | 33B                | UPDATE TC19 TO T   |        |
| 16760         | XA314  |           | 64                              |    |        |           |     |    |             |      |       | TU18A0 | 02     | TD182A | 01       | 2    | TQ2    | E2               |       |                    | 30A                |                    |        |
| 13688         | XA314  |           | 65                              |    | XA314  |           | 78  |    | 16B         | 9    |       | TKAABB | 09     | TCCK3A | 01       | 1    | TQ2    | F3               |       |                    | 34B                | XFER TC18 TO TD1   |        |
| 11953         | XA314  |           | 66                              |    | XA222  |           | 43  |    | 16B         | 9    |       | TD181A | 01     | TD181A | 00       | 1    | TQ2    | E1               |       |                    | 31A                |                    |        |
| 02417         | XA314  |           | 67                              |    |        |           |     |    |             |      |       | GND    | 01     |        |          |      |        | TQ2              |       |                    | 40A                |                    |        |
| 09486         | XA314  |           | 68                              |    | XA314  |           | 53  |    | 16B         | 9    |       | TCAX20 | 01     | TD181A | 01       | 1    | TQ2    | E1               |       |                    | 32A                |                    |        |
| 09634         | XA314  |           | 69                              |    |        |           |     |    |             |      |       | TCCK3A | 05     | TCCK3A | 00       | 1    | TQ2    | F3               |       |                    | 35A                | CLK INPUT TC24-3   |        |
| 10382         | XA314  |           | 70                              |    | XA314  |           | 37  |    | 16B         | 9    |       | TC188Q | 07     | TD181A | 01       | 2    | TQ2    | E1               |       |                    | 33A                |                    |        |
| 16772         | XA314  |           | 71                              |    | XA310  |           | 53  |    | 16B         | 9    |       | TU2010 | 03     | TQB07A | 01       | 1    | TQ2    | F2               |       |                    | 36A                | Q BIT POST 07-A    |        |
| 15034         | XA314  |           | 72                              |    |        |           |     |    |             |      |       | TQB07A | 02     | TQB07A | 00       | 1    | TQ2    | F2               |       |                    | 34A                |                    |        |
| 10451         | XA314  |           | 73                              |    | XA315  |           | 76  |    | 16B         | 9    |       | TC23BQ | 05     | TQB07A | 01       | 2    | TQ2    | F2               |       |                    | 36B                | Q BIT POST 06-A    |        |
| 09708         | XA314  |           | 74                              |    | XA250  |           | 35  |    | 16B         | 9    |       | TC03A0 | 02     | TCCK3A | 01       | 2    | TQ2    | F3               |       |                    | 35B                |                    |        |
| 15026         | XA314  |           | 75                              |    | XA213  |           | 75  |    | 16B         | 9    |       | TQB06A | 01     | TQB06A | 00       | 1    | TQ2    | F1               |       |                    | 37B                | Q BIT POST 06-A    |        |
| 09707         | XA314  |           | 76                              |    | XA314  |           | 74  |    | 16B         | 9    |       | TC03A0 | 01     | TCCK4A | 01       | 1    | TQ2    | F4               |       |                    | 37A                |                    |        |
| 10444         | XA314  |           | 77                              |    | XA309  |           | 56  |    | 16B         | 9    |       | TC23BP | 05     | TQB06A | 01       | 1    | TQ2    | F1               |       |                    | 38B                |                    |        |
| 13689         | XA314  |           | 78                              |    | XA304  |           | 18  |    | 16B         | 9    |       | TKAABB | 10     | TCCK4A | 01       | 2    | TQ2    | F4               |       |                    | 38A                |                    |        |
| 16771         | XA314  |           | 79                              |    | XA314  |           | 71  |    | 16B         | 9    |       | TU2010 | 02     | TQB06A | 01       | 2    | TQ2    | F1               |       |                    | 39B                | CLK INPUT TC24-3   |        |
| 09639         | XA314  |           | 80                              |    |        |           |     |    |             |      |       | TCCK4A | 05     | TCCK4A | 00       | 1    | TQ2    | F4               |       |                    | 39A                |                    |        |
| 09469         | XA315  |           | 01                              |    | XA320  |           | 01  |    | 16B         | 9    |       | TCATCA | 05     | TCAX10 | 01       | 1    | TT3    | A2               |       |                    | 02B                | CARRY GROUPS 4-6   |        |
| 02418         | XA315  |           | 02                              |    |        |           |     |    |             |      |       | GND    | 01     |        |          |      |        | TT3              |       |                    | 01B                |                    |        |
| 10566         | XA315  |           | 03                              |    | XA315  |           | 11  |    | 16B         | 9    |       | TDAXAA | 03     | TCAX10 | 01       | 2    | TT3    | A2               |       |                    | 02A                |                    |        |
| 09416         | XA315  |           | 04                              |    | XA218  |           | 64  |    | 16B         | 9    |       | TCAI3A | 01     | TCAI3A | 00       | 1    | TT3    | A1               |       |                    | 04A                |                    |        |
| 09473         | XA315  |           | 05                              |    |        |           |     |    |             |      |       | TCAT1A | 02     | TCAX10 | 01       | 3    | TT3    | A2               |       |                    | 03B                | XFER CONTROL TC1   |        |
| 09399         | XA315  |           | 06                              |    | XA308  |           | 10  |    | 16B         | 9    |       | TCAC60 | 05     | TCAI3A | 01       | 1    | TT3    | A1               |       |                    | 05A                |                    |        |
| 09484         | XA315  |           | 07                              |    | XA314  |           | 24  |    | 16B         | 9    |       | TCAX10 | 03     | TCAX10 | 00       | 1    | TT3    | A2               |       |                    | 03A                |                    |        |
| 09392         | XA315  |           | 08                              |    | XA308  |           | 06  |    | 16B         | 9    |       | TCAC50 | 03     | TCAI3A | 01       | 2    | TT3    | A1               |       |                    | 06A                |                    |        |
| 09474         | XA315  |           | 09                              |    | XA218  |           | 66  |    | 16B         | 9    |       | TCAT2A | 01     | TCAX20 | 01       | 1    | TT3    | A3               |       |                    | 04B                | XFER CONTROL TC1   |        |
| 09384         | XA315  |           | 10                              |    | XA308  |           | 08  |    | 16B         | 9    |       | TCAC40 | 02     | TCAI3A | 01       | 3    | TT3    | A1               |       |                    | 07A                |                    |        |
| 10567         | XA315  |           | 11                              |    | XA315  |           | 17  |    | 16B         | 9    |       | TDAXAA | 04     | TCAX20 | 01       | 2    | TT3    | A3               |       |                    | 05B                |                    |        |
| 00492         | XA315  |           | 12                              |    |        |           |     |    |             |      |       | +5V    | 01     |        |          |      |        | TT3              |       |                    |                    |                    |        |
| 09468         | XA315  |           | 13                              |    | XA315  |           | 01  |    | 16B         | 9    |       | TCATCA | 04     | TCAX20 | 01       | 3    | TT3    | A3               |       |                    | 06B                | XFER CONTROL TC1   |        |
| 09478         | XA315  |           | 14                              |    | XA219  |           | 80  |    | 16B         | 9    |       | TCAT4A | 01     | TCAX40 | 01       | 1    | TT3    | B2               |       |                    | 09A                |                    |        |
| 09488         | XA315  |           | 15                              |    | XA218  |           | 17  |    | 16B         | 9    |       | TCAX20 | 03     | TCAX20 | 00       | 1    | TT3    | A3               |       |                    | 07B                |                    |        |
| 02419         | XA315  |           | 16                              |    |        |           |     |    |             |      |       | GND    | 01     |        |          |      |        | TT3              |       |                    | 21B                |                    |        |
| 10568         | XA315  |           | 17                              |    | XA315  |           | 23  |    | 16B         | 9    |       | TDAXAA | 05     | TCAX40 | 01       | 2    | TT3    | B2               |       |                    | 08B                | XFER CONTROL TC2   |        |
| 09467         | XA315  |           | 18                              |    | XA315  |           | 13  |    | 16B         | 9    |       | TCATCA | 03     | TCAX40 | 01       | 3    | TT3    | B2               |       |                    | 10A                |                    |        |
| 09494         | XA315  |           | 19                              |    | XA214  |           | 65  |    | 16B         | 9    |       | TCAX40 | 01     | TCAX40 | 00       | 1    | TT3    | B2               |       |                    | 09B                | XFER CONTROL TC2   |        |
| 09493         | XA315  |           | 20                              |    |        |           |     |    |             |      |       | TCAX30 | 04     | TCAX30 | 00       | 1    | TT3    | B1               |       |                    | 11A                |                    |        |
| 09465         | XA315  |           | 21                              |    | XA315  |           | 24  |    | 16B         | 9    |       | TCATCA | 01     | TCAX50 | 01       | 1    | TT3    | B3               |       |                    | 10B                |                    |        |
| 09477         | XA315  |           | 22                              |    |        |           |     |    |             |      |       | TCAT3A | 02     | TCAX30 | 01       | 1    | TT3    | B1               |       |                    | 12A                |                    |        |
| 10569         | XA315  |           | 23                              |    | XA315  |           | 26  |    | 16B         | 9    |       | TDAXAA | 06     | TCAX50 | 01       | 2    | TT3    | B3               |       |                    | 11B                | XFER CONTROL TC2   |        |
| 09466         | XA315  |           | 24                              |    | XA315  |           | 18  |    | 16B         | 9    |       | TCATCA | 02     | TCAX30 | 01       | 2    | TT3    | B1               |       |                    | 13A                |                    |        |
| 09481         | XA315  |           | 25                              |    |        |           |     |    |             |      |       | TCAT5A | 02     | TCAX50 | 01       | 3    | TT3    | B3               |       |                    | 12B                |                    |        |
| 10570         | XA315  |           | 26                              |    | XA334  |           | 38  |    | 16B         | 9    |       | TDAXAA | 07     | TCAX30 | 01       | 3    | TT3    | B1               |       |                    | 14A                |                    |        |
| 09501         | XA315  |           | 27                              |    |        |           |     |    |             |      |       | TCAX50 | 04     | TCAX50 | 00       | 1    | TT3    | B3               |       |                    | 13B                | XFER CONTROL TC2   |        |
| 00493         | XA315  |           | 28                              |    |        |           |     |    |             |      |       | +5V    | 01     |        |          |      |        | TT3              |       |                    |                    |                    |        |
| 16450         | XA315  |           | 29                              |    | XA315  |           | 35  |    | 16B         | 9    |       | YS28RP | 05     | TC162A | 01       | 1    | TT3    | C2               |       |                    | 14B                |                    |        |
| 09698         | XA315  |           | 30                              |    | XA315  |           | 33  |    | 16B         | 9    |       | TC02A0 | 01     | TC162A | 01       | 2    | TT3    | C2               |       |                    | 15A                |                    |        |
| CONNECTOR     | XA315  |           | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |    |             |      |       |        |        |        |          |      |        |                  |       |                    |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA315  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 199

| RECORD NUMBER | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SPEC MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|-----------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR |           |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 10351         |        | XA315     | 31  |        | XA320     | 43  |       |             | 16B  | 9     |           | TC162A  | 01     | TC162A   | 00   | 1      | TT3              | C2    |                     | 15B                | TD16 TO TC16 XFE   |        |
| 02420         |        | XA315     | 32  |        |           |     |       |             |      |       |           | GND     | 01     |          |      |        | TT3              |       |                     | 27A                |                    |        |
| 09699         |        | XA315     | 33  |        | XA320     | 56  |       |             | 16B  | 9     |           | TC02A0  | 02     | TC172A   | 01   | 1      | TT3              | C3    |                     | 16B                |                    |        |
| 11862         |        | XA315     | 34  |        | XA407     | 03  |       |             | 16B  | 9     |           | TD16BQ  | 06     | TC162A   | 01   | 3      | TT3              | C2    |                     | 16A                |                    |        |
| 16451         |        | XA315     | 35  |        | XA315     | 40  |       |             | 16B  | 9     |           | TS28BP  | 06     | TC172A   | 01   | 2      | TT3              | C3    |                     | 17B                |                    |        |
| 10328         |        | XA315     | 36  |        | XA314     | 40  |       |             | 16B  | 9     |           | TC152A  | 01     | TC152A   | 00   | 1      | TT3              | C1    |                     | 17A                | TD15 TO TC15 XFE   |        |
| 11900         |        | XA315     | 37  |        |           |     |       |             |      |       |           | TD17BQ  | 07     | TC172A   | 01   | 3      | TT3              | C3    |                     | 18B                |                    |        |
| 09646         |        | XA315     | 38  |        | XA327     | 11  |       |             | 16B  | 9     |           | TC01B0  | 01     | TC152A   | 00   | 1      | TT3              | C1    |                     | 18A                |                    |        |
| 10368         |        | XA315     | 39  |        | XA320     | 49  |       |             | 16B  | 9     |           | TC172A  | 01     | TC172A   | 00   | 1      | TT3              | C3    |                     | 19B                | TD17 TO TC17 XFE   |        |
| 16452         |        | XA315     | 40  |        |           |     |       |             |      |       |           | TS28BP  | 07     | TC152A   | 01   | 2      | TT3              | C1    |                     | 19A                |                    |        |
| 10448         |        | XA315     | 41  |        | XA309     | 41  |       |             | 16B  | 9     |           | TC23BQ  | 02     | TCAC4A   | 01   | 1      | TT3              | D2    |                     | 22B                |                    |        |
| 11830         |        | XA315     | 42  |        |           |     |       |             |      |       |           | TD15BQ  | 07     | TC152A   | 01   | 3      | TT3              | C1    |                     | 20A                |                    |        |
| 09382         |        | XA315     | 43  |        |           |     |       |             |      |       |           | TCAC4A  | 03     | TCAC4A   | 00   | 1      | TT3              | D2    |                     | 23B                | TC CARRY GP4 FOR   |        |
| 02421         |        | XA315     | 44  |        |           |     |       |             |      |       |           | GND     | 01     |          |      |        | TT3              |       |                     | 40A                |                    |        |
| 10495         |        | XA315     | 45  |        | XA314     | 48  |       |             | 16B  | 9     |           | TC27BQ  | 05     | TCAC5A   | 01   | 1      | TT3              | D3    |                     | 24B                |                    |        |
| 10459         |        | XA315     | 46  |        | XA314     | 07  |       |             | 16B  | 9     |           | TC24BQ  | 01     | TCAC4A   | 01   | 2      | TT3              | D2    |                     | 21A                |                    |        |
| 10506         |        | XA315     | 47  |        | XA314     | 50  |       |             | 16B  | 9     |           | TC28BQ  | 04     | TCAC5A   | 01   | 2      | TT3              | D3    |                     | 25B                |                    |        |
| 10471         |        | XA315     | 48  |        | XA314     | 04  |       |             | 16B  | 9     |           | TC25BQ  | 01     | TCAC4A   | 01   | 3      | TT3              | D2    |                     | 22A                |                    |        |
| 10483         |        | XA315     | 49  |        | XA317     | 25  |       |             | 16B  | 9     |           | TC26BQ  | 02     | TCAC5A   | 01   | 3      | TT3              | D3    |                     | 26B                |                    |        |
| 16811         |        | XA315     | 50  |        |           |     |       |             |      |       |           | TU30A0  | 02     | TU30A0   | 00   | 1      | TT3              | D1    |                     | 23A                | UPDATE CA30 IF 3   |        |
| 09389         |        | XA315     | 51  |        |           |     |       |             |      |       |           | TCAC5A  | 03     | TCAC5A   | 00   | 1      | TT3              | D3    |                     | 27B                | TC CARRY GP5 FOR   |        |
| 16812         |        | XA315     | 52  |        | XA326     | 69  |       |             | 16B  | 9     |           | TU301A  | 01     | TU30A0   | 01   | 1      | TT3              | D1    |                     | 24A                |                    |        |
| 09078         |        | XA315     | 53  |        | XA151     | 25  |       |             | 16B  | 9     |           | TBMACQ  | 02     | TMHRSA   | 01   | 1      | TT3              | E2    |                     | 28B                |                    |        |
| 16815         |        | XA315     | 54  |        |           |     |       |             |      |       |           | TU302A  | 02     | TU30A0   | 01   | 2      | TT3              | D1    |                     | 25A                |                    |        |
| 14126         |        | XA315     | 55  |        | XA251     | 22  |       |             | 16B  | 9     |           | TMHRSA  | 01     | TMHRSA   | 00   | 1      | TT3              | E2    |                     | 29B                | RESET MEM HOLD     |        |
| 16817         |        | XA315     | 56  |        |           |     |       |             |      |       |           | TU303A  | 02     | TU30A0   | 01   | 3      | TT3              | D1    |                     | 26A                |                    |        |
| 14158         |        | XA315     | 57  |        | XA205     | 43  |       |             | 16B  | 9     |           | TMPE1A  | 02     | TPEMBA   | 01   | 1      | TT3              | E3    |                     | 30B                |                    |        |
| 02422         |        | XA315     | 58  |        |           |     |       |             |      |       |           | GND     | 01     |          |      |        | TT3              |       |                     | 40B                |                    |        |
| 12427         |        | XA315     | 59  |        | XA217     | 61  |       |             | 16B  | 9     |           | Y032BQ  | 02     | TPEMBA   | 01   | 2      | TT3              | E3    |                     | 31B                |                    |        |
| 20219         |        | XA315     | 60  |        | XA421     | 65  |       |             | 16B  | 9     |           | YSN2CTX | 06     | TMHRSA   | 01   | 2      | TT3              | E2    |                     | 28A                |                    |        |
| 17103         |        | XA315     | 61  |        |           |     |       |             |      |       |           | T03P10  | 02     | TPEMBA   | 01   | 3      | TT3              | E3    |                     | 32B                |                    |        |
| 08385         |        | XA315     | 62  |        | XA317     | 66  |       |             | 16B  | 9     |           | TADABP  | 02     | TMHRSA   | 01   | 3      | TT3              | E2    |                     | 29A                |                    |        |
| 14660         |        | XA315     | 63  |        | XA208     | 48  |       |             | 16B  | 9     |           | TPEMBA  | 01     | TPEMBA   | 00   | 1      | TT3              | E3    |                     | 33B                | BITS 0-31 ODD PA   |        |
| 11396         |        | XA315     | 64  |        | XA228     | 26  |       |             | 16B  | 9     |           | TD022A  | 01     | TD022A   | 00   | 1      | TT3              | E1    |                     | 30A                | UPDATE TC02 TO T   |        |
| 10419         |        | XA315     | 65  |        | XA315     | 78  |       |             | 16B  | 9     |           | TC21BQ  | 02     | TQBD4A   | 01   | 1      | TT3              | F2    |                     | 34B                |                    |        |
| 08957         |        | XA315     | 66  |        | XA326     | 42  |       |             | 16B  | 9     |           | TBLM20  | 01     | TD022A   | 01   | 1      | TT3              | E1    |                     | 31A                |                    |        |
| 02423         |        | XA315     | 67  |        |           |     |       |             |      |       |           | GND     | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 16711         |        | XA315     | 68  |        |           |     |       |             |      |       |           | TU0220  | 02     | TD022A   | 01   | 2      | TT3              | E1    |                     | 32A                |                    |        |
| 10429         |        | XA315     | 69  |        | XA309     | 54  |       |             | 16B  | 9     |           | TC22BP  | 05     | TQBD5A   | 01   | 1      | TT3              | F3    |                     | 35A                |                    |        |
| 16708         |        | XA315     | 70  |        | XA327     | 04  |       |             | 16B  | 9     |           | TU021A  | 01     | TD022A   | 01   | 3      | TT3              | E1    |                     | 33A                |                    |        |
| 10428         |        | XA315     | 71  |        | XA315     | 69  |       |             | 16B  | 9     |           | TC22BP  | 04     | TQBD4A   | 01   | 2      | TT3              | F2    |                     | 36A                |                    |        |
| 10443         |        | XA315     | 72  |        | XA314     | 77  |       |             | 16B  | 9     |           | TC23BP  | 04     | TQBD4A   | 01   | 3      | TT3              | F2    |                     | 34A                |                    |        |
| 14636         |        | XA315     | 73  |        |           |     |       |             |      |       |           | SPO     | 03     |          | 00   | 1      | TT3              | F1    |                     | 36B                | PE (S4+S8+S10+S11) | D03    |
| 15012         |        | XA315     | 74  |        | XA213     | 74  |       |             | 16B  | 9     |           | TQBD4A  | 01     | TQBD4A   | 00   | 1      | TT3              | F2    |                     | 35B                | Q BIT POST 04-A    |        |
| 16507         |        | XA315     | 75  |        | XA305     | 61  |       |             | 16B  | 9     |           | SPI022  | 05     |          | 01   | 1      | TT3              | F1    |                     | 37B                |                    | D03    |
| 10452         |        | XA315     | 76  |        | XA321     | 74  |       |             | 16B  | 9     |           | TC23BQ  | 06     | TQBD5A   | 01   | 2      | TT3              | F3    |                     | 37A                |                    |        |
| 14331         |        | XA315     | 77  |        | XA304     | 62  |       |             | 16B  | 9     |           | SPI021  | 30     |          | 01   | 2      | TT3              | F1    |                     | 38B                |                    | D03    |
| 10420         |        | XA315     | 78  |        | XA320     | 73  |       |             | 16B  | 9     |           | TC21BQ  | 03     | TQBD5A   | 01   | 3      | TT3              | F3    |                     | 38A                |                    |        |
| 14687         |        | XA315     | 79  |        |           |     |       |             |      |       |           | SPI004  | 38     |          | 01   | 3      | TT3              | F1    |                     | 39B                |                    | D03    |
| 15019         |        | XA315     | 80  |        | XA213     | 76  |       |             | 16B  | 9     |           | TQBD5A  | 01     | TQBD5A   | 00   | 1      | TT3              | F3    |                     | 39A                | Q BIT POST 05-A    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA316  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 200

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GRP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|------|------|------------------|-----|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |        |          |      |      |                  |     |                     |                    |                    |        |
| 08505   |        | XA316     | 01  |        | XA310     | 06  |      | 16B         | 9    |       | TAW40A | 01     | TAW40A   | 00   | 1    | TQ2              | A2  |                     | 02B                | WRITE BIT0 PAGE    |        |
| 02424   |        | XA316     | 02  |        |           |     |      |             |      |       | GND    | 01     |          |      |      | TQ2              |     |                     | 01A                |                    |        |
| 08453   |        | XA316     | 03  |        | XA316     | 05  |      | 16B         | 9    |       | TAWP00 | 01     | TAW01A   | 01   | 1    | TQ2              | A3  |                     | 02A                |                    |        |
| 10457   |        | XA316     | 04  |        | XA314     | 05  |      | 16B         | 9    |       | TC248P | 03     | TAW40A   | 01   | 1    | TQ2              | A2  |                     | 04A                |                    |        |
| 08454   |        | XA316     | 05  |        | XA316     | 13  |      | 16B         | 9    |       | TAWP00 | 02     | TAW40A   | 01   | 2    | TQ2              | A2  |                     | 03B                |                    |        |
| 08474   |        | XA316     | 06  |        |           |     |      |             |      |       | TAW00A | 02     | TAW00A   | 00   | 1    | TQ2              | A1  |                     | 05A                | WRITE1 BIT 0 PAG   |        |
| 10474   |        | XA316     | 07  |        | XA317     | 07  |      | 16B         | 9    |       | TC258Q | 04     | TAW01A   | 01   | 2    | TQ2              | A3  |                     | 03A                |                    |        |
| 10463   |        | XA316     | 08  |        | XA221     | 77  |      | 16B         | 9    |       | TC248Q | 05     | TAW00A   | 01   | 1    | TQ2              | A1  |                     | 06A                |                    |        |
| 08477   |        | XA316     | 09  |        | XA310     | 04  |      | 16B         | 9    |       | TAW01A | 01     | TAW01A   | 03   | 1    | TQ2              | A3  |                     | 04B                | WRITE1 BIT1 PAGE   |        |
| 08456   |        | XA316     | 10  |        | XA324     | 57  |      | 16B         | 9    |       | TAWP00 | 04     | TAW00A   | 01   | 2    | TQ2              | A1  |                     | 07A                |                    |        |
| 10468   |        | XA316     | 11  |        | XA314     | 03  |      | 16B         | 9    |       | TC258P | 03     | TAW41A   | 01   | 1    | TQ2              | A4  |                     | 05B                |                    |        |
| 00494   |        | XA316     | 12  |        |           |     |      |             |      |       | +5V    | 01     |          |      |      | TQ2              |     |                     |                    |                    |        |
| 08455   |        | XA316     | 13  |        | XA316     | 10  |      | 16B         | 9    |       | TAWP00 | 03     | TAW41A   | 01   | 2    | TQ2              | A4  |                     | 06B                |                    |        |
| 08513   |        | XA316     | 14  |        | XA310     | 23  |      | 16B         | 9    |       | TAW50A | 01     | TAW50A   | 00   | 1    | TQ2              | B2  |                     | 09A                | WRITE0 BIT0 PAGE   |        |
| 08509   |        | XA316     | 15  |        | XA310     | 05  |      | 16B         | 9    |       | TAW41A | 01     | TAW41A   | 00   | 1    | TQ2              | A4  |                     | 07B                | WRITE0 BIT1 PAGE   |        |
| 02425   |        | XA316     | 16  |        |           |     |      |             |      |       | GND    | 01     |          |      |      | TQ2              |     |                     | 01B                |                    |        |
| 08459   |        | XA316     | 17  |        | XA316     | 20  |      | 16B         | 9    |       | TAWP10 | 02     | TAW11A   | 01   | 1    | TQ2              | B3  |                     | 08B                |                    |        |
| 10480   |        | XA316     | 18  |        | XA221     | 71  |      | 16B         | 9    |       | TC268P | 03     | TAW50A   | 01   | 1    | TQ2              | B2  |                     | 10A                |                    |        |
| 10494   |        | XA316     | 19  |        | XA315     | 45  |      | 16B         | 9    |       | TC278Q | 04     | TAW11A   | 01   | 2    | TQ2              | B3  |                     | 09B                |                    |        |
| 08460   |        | XA316     | 20  |        | XA316     | 26  |      | 16B         | 9    |       | TAWP10 | 03     | TAW50A   | 01   | 2    | TQ2              | B2  |                     | 11A                |                    |        |
| 08485   |        | XA316     | 21  |        | XA310     | 20  |      | 16B         | 9    |       | TAW11A | 01     | TAW11A   | 00   | 1    | TQ2              | B3  |                     | 10B                | WRITE1 BIT1 PAGE   |        |
| 08481   |        | XA316     | 22  |        | XA310     | 22  |      | 16B         | 9    |       | TAW10A | 01     | TAW10A   | 00   | 1    | TQ2              | B1  |                     | 12A                | WRITE1 BIT0 PAGE   |        |
| 08458   |        | XA316     | 23  |        | XA316     | 17  |      | 16B         | 9    |       | TAWP10 | 01     | TAW51A   | 01   | 1    | TQ2              | B4  |                     | 11B                |                    |        |
| 10485   |        | XA316     | 24  |        | XA214     | 26  |      | 16B         | 9    |       | TC268Q | 04     | TAW10A   | 01   | 1    | TQ2              | B1  |                     | 13A                |                    |        |
| 10488   |        | XA316     | 25  |        | XA314     | 43  |      | 16B         | 9    |       | TC278P | 02     | TAW51A   | 01   | 2    | TQ2              | B4  |                     | 12B                |                    |        |
| 08461   |        | XA316     | 26  |        | XA324     | 63  |      | 16B         | 9    |       | TAWP10 | 04     | TAW10A   | 01   | 2    | TQ2              | B1  |                     | 14A                |                    |        |
| 08517   |        | XA316     | 27  |        | XA310     | 17  |      | 16B         | 9    |       | TAW51A | 01     | TAW51A   | 00   | 1    | TQ2              | B4  |                     | 13B                | WRITE0 BIT1 PAGE   |        |
| 00495   |        | XA316     | 28  |        |           |     |      |             |      |       | +5V    | 01     |          |      |      | TQ2              |     |                     |                    |                    |        |
| 10515   |        | XA316     | 29  |        | XA317     | 31  |      | 16B         | 9    |       | TC298Q | 02     | TAW21A   | 01   | 1    | TQ2              | C3  |                     | 14B                |                    |        |
| 08521   |        | XA316     | 30  |        | XA310     | 35  |      | 16B         | 9    |       | TAW60A | 01     | TAW60A   | 00   | 1    | TQ2              | C2  |                     | 15A                | WRITE0 BIT0 PAGE   |        |
| 08463   |        | XA316     | 31  |        | XA316     | 37  |      | 16B         | 9    |       | TAWP20 | 01     | TAW21A   | 01   | 2    | TQ2              | C3  |                     | 15B                |                    |        |
| 02426   |        | XA316     | 32  |        |           |     |      |             |      |       | GND    | 01     |          |      |      | TQ2              |     |                     | 20B                |                    |        |
| 08493   |        | XA316     | 33  |        | XA310     | 36  |      | 16B         | 9    |       | TAW21A | 01     | TAW21A   | 00   | 1    | TQ2              | C3  |                     | 16B                | WRITE1 BIT1 PAGE   |        |
| 10500   |        | XA316     | 34  |        | XA221     | 79  |      | 16B         | 9    |       | TC288P | 03     | TAW60A   | 01   | 1    | TQ2              | C2  |                     | 16A                |                    |        |
| 10510   |        | XA316     | 35  |        | XA317     | 33  |      | 16B         | 9    |       | TC298P | 01     | TAW61A   | 01   | 1    | TQ2              | C4  |                     | 17B                |                    |        |
| 08465   |        | XA316     | 36  |        | XA316     | 42  |      | 16B         | 9    |       | TAWP20 | 03     | TAW60A   | 01   | 2    | TQ2              | C2  |                     | 17A                |                    |        |
| 08464   |        | XA316     | 37  |        | XA316     | 36  |      | 16B         | 9    |       | TAWP20 | 02     | TAW61A   | 01   | 2    | TQ2              | C4  |                     | 18B                |                    |        |
| 08489   |        | XA316     | 38  |        | XA310     | 38  |      | 16B         | 9    |       | TAW20A | 01     | TAW20A   | 00   | 1    | TQ2              | C1  |                     | 18A                | WRITE1 BIT0 PAGE   |        |
| 08525   |        | XA316     | 39  |        | XA310     | 29  |      | 16B         | 9    |       | TAW61A | 01     | TAW61A   | 00   | 1    | TQ2              | C4  |                     | 19B                | WRITE0 BIT1 PAGE   |        |
| 10505   |        | XA316     | 40  |        | XA315     | 47  |      | 16B         | 9    |       | TC288Q | 03     | TAW20A   | 01   | 1    | TQ2              | C1  |                     | 19A                |                    |        |
| 08472   |        | XA316     | 41  |        |           |     |      |             |      |       | TAWP30 | 05     | TAW31A   | 01   | 1    | TQ2              | D3  |                     | 22B                |                    |        |
| 08466   |        | XA316     | 42  |        | XA324     | 77  |      | 16B         | 9    |       | TAWP20 | 04     | TAW20A   | 01   | 2    | TQ2              | C1  |                     | 20A                |                    |        |
| 10548   |        | XA316     | 43  |        | XA317     | 43  |      | 16B         | 9    |       | TC318Q | 03     | TAW31A   | 01   | 2    | TQ2              | D3  |                     | 23B                |                    |        |
| 02427   |        | XA316     | 44  |        |           |     |      |             |      |       | GND    | 01     |          |      |      | TQ2              |     |                     | 21B                |                    |        |
| 08501   |        | XA316     | 45  |        | XA310     | 41  |      | 16B         | 9    |       | TAW31A | 01     | TAW31A   | 00   | 1    | TQ2              | O3  |                     | 24B                | WRITE1 BIT1 PAGE   |        |
| 08529   |        | XA316     | 46  |        | XA310     | 50  |      | 16B         | 9    |       | TAW70A | 01     | TAW70A   | 00   | 1    | TQ2              | O2  |                     | 21A                | WRITE0 BIT0 PAGE   |        |
| 10538   |        | XA316     | 47  |        | XA317     | 45  |      | 16B         | 9    |       | TC318P | 02     | TAW71A   | 01   | 1    | TQ2              | O4  |                     | 25B                |                    |        |
| 10526   |        | XA316     | 48  |        | XA309     | 69  |      | 16B         | 9    |       | TC308P | 05     | TAW70A   | 01   | 1    | TQ2              | O2  |                     | 22A                |                    |        |
| 08471   |        | XA316     | 49  |        | XA316     | 41  |      | 16B         | 9    |       | TAWP30 | 04     | TAW71A   | 01   | 2    | TQ2              | O4  |                     | 26B                |                    |        |
| 08470   |        | XA316     | 50  |        | XA316     | 49  |      | 16B         | 9    |       | TAWP30 | 03     | TAW70A   | 01   | 2    | TQ2              | O2  |                     | 23A                |                    |        |
| CONNECTOR XA316 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |        |          |      |      |                  |     |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA316  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 201

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 08533   |        | XA316     | 51  |      |        | XA310     | 45  |      |             |      |       |       | TAW71A | 01     | TAW71A   | 00   | 1      | TQ2              | D4    |                     | 27B                | WRITE0 BIT1 PAGE   |        |
| 08497   |        | XA316     | 52  |      |        | XA310     | 52  |      |             |      |       |       | TAW30A | 01     | TAW30A   | 00   | 1      | TQ2              | D1    |                     | 24A                | WRITE1.BITO PAGE   |        |
| 16764   |        | XA316     | 53  |      |        |           |     |      |             |      |       |       | TU182A | 02     | TU18A0   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 10529   |        | XA316     | 54  |      |        | XA317     | 49  |      |             |      |       |       | TC30RQ | 02     | TAW30A   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 16762   |        | XA316     | 55  |      |        |           |     |      |             |      |       |       | TU181A | 02     | TU18A0   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 08469   |        | XA316     | 56  |      |        | XA316     | 50  |      |             |      |       |       | TAWP30 | 02     | TAW30A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 16759   |        | XA316     | 57  |      |        | XA314     | 64  |      |             |      |       |       | TU18A0 | 01     | TU18A0   | 00   | 1      | TQ2              | E3    |                     | 30B                | UPDATE CA18 IF 1   |        |
| 02428   |        | XA316     | 58  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 10404   |        | XA316     | 59  |      |        |           |     |      |             |      |       |       | TC20BP | 05     | TU20A0   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 16752   |        | XA316     | 60  |      |        |           |     |      |             |      |       |       | TU17A0 | 02     | TU17A0   | 00   | 1      | TQ2              | E2    |                     | 28A                | UPDATE CA 17 IF    |        |
| 16768   |        | XA316     | 61  |      |        | XA310     | 51  |      |             |      |       |       | TU201A | 02     | TU20A0   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 16755   |        | XA316     | 62  |      |        |           |     |      |             |      |       |       | TU171A | 03     | TU17A0   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 16766   |        | XA316     | 63  |      |        |           |     |      |             |      |       |       | TU20A0 | 02     | TU20A0   | 00   | 1      | TQ2              | E4    |                     | 33B                | UPDATE CA20 IF 2   |        |
| 10357   |        | XA316     | 64  |      |        |           |     |      |             |      |       |       | TC17BP | 05     | TU17A0   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 16787   |        | XA316     | 65  |      |        |           |     |      |             |      |       |       | TU241A | 02     | TU24A0   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 16746   |        | XA316     | 66  |      |        |           |     |      |             |      |       |       | TU15A0 | 02     | TU15A0   | 00   | 1      | TQ2              | E1    |                     | 31A                | UPDATE CA 15 IF    |        |
| 02429   |        | XA316     | 67  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 16749   |        | XA316     | 68  |      |        | XA314     | 33  |      |             |      |       |       | TU152A | 01     | TU15A0   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 16785   |        | XA316     | 69  |      |        |           |     |      |             |      |       |       | TU24A0 | 02     | TU24A0   | 00   | 1      | TQ2              | F3    |                     | 35A                | UPDATE CA24 IF 2   |        |
| 16748   |        | XA316     | 70  |      |        |           |     |      |             |      |       |       | TU151A | 02     | TU15A0   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 10442   |        | XA316     | 71  |      |        | XA315     | 72  |      |             |      |       |       | TC23BP | 03     | TU23A0   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 16781   |        | XA316     | 72  |      |        |           |     |      |             |      |       |       | TU23A0 | 02     | TU23A0   | 00   | 1      | TQ2              | F2    |                     | 34A                | UPDATE CA23 IF 2   |        |
| 16783   |        | XA316     | 73  |      |        |           |     |      |             |      |       |       | TU231A | 02     | TU23A0   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 16768   |        | XA316     | 74  |      |        | XA314     | 09  |      |             |      |       |       | TU242A | 01     | TU24A0   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 16775   |        | XA316     | 75  |      |        |           |     |      |             |      |       |       | TU21A0 | 02     | TU21A0   | 00   | 1      | TQ2              | F1    |                     | 37B                | UPDATE CA21 IF 2   |        |
| 10478   |        | XA316     | 76  |      |        | XA317     | 23  |      |             |      |       |       | TC26BP | 01     | TU26A0   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 16777   |        | XA316     | 77  |      |        |           |     |      |             |      |       |       | TU211A | 02     | TU21A0   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 16793   |        | XA316     | 78  |      |        |           |     |      |             |      |       |       | TU261A | 02     | TU26A0   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 16778   |        | XA316     | 79  |      |        | XA320     | 72  |      |             |      |       |       | TU212A | 01     | TU21A0   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 16791   |        | XA316     | 80  |      |        |           |     |      |             |      |       |       | TU26A0 | 02     | TU26A0   | 00   | 1      | TQ2              | F4    |                     | 39A                | UPDATE CA26 IF 2   |        |
| 09630   |        | XA317     | 01  |      |        | XA317     | 10  |      |             |      |       |       | TCCK3A | 01     | TC258N   | 01   | 1      | TDD              | BN    |                     | 02B                |                    |        |
| 02430   |        | XA317     | 02  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 01B                |                    |        |
| 04998   |        | XA317     | 03  |      |        | XA317     | 17  |      |             |      |       |       | SPI004 | 33     | TC259Q   | 01   | 1      | TDD              | BQ    |                     | 02A                |                    |        |
| 05451   |        | XA317     | 04  |      |        | XA317     | 20  |      |             |      |       |       | SPI020 | 24     | TC258P   | 01   | 1      | TDD              | BP    |                     | 04A                |                    |        |
| 12182   |        | XA317     | 05  |      |        | XA420     | 13  |      |             |      |       |       | TD258Q | 06     | TC258I   | 01   | 1      | TDD              | BI    |                     | 03B                |                    |        |
| 05556   |        | XA317     | 06  |      |        | XA317     | 22  |      |             |      |       |       | SPI024 | 10     | TC248P   | 01   | 1      | TDD              | AP    |                     | 05A                |                    |        |
| 10475   |        | XA317     | 07  |      |        | XA221     | 78  |      |             |      |       |       | TC258Q | 05     | TC258Q   | 00   | 1      | TDD              | BQ    |                     | 03A                | CONTROL REG BIT    |        |
| 12145   |        | XA317     | 08  |      |        | XA420     | 11  |      |             |      |       |       | TD248Q | 06     | TC248I   | 01   | 1      | TDD              | AI    |                     | 06A                |                    |        |
| 10467   |        | XA317     | 09  |      |        | XA316     | 11  |      |             |      |       |       | TC258P | 02     | TC258P   | 00   | 1      | TDD              | BP    |                     | 04B                | CONTROL REG BIT    |        |
| 09631   |        | XA317     | 10  |      |        | XA317     | 14  |      |             |      |       |       | TCCK3A | 02     | TC248N   | 01   | 1      | TDD              | AN    |                     | 07A                |                    |        |
| 10456   |        | XA317     | 11  |      |        | XA316     | 04  |      |             |      |       |       | TC248P | 02     | TC248P   | 00   | 1      | TDD              | AP    |                     | 05B                | CONTROL REG BIT    |        |
| 02496   |        | XA317     | 12  |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | TDD              |       |                     |                    |                    |        |
| 10462   |        | XA317     | 13  |      |        | XA316     | 08  |      |             |      |       |       | TC248Q | 04     | TC248Q   | 00   | 1      | TDD              | AQ    |                     | 06B                | CONTROL REG BIT    |        |
| 09632   |        | XA317     | 14  |      |        | XA317     | 26  |      |             |      |       |       | TCCK3A | 03     | TC27BN   | 01   | 1      | TDD              | DN    |                     | 09A                |                    |        |
| 05607   |        | XA317     | 15  |      |        | XA121     | 17  |      |             |      |       |       | SPI025 | 35     | TC248Q   | 01   | 1      | TDD              | AQ    |                     | 07B                |                    |        |
| 02431   |        | XA317     | 16  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 20B                |                    |        |
| 04999   |        | XA317     | 17  |      |        | XA317     | 29  |      |             |      |       |       | SPI004 | 34     | TC27BQ   | 01   | 1      | TDD              | DQ    |                     | 08B                |                    |        |
| 12254   |        | XA317     | 18  |      |        | XA217     | 19  |      |             |      |       |       | TD27BQ | 02     | TC27BI   | 01   | 1      | TDD              | D1    |                     | 10A                |                    |        |
| CONNECTOR (XA317) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA317  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 202

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |     | WIRE        |      |       |       | SIGNAL | SQ NO | EQUATION | TERM | FACTOR | CAT OR TRIP TYPE | UNIP | LOCAL OR REMOTE P.L. NO. | TEST POINTS LOCATION | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|-----|-------------|------|-------|-------|--------|-------|----------|------|--------|------------------|------|--------------------------|----------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SMTC | PREFIX | CONNECTOR | PIN | USE | MULTI GROUP | CODE | CULDN | IDENT |        |       |          |      |        |                  |      |                          |                      |                    |        |
| 10493   |        | XA317     | 19  |      | XA316  | 19        |     |     | 168         | 9    |       |       | TC279Q | 03    | TC278Q   | 00   | I      | TDD              | DQ   |                          | 09B                  | CONTROL REG BIT    |        |
| 05452   |        | XA317     | 20  |      | XA317  | 36        |     |     | 168         | 9    |       |       | SPI020 | 25    | TC278P   | 01   | I      | TDD              | DP   |                          | 11A                  |                    |        |
| 10487   |        | XA317     | 21  |      | XA316  | 25        |     |     | 168         | 9    |       |       | TC278P | 01    | TC278P   | 00   | I      | TDD              | DP   |                          | 10B                  | CONTROL REG BIT    |        |
| 05557   |        | XA317     | 22  |      | XA317  | 38        |     |     | 168         | 9    |       |       | SPI024 | 11    | TC268P   | 01   | I      | TDD              | CP   |                          | 12A                  |                    |        |
| 10479   |        | XA317     | 23  |      | XA316  | 18        |     |     | 168         | 9    |       |       | TC268P | 02    | TC268P   | 00   | I      | TDD              | CP   |                          | 11B                  | CONTROL REG BIT    |        |
| 12219   |        | XA317     | 24  |      | XA420  | 08        |     |     | 168         | 9    |       |       | TD268Q | 06    | TC268I   | 01   | I      | TDD              | CI   |                          | 13A                  |                    |        |
| 10484   |        | XA317     | 25  |      | XA316  | 24        |     |     | 168         | 9    |       |       | TC268Q | 03    | TC268Q   | 00   | I      | TDD              | CQ   |                          | 12B                  | CONTROL REG BIT    |        |
| 09633   |        | XA317     | 26  |      | XA314  | 69        |     |     | 168         | 9    |       |       | TCCK3A | 04    | TC268N   | 01   | I      | TDD              | CN   |                          | 14A                  |                    |        |
| 05606   |        | XA317     | 27  |      | XA317  | 15        |     |     | 168         | 9    |       |       | SPI025 | 34    | TC268Q   | 01   | I      | TDD              | CQ   |                          | 13B                  |                    |        |
| 00497   |        | XA317     | 28  |      |        |           |     |     |             |      |       |       | +5V    | 01    |          |      |        | TDD              |      |                          |                      |                    |        |
| 05000   |        | XA317     | 29  |      | XA317  | 41        |     |     | 168         | 9    |       |       | SP1004 | 35    | TC298Q   | 01   | I      | TDD              | FQ   |                          | 14B                  |                    |        |
| 09635   |        | XA317     | 30  |      | XA317  | 42        |     |     | 168         | 9    |       |       | TCCK4A | 01    | TC298N   | 01   | I      | TDD              | FN   |                          | 15A                  |                    |        |
| 10516   |        | XA317     | 31  |      | XA319  | 56        |     |     | 168         | 9    |       |       | TC298Q | 03    | TC298Q   | 00   | I      | TDD              | FQ   |                          | 15B                  | CONTROL REG BIT    |        |
| 02432   |        | XA317     | 32  |      |        |           |     |     |             |      |       |       | GND    | 01    |          |      |        | TDD              |      |                          | 21B                  |                    |        |
| 10511   |        | XA317     | 33  |      | XA319  | 48        |     |     | 168         | 9    |       |       | TC298P | 02    | TC298P   | 00   | I      | TDD              | FP   |                          | 16B                  | CONTROL REG BIT    |        |
| 12324   |        | XA317     | 34  |      | XA217  | 31        |     |     | 168         | 9    |       |       | TD298Q | 02    | TC298I   | 01   | I      | TDD              | FI   |                          | 16A                  |                    |        |
| 10499   |        | XA317     | 35  |      | XA316  | 34        |     |     | 168         | 9    |       |       | TC288P | 02    | TC288P   | 00   | I      | TDD              | EP   |                          | 17B                  | CONTROL REG BIT    |        |
| 05453   |        | XA317     | 36  |      | XA317  | 50        |     |     | 168         | 9    |       |       | SPI020 | 26    | TC298P   | 01   | I      | TDD              | FP   |                          | 17A                  |                    |        |
| 10504   |        | XA317     | 37  |      | XA316  | 40        |     |     | 168         | 9    |       |       | TC288Q | 02    | TC288Q   | 00   | I      | TDD              | EQ   |                          | 18B                  | CONTROL REG BIT    |        |
| 05558   |        | XA317     | 38  |      | XA317  | 52        |     |     | 168         | 9    |       |       | SPI024 | 12    | TC288P   | 01   | I      | TDD              | EP   |                          | 18A                  |                    |        |
| 05605   |        | XA317     | 35  |      | XA317  | 27        |     |     | 168         | 9    |       |       | SPI025 | 33    | TC288Q   | 01   | I      | TDD              | FQ   |                          | 19B                  |                    |        |
| 12293   |        | XA317     | 40  |      | XA420  | 31        |     |     | 168         | 9    |       |       | TD288Q | 06    | TC288I   | 01   | I      | TDD              | EI   |                          | 19A                  |                    |        |
| 05001   |        | XA317     | 41  |      | XA317  | 72        |     |     | 168         | 9    |       |       | SP1004 | 36    | TC318Q   | 01   | I      | TDD              | HQ   |                          | 22B                  |                    |        |
| 09636   |        | XA317     | 42  |      | XA317  | 46        |     |     | 168         | 9    |       |       | TCCK4A | 02    | TC288N   | 01   | I      | TDD              | EN   |                          | 20A                  |                    |        |
| 10549   |        | XA317     | 43  |      | XA319  | 34        |     |     | 168         | 9    |       |       | TC318Q | 04    | TC318Q   | 00   | I      | TDD              | HQ   |                          | 23B                  | CONTROL REG BIT    |        |
| 02433   |        | XA317     | 44  |      |        |           |     |     |             |      |       |       | GND    | 01    |          |      |        | TDD              |      |                          | 27A                  |                    |        |
| 10539   |        | XA317     | 45  |      | XA319  | 57        |     |     | 168         | 9    |       |       | TC318P | 03    | TC318P   | 00   | I      | TDD              | HP   |                          | 24B                  | CONTROL REG BIT    |        |
| 09637   |        | XA317     | 46  |      | XA317  | 56        |     |     | 168         | 9    |       |       | TCCK4A | 03    | TC318N   | 01   | I      | TDD              | HN   |                          | 21A                  |                    |        |
| 10525   |        | XA317     | 47  |      | XA316  | 48        |     |     | 168         | 9    |       |       | TC308P | 04    | TC308P   | 00   | I      | TDD              | GP   |                          | 25B                  | CONTROL REG BIT    |        |
| 12398   |        | XA317     | 48  |      | XA217  | 43        |     |     | 168         | 9    |       |       | TD318Q | 02    | TC318I   | 01   | I      | TDD              | HI   |                          | 22A                  |                    |        |
| 10530   |        | XA317     | 49  |      | XA319  | 47        |     |     | 168         | 9    |       |       | TC308Q | 03    | TC308Q   | 00   | I      | TDD              | GQ   |                          | 26B                  | CONTROL REG BIT    |        |
| 05454   |        | XA317     | 50  |      |        |           |     |     |             |      |       |       | SPI020 | 27    | TC318P   | 01   | I      | TDD              | HP   |                          | 23A                  |                    | 003    |
| 05604   |        | XA317     | 51  |      | XA317  | 39        |     |     | 168         | 9    |       |       | SPI025 | 32    | TC308Q   | 01   | I      | TDD              | GQ   |                          | 27B                  |                    |        |
| 05559   |        | XA317     | 52  |      | XA313  | 65        |     |     | 168         | 9    |       |       | SPI024 | 13    | TC308P   | 01   | I      | TDD              | GP   |                          | 24A                  |                    |        |
| 05603   |        | XA317     | 53  |      | XA317  | 51        |     |     | 168         | 9    |       |       | SPI025 | 31    | TS3EBQ   | 01   | I      | TDD              | KQ   |                          | 28B                  |                    |        |
| 12365   |        | XA317     | 54  |      | XA420  | 38        |     |     | 168         | 9    |       |       | TD308Q | 06    | TC308I   | 01   | I      | TDD              | GI   |                          | 25A                  |                    |        |
| 20527   |        | XA317     | 55  |      |        |           |     |     |             |      | M     |       | TS3EBQ | 01    | TS3EBQ   | 00   | I      | TDD              | KQ   |                          | 29B                  | NOT USED           |        |
| 09638   |        | XA317     | 56  |      | XA314  | 80        |     |     | 168         | 9    |       |       | TCCK4A | 04    | TC308N   | 01   | I      | TDD              | GN   |                          | 26A                  |                    |        |
| 16481   |        | XA317     | 57  |      | XA113  | 29        |     |     | 168         | 9    |       |       | TS3EBP | 02    | TS3EBP   | 00   | I      | TDD              | KP   |                          | 30B                  | STATE 3 ADD ACK +  |        |
| 02434   |        | XA317     | 58  |      |        |           |     |     |             |      |       |       | GND    | 01    |          |      |        | TDD              |      |                          | 40A                  |                    |        |
| 20399   |        | XA317     | 59  |      |        |           |     |     |             |      | M     |       | TADCAP | 01    | TADCAP   | 00   | I      | TDD              | JP   |                          | 31B                  |                    |        |
| 13565   |        | XA317     | 60  |      | XA109  | 57        |     |     | 168         | 9    |       |       | T:1310 | 01    | TS3EBN   | 01   | I      | TDD              | KN   |                          | 28A                  |                    |        |
| 08401   |        | XA317     | 61  |      |        |           |     |     |             |      |       |       | TADCA0 | 02    | TADCA0   | 00   | I      | TDD              | JQ   |                          | 32B                  | PRESET INPUT SPA   |        |
| 12525   |        | XA317     | 62  |      | XA238  | 57        |     |     | 168         | 9    |       |       | TEN8BP | 01    | TS3EBI   | 01   | I      | TDD              | KI   |                          | 29A                  |                    |        |
| 05564   |        | XA317     | 63  |      | XA321  | 75        |     |     | 168         | 9    |       |       | SPI024 | 18    | TADCAQ   | 01   | I      | TDD              | JO   |                          | 33B                  |                    |        |
| 15689   |        | XA317     | 64  |      | XA113  | 57        |     |     | 168         | 9    |       |       | TSTRBP | 01    | TS3EBP   | 01   | I      | TDD              | KP   |                          | 30A                  |                    |        |
| 05037   |        | XA317     | 65  |      | XA416  | 38        |     |     | 168         | 9    |       |       | SPI006 | 14    |          | 01   | I      | TDD              | MQ   |                          | 34B                  |                    |        |
| 08386   |        | XA317     | 66  |      | XA217  | 76        |     |     | 168         | 9    |       |       | TADABP | 03    | TADCAP   | 01   | I      | TDD              | JP   |                          | 31A                  |                    |        |
| 02435   |        | XA317     | 67  |      |        |           |     |     |             |      |       |       | GND    | 01    |          |      |        | TDD              |      |                          | 40B                  |                    |        |
| 14427   |        | XA317     | 68  |      | XA443  | 57        |     |     | 168         | 9    |       |       | TM00AA | 03    |          | 01   | I      | TDD              | JI   |                          | 32A                  |                    |        |
| CONNECTOR (XA317) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |     |             |      |       |       |        |       |          |      |        |                  |      |                          |                      |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA317  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 203

| RECORD NUMBER                                   | FROM   |           |     | TO  |       |       | WIRE   |       |      |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACT | CKT OR CHIP TYPE | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|-------|-------|--------|-------|------|-------|--------|---------|----------|--------|------|------------------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | PIN   | IN FC | OUT FC | GROUP | CODE | COLOR |        |         |          |        |      |                  |                     |                    |                    |        |
| 07894   |        | XA317     | 69  |     |       |       |        |       |      |       |        | SPO     | 01       |        | 00   | 1                | TDD                 | MP                 |                    | 39A    |
| 14457   |        | XA317     | 70  |     | XA304 | 70    |        |       | 16B  | 9     |        | TM01BP  | 04       | TADCAN | 01   | 1                | TDD                 | JN                 |                    | 33A    |
| 05443   |        | XA317     | 71  |     | XA321 | 73    |        |       | 16B  | 9     |        | SPI020  | 16       |        | 01   | 1                | TDD                 | MI                 |                    | 36A    |
| 05002   |        | XA317     | 72  |     | XA315 | 79    |        |       | 16B  | 9     |        | SPI004  | 37       |        | 01   | 1                | TDD                 | MN                 |                    | 34A    |
| 05009   |        | XA317     | 73  |     | XA330 | 14    |        |       | 16B  | 9     |        | SPI005  | 06       |        | 01   | 1                | TDD                 | MP                 |                    | 36B    |
| 07895   |        | XA317     | 74  |     |       |       |        |       |      |       |        | SPO     | 01       |        | 00   | 1                | TDD                 | MQ                 |                    | 35B    |
| 05563   |        | XA317     | 75  |     | XA317 | 63    |        |       | 16B  | 9     |        | SPI024  | 17       | TPEBMP | 01   | 1                | TDD                 | LP                 |                    | 37B    |
| 14631   |        | XA317     | 76  |     |       |       |        |       |      |       |        | TPEBMP  | 02       | TPEBMP | 00   | 1                | TDD                 | LP                 |                    | 37A    |
| 14628   |        | XA317     | 77  |     | XA208 | 51    |        |       | 16B  | 9     |        | TPEBA0  | 01       | TPEBMP | 01   | 1                | TDD                 | LI                 |                    | 38B    |
| 14633   |        | XA317     | 78  |     |       |       |        |       |      |       |        | TPEBMQ  | 02       | TPEBMP | 00   | 1                | TDD                 | LQ                 |                    | 38A    |
| 13802   |        | XA317     | 79  |     |       |       |        |       |      |       |        | TKBABB  | 26       | TPEBMN | 01   | 1                | TDD                 | LN                 |                    | 39B    |
| 05601   |        | XA317     | 80  |     | XA313 | 78    |        |       | 16B  | 9     |        | SPI025  | 29       | TPEBMQ | 01   | 1                | TDD                 | LQ                 |                    | 39A    |
| 01154   |        | XA318     | 01  |     |       |       |        |       |      |       |        | DNW     | 01       |        |      |                  |                     | RR1                |                    |        |
| 02436   |        | XA318     | 02  |     |       |       |        |       |      |       |        | GND     | 01       |        |      |                  |                     | RR1                |                    |        |
| 00037   |        | XA318     | 03  |     | XA318 | 04    |        |       | 16B  | 9     |        | +05RES1 | 150      |        |      |                  |                     | RR1                | AP                 |        |
| 00038   |        | XA318     | 04  |     | XA318 | 13    |        |       | 16B  | 9     |        | +05RES1 | 155      |        |      |                  |                     | RR1                | AP                 |        |
| 08346   |        | XA318     | 05  |     |       |       |        |       |      |       |        | TAC00V1 | 03       |        |      |                  |                     | RR1                | A1                 |        |
| 08348   |        | XA318     | 06  |     |       |       |        |       |      |       |        | TAC00W1 | 02       |        |      |                  |                     | RR1                | A2                 |        |
| 08351   |        | XA318     | 07  |     |       |       |        |       |      |       |        | TAC01V1 | 03       |        |      |                  |                     | RR1                | A3                 |        |
| 08353   |        | XA318     | 08  |     |       |       |        |       |      |       |        | TAC01W1 | 02       |        |      |                  |                     | RR1                | A4                 |        |
| 08354   |        | XA318     | 09  |     | XA309 | 09    |        |       | 16B  | 9     |        | TAC10V1 | 01       |        |      |                  |                     | RR1                | A5                 |        |
| 08358   |        | XA318     | 10  |     |       |       |        |       |      |       |        | TAC10W1 | 02       |        |      |                  |                     | RR1                | A6                 |        |
| 01155   |        | XA318     | 11  |     |       |       |        |       |      |       |        | DNW     | 01       |        |      |                  |                     | RR1                |                    |        |
| 00498   |        | XA318     | 12  |     |       |       |        |       |      |       |        | +5V     | 01       |        |      |                  |                     | RR1                |                    |        |
| 00039   |        | XA318     | 13  |     | XA318 | 14    |        |       | 16B  | 9     |        | +05RES1 | 160      |        |      |                  |                     | RR1                | BP                 |        |
| 00040   |        | XA318     | 14  |     | XA318 | 21    |        |       | 16B  | 9     |        | +05RES1 | 165      |        |      |                  |                     | RR1                | BP                 |        |
| 03860   |        | XA318     | 15  |     |       |       |        |       |      |       |        | DNW     | 01       |        |      |                  |                     | RR1                |                    |        |
| 03861   |        | XA318     | 16  |     |       |       |        |       |      |       |        | DNW     | 01       |        |      |                  |                     | RR1                |                    |        |
| 08361   |        | XA318     | 17  |     |       |       |        |       |      |       |        | TAC11V1 | 03       |        |      |                  |                     | RR1                | B1                 |        |
| 08363   |        | XA318     | 18  |     |       |       |        |       |      |       |        | TAC11W1 | 02       |        |      |                  |                     | RR1                | B2                 |        |
| 08364   |        | XA318     | 19  |     | XA309 | 22    |        |       | 16B  | 9     |        | TAC20V1 | 01       |        |      |                  |                     | RR1                | B3                 |        |
| 08368   |        | XA318     | 20  |     |       |       |        |       |      |       |        | TAC20W1 | 02       |        |      |                  |                     | RR1                | B4                 |        |
| 00041   |        | XA318     | 21  |     | XA318 | 22    |        |       | 16B  | 9     |        | +05RES1 | 170      |        |      |                  |                     | RR1                | CP                 |        |
| 00042   |        | XA318     | 22  |     | XA318 | 33    |        |       | 16B  | 9     |        | +05RES1 | 175      |        |      |                  |                     | RR1                | CP                 |        |
| 08374   |        | XA318     | 23  |     | XA309 | 17    |        |       | 16B  | 9     |        | TAC30V1 | 01       |        |      |                  |                     | RR1                | C1                 |        |
| 08369   |        | XA318     | 24  |     | XA309 | 30    |        |       | 16B  | 9     |        | TAC21V1 | 01       |        |      |                  |                     | RR1                | B5                 |        |
| 08378   |        | XA318     | 25  |     |       |       |        |       |      |       |        | TAC30W1 | 02       |        |      |                  |                     | RR1                | C2                 |        |
| 08373   |        | XA318     | 26  |     |       |       |        |       |      |       |        | TAC21W1 | 02       |        |      |                  |                     | RR1                | B6                 |        |
| 03862   |        | XA318     | 27  |     |       |       |        |       |      |       |        | DNW     | 01       |        |      |                  |                     | RR1                |                    |        |
| 03863   |        | XA318     | 28  |     |       |       |        |       |      |       |        | DNW     | 01       |        |      |                  |                     | RR1                |                    |        |
| 08379   |        | XA318     | 29  |     | XA309 | 37    |        |       | 16B  | 9     |        | TAC31V1 | 01       |        |      |                  |                     | RR1                | C3                 |        |
| 08383   |        | XA318     | 30  |     |       |       |        |       |      |       |        | TAC31W1 | 02       |        |      |                  |                     | RR1                | C4                 |        |
| 01156   |        | XA318     | 31  |     |       |       |        |       |      |       |        | DNW     | 01       |        |      |                  |                     | RR1                |                    |        |
| 02437   |        | XA318     | 32  |     |       |       |        |       |      |       |        | GND     | 01       |        |      |                  |                     | RR1                |                    |        |
| 00043   |        | XA318     | 33  |     | XA318 | 34    |        |       | 16B  | 9     |        | +05RES1 | 180      |        |      |                  |                     | RR1                | DP                 |        |
| 00044   |        | XA318     | 34  |     | XA318 | 49    |        |       | 16B  | 9     |        | +05RES1 | 185      |        |      |                  |                     | RR1                | DP                 |        |
| 07696   |        | XA318     | 35  |     | XA205 | 51    |        |       | 16B  | 9     |        | WKMM2A  | 005      |        |      |                  |                     | RR1                | D1                 |        |
| 07697   |        | XA318     | 36  |     |       |       |        |       |      |       |        | WKMM4A  | 03       |        |      |                  |                     | RR1                | C6                 |        |
| CONNECTOR XA318 CONTINUED ON THE NEXT PAGE **** |        |           |     |     |       |       |        |       |      |       |        |         |          |        |      |                  |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA318  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 204

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |       |      | SIGNAL | SEC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | LOAD OR POWER PLANE | TEST POINTS | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|------|-------|------|--------|--------|----------|------|--------|------------------|---------------------|-------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | NO   | GROUP | CODE |        |        |          |      |        |                  |                     |             |                    |                  |
| 07698   |        | XA318     | 37  |        | XA208     | 35  |      |       | 168  | 9      |        |          |      |        | RR1              | D2                  |             |                    |                  |
| 07699   |        | XA318     | 38  |        |           |     |      |       |      |        |        |          |      |        | RR1              | C5                  |             |                    |                  |
| 07700   |        | XA318     | 39  |        | XA201     | 31  |      |       | 168  | 9      |        |          |      |        | RR1              | D3                  |             |                    |                  |
| 07701   |        | XA318     | 40  |        | XA201     | 33  |      |       | 168  | 9      |        |          |      |        | RR1              | D4                  |             |                    |                  |
| 07702   |        | XA318     | 41  |        | XA201     | 63  |      |       | 168  | 9      |        |          |      |        | RR1              | E1                  |             |                    |                  |
| 07703   |        | XA318     | 42  |        | XA327     | 42  |      |       | 168  | 9      |        |          |      |        | RR1              | D5                  |             |                    |                  |
| 01157   |        | XA318     | 43  |        |           |     |      |       |      |        |        |          |      |        | RR1              |                     |             |                    |                  |
| 02438   |        | XA318     | 44  |        |           |     |      |       |      |        |        |          |      |        | RR1              |                     |             |                    |                  |
| 07704   |        | XA318     | 45  |        |           |     |      |       |      |        |        |          |      |        | RR1              | F2                  |             |                    |                  |
| 07705   |        | XA318     | 46  |        | XA434     | 25  |      |       | 168  | 9      |        |          |      |        | RR1              | D6                  |             |                    |                  |
| 07706   |        | XA318     | 47  |        |           |     |      |       |      |        |        |          |      |        | RR1              | E3                  |             |                    |                  |
| 07707   |        | XA318     | 48  |        | XA201     | 59  |      |       | 168  | 9      |        |          |      |        | RR1              | E4                  |             |                    |                  |
| 00045   |        | XA318     | 49  |        | XA318     | 50  |      |       | 168  | 9      |        |          |      |        | RR1              | EP                  |             |                    | B04              |
| 00046   |        | XA318     | 50  |        | XA318     | 59  |      |       | 168  | 9      |        |          |      |        | RR1              | EP                  |             |                    | B04              |
| 07708   |        | XA318     | 51  |        | XA213     | 50  |      |       | 168  | 9      |        |          |      |        | RR1              | F1                  |             |                    |                  |
| 07709   |        | XA318     | 52  |        | XA213     | 52  |      |       | 168  | 9      |        |          |      |        | RR1              | E5                  |             |                    |                  |
| 14221   |        | XA318     | 53  |        |           |     |      |       |      |        |        |          |      |        | RR1              | F2                  |             |                    | C02              |
| 07710   |        | XA318     | 54  |        | XA201     | 65  |      |       | 168  | 9      |        |          |      |        | RR1              | E6                  |             |                    |                  |
| 14261   |        | XA318     | 55  |        |           |     |      |       |      |        |        |          |      |        | RR1              | F3                  |             |                    |                  |
| 14273   |        | XA318     | 56  |        | XA510     | 03  |      |       | 168  | 9      |        |          |      |        | RR1              | F4                  |             |                    |                  |
| 01158   |        | XA318     | 57  |        |           |     |      |       |      |        |        |          |      |        | RR1              |                     |             |                    |                  |
| 02439   |        | XA318     | 58  |        |           |     |      |       |      |        |        |          |      |        | RR1              |                     |             |                    |                  |
| 00047   |        | XA318     | 59  |        | XA318     | 60  |      |       | 168  | 9      |        |          |      |        | RR1              | FP                  |             |                    | B04              |
| 00048   |        | XA318     | 60  |        | XA318     | 69  |      |       | 168  | 9      |        |          |      |        | RR1              | FP                  |             |                    | B04              |
| 14213   |        | XA318     | 61  |        | XA304     | 59  |      |       | 168  | 9      |        |          |      |        | RR1              | G1                  |             |                    |                  |
| 14281   |        | XA318     | 62  |        | XA511     | 10  |      |       | 168  | 9      |        |          |      |        | RR1              | F5                  |             |                    | A01              |
| 14254   |        | XA318     | 63  |        | XA106     | 66  |      |       | 168  | 9      |        |          |      |        | RR1              | G2                  |             |                    | A01              |
| 07711   |        | XA318     | 64  |        | XA415     | 55  |      |       | 168  | 9      |        |          |      |        | RR1              | F6                  |             |                    |                  |
| 14269   |        | XA318     | 65  |        | XA427     | 07  |      |       | 168  | 9      |        |          |      |        | RR1              | G3                  |             |                    | C02              |
| 14280   |        | XA318     | 66  |        |           |     |      |       |      |        |        |          |      |        | RR1              | G4                  |             |                    |                  |
| 02440   |        | XA318     | 67  |        |           |     |      |       |      |        |        |          |      |        | RR1              |                     |             |                    |                  |
| 01159   |        | XA318     | 68  |        |           |     |      |       |      |        |        |          |      |        | RR1              |                     |             |                    |                  |
| 00049   |        | XA318     | 69  |        | XA318     | 70  |      |       | 168  | 9      |        |          |      |        | RR1              | GP                  |             |                    | B04              |
| 00050   |        | XA318     | 70  |        | XA331     | 80  |      |       | 168  | 9      |        |          |      |        | RR1              | GP                  |             |                    | B04              |
| 20225   |        | XA318     | 71  |        | XA421     | 07  |      |       | 168  | 9      |        |          |      |        | RR1              | H1                  |             |                    |                  |
| 03783   |        | XA318     | 72  |        | XA511     | 11  |      |       | 168  | 9      |        |          |      |        | RR1              | G5                  |             |                    | A01              |
| 14182   |        | XA318     | 73  |        |           |     |      |       |      |        |        |          |      |        | RR1              | H2                  |             |                    |                  |
| 07712   |        | XA318     | 74  |        | XA201     | 37  |      |       | 168  | 9      |        |          |      |        | RR1              | G6                  |             |                    |                  |
| 14184   |        | XA318     | 75  |        | XA106     | 59  |      |       | 168  | 9      |        |          |      |        | RR1              | H3                  |             |                    | B05              |
| 03788   |        | XA318     | 76  |        | XA106     | 77  |      |       | 168  | 9      |        |          |      |        | RR1              | H4                  |             |                    | B05              |
| 03785   |        | XA318     | 77  |        | XA306     | 10  |      |       | 180  | 2      |        |          |      |        | RR1              | H5                  |             |                    | B05              |
| 06278   |        | XA318     | 78  |        | XA427     | 13  |      |       | 168  | 9      |        |          |      |        | RR1              | H6                  |             |                    |                  |
| 00244   |        | XA318     | 79  |        | XA331     | 21  |      |       | 168  | 9      |        |          |      |        | RR1              | HP                  |             |                    | B05              |
| 00243   |        | XA318     | 80  |        | XA318     | 79  |      |       | 168  | 9      |        |          |      |        | RR1              | HP                  |             |                    | B05              |
| 10266   |        | XA319     | 01  |        | XA321     | 07  |      |       | 168  | 9      |        |          |      |        |                  |                     | 02B         |                    |                  |
| 02441   |        | XA319     | 02  |        |           |     |      |       |      |        |        |          |      |        |                  |                     | 01B         |                    |                  |
| 14642   |        | XA319     | 03  |        | XA319     | 06  |      |       | 168  | 9      |        |          |      |        |                  |                     | 02A         |                    |                  |
| 14843   |        | XA319     | 04  |        |           |     |      |       |      |        |        |          |      |        |                  |                     | 04A         |                    | TC12*.13* EPL CO |
| CONNECTOR (XA319) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |       |      |        |        |          |      |        |                  |                     |             |                    |                  |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA319  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 205

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       | SPEC INST. WIRE | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR |                 |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10247   |        | XA319     | 05  |      | XA137  | 65        |     | 168  | 9           |      |       |                 | TC12BP | 04     | TPR20A   | 01   | 3      | TT3              | A2    |                     | 03B                |                    |        |
| 14643   |        | XA319     | 06  |      | XA319  | 26        |     | 168  | 9           |      |       |                 | TPEC10 | 03     | TPR10A   | 01   | 1      | TT3              | A1    |                     | 05A                |                    |        |
| 14849   |        | XA319     | 07  |      | XA324  | 17        |     | 168  | 9           |      |       |                 | TPR20A | 01     | TPR20A   | 00   | 1      | TT3              | A2    |                     | 03A                | TC12*.13.EPL CON   |        |
| 10259   |        | XA319     | 08  |      | XA319  | 13        |     | 168  | 9           |      |       |                 | TC13BP | 03     | TPR10A   | 01   | 2      | TT3              | A1    |                     | 06A                |                    |        |
| 14641   |        | XA319     | 09  |      | XA319  | 03        |     | 168  | 9           |      |       |                 | TPEC10 | 01     | TPR30A   | 01   | 1      | TT3              | A3    |                     | 04B                |                    |        |
| 10246   |        | XA319     | 10  |      | XA319  | 05        |     | 168  | 9           |      |       |                 | TC12BP | 03     | TPR10A   | 01   | 3      | TT3              | A1    |                     | 07A                |                    |        |
| 10254   |        | XA319     | 11  |      | XA219  | 73        |     | 168  | 9           |      |       |                 | TC12BQ | 06     | TPR30A   | 01   | 2      | TT3              | A3    |                     | 05B                |                    |        |
| 00499   |        | XA319     | 12  |      |        |           |     |      |             |      |       |                 | +5V    | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 10260   |        | XA319     | 13  |      | XA319  | 17        |     | 168  | 9           |      |       |                 | TC13BP | 04     | TPR30A   | 01   | 3      | TT3              | A3    |                     | 06B                |                    |        |
| 09280   |        | XA319     | 14  |      | XA245  | 60        |     | 168  | 9           |      |       |                 | TBYCA0 | 04     | TB1X1A   | 01   | 1      | TT3              | B2    |                     | 09A                |                    | G01    |
| 14856   |        | XA319     | 15  |      | XA324  | 21        |     | 168  | 9           |      |       |                 | TPR30A | 01     | TPR30A   | 00   | 1      | TT3              | A3    |                     | 07B                | TC12.13* EPL CON   |        |
| 02442   |        | XA319     | 16  |      |        |           |     |      |             |      |       |                 | GND    | 01     |          |      |        | TT3              |       |                     | 21B                |                    |        |
| 10261   |        | XA319     | 17  |      | XA319  | 21        |     | 168  | 9           |      |       |                 | TC13BP | 05     | TB1X1A   | 01   | 2      | TT3              | B2    |                     | 08B                |                    |        |
| 10542   |        | XA319     | 18  |      | XA323  | 18        |     | 168  | 9           |      |       |                 | TC31BP | 06     | TB1X1A   | 01   | 3      | TT3              | B2    |                     | 10A                |                    |        |
| 09311   |        | XA319     | 19  |      | XA145  | 29        |     | 168  | 9           |      |       |                 | TB1X1A | 01     | TB1X1A   | 00   | 1      | TT3              | B2    |                     | 09B                | BYTE 1 CONT-S14.   |        |
| 14863   |        | XA319     | 20  |      | XA324  | 27        |     | 168  | 9           |      |       |                 | TPR40A | 01     | TPR40A   | 00   | 1      | TT3              | B1    |                     | 11A                | TC12.13 EPL CONT   |        |
| 10262   |        | XA319     | 21  |      | XA324  | 35        |     | 168  | 9           |      |       |                 | TC13BP | 06     | TB3X1A   | 01   | 1      | TT3              | B3    |                     | 10B                |                    |        |
| 10252   |        | XA319     | 22  |      | XA321  | 13        |     | 168  | 9           |      |       |                 | TC12BQ | 04     | TPR40A   | 01   | 1      | TT3              | B1    |                     | 12A                |                    |        |
| 10551   |        | XA319     | 23  |      | XA323  | 13        |     | 168  | 9           |      |       |                 | TC31BQ | 06     | TB3X1A   | 01   | 2      | TT3              | B3    |                     | 11B                |                    |        |
| 10265   |        | XA319     | 24  |      | XA319  | 01        |     | 168  | 9           |      |       |                 | TC13BQ | 01     | TPR40A   | 01   | 2      | TT3              | B1    |                     | 13A                |                    |        |
| 09279   |        | XA319     | 25  |      | XA319  | 14        |     | 168  | 9           |      |       |                 | TBYCA0 | 03     | TB3X1A   | 01   | 3      | TT3              | B3    |                     | 12B                |                    |        |
| 14644   |        | XA319     | 26  |      | XA324  | 68        |     | 168  | 9           |      |       |                 | TPEC10 | 04     | TPR40A   | 01   | 3      | TT3              | B1    |                     | 14A                |                    |        |
| 09347   |        | XA319     | 27  |      | XA145  | 41        |     | 168  | 9           |      |       |                 | TB3X1A | 01     | TB3X1A   | 00   | 1      | TT3              | B3    |                     | 13B                | BYTE 3 CONT S14.   |        |
| 00500   |        | XA319     | 28  |      |        |           |     |      |             |      |       |                 | +5V    | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 09278   |        | XA319     | 29  |      | XA319  | 25        |     | 168  | 9           |      |       |                 | TBYCA0 | 02     | TB4X1A   | 01   | 1      | TT3              | C2    |                     | 14B                |                    |        |
| 10282   |        | XA319     | 30  |      | XA319  | 35        |     | 168  | 9           |      |       |                 | TC13C0 | 05     | TB4X1A   | 01   | 2      | TT3              | C2    |                     | 15A                |                    |        |
| 09363   |        | XA319     | 31  |      | XA144  | 31        |     | 168  | 9           |      |       |                 | TB4X1A | 01     | TB4X1A   | 00   | 1      | TT3              | C2    |                     | 15B                | BYTE 4 CONT S14.   |        |
| 02443   |        | XA319     | 32  |      |        |           |     |      |             |      |       |                 | GND    | 01     |          |      |        | TT3              |       |                     | 27A                |                    |        |
| 13899   |        | XA319     | 33  |      | XA323  | 36        |     | 168  | 9           |      |       |                 | TKWXA0 | 06     | TCAM6A   | 01   | 1      | TT3              | C3    |                     | 16B                |                    |        |
| 10550   |        | XA319     | 34  |      | XA319  | 23        |     | 168  | 9           |      |       |                 | TC31BQ | 05     | TB4X1A   | 01   | 3      | TT3              | C2    |                     | 16A                |                    |        |
| 10283   |        | XA319     | 35  |      | XA319  | 42        |     | 168  | 9           |      |       |                 | TC13C0 | 06     | TCAM6A   | 01   | 2      | TT3              | C3    |                     | 17B                |                    |        |
| 09330   |        | XA319     | 36  |      | XA145  | 52        |     | 168  | 9           |      |       |                 | TB2X1A | 01     | TB2X1A   | 00   | 1      | TT3              | C1    |                     | 17A                | BYTE 2 CONT S14.   |        |
| 09428   |        | XA319     | 37  |      |        |           |     |      |             |      |       |                 | TC115A | 03     | TCAM6A   | 01   | 3      | TT3              | C3    |                     | 18B                |                    |        |
| 10541   |        | XA319     | 38  |      | XA319  | 18        |     | 168  | 9           |      |       |                 | TC31BP | 05     | TB2X1A   | 01   | 1      | TT3              | C1    |                     | 18A                |                    |        |
| 09460   |        | XA319     | 39  |      |        |           |     |      |             |      |       |                 | TCAM6A | 02     | TCAM6A   | 00   | 1      | TT3              | C3    |                     | 19B                | GROUP 6 BITS 29-   |        |
| 09277   |        | XA319     | 40  |      | XA319  | 29        |     | 168  | 9           |      |       |                 | TBYCA0 | 01     | TB2X1A   | 01   | 2      | TT3              | C1    |                     | 19A                |                    |        |
| 10231   |        | XA319     | 41  |      | XA322  | 26        |     | 168  | 9           |      |       |                 | TC11CA | 10     | TU292A   | 01   | 1      | TT3              | D2    |                     | 22B                |                    |        |
| 10284   |        | XA319     | 42  |      | XA308  | 40        |     | 168  | 9           |      |       |                 | TC13C0 | 07     | TB2X1A   | 01   | 3      | TT3              | C1    |                     | 20A                |                    |        |
| 16805   |        | XA319     | 43  |      |        |           |     |      |             |      |       |                 | TU292A | 02     | TU292A   | 00   | 1      | TT3              | D2    |                     | 23B                | UPDATE CA29 IF 2   |        |
| 02444   |        | XA319     | 44  |      |        |           |     |      |             |      |       |                 | GND    | 01     |          |      |        | TT3              |       |                     | 40A                |                    |        |
| 10242   |        | XA319     | 45  |      | XA309  | 76        |     | 168  | 9           |      |       |                 | TC11C0 | 10     | TU294A   | 01   | 1      | TT3              | D3    |                     | 24B                |                    |        |
| 10532   |        | XA319     | 46  |      | XA322  | 73        |     | 168  | 9           |      |       |                 | TC30BQ | 05     | TU292A   | 01   | 2      | TT3              | D2    |                     | 21A                |                    |        |
| 10531   |        | XA319     | 47  |      | XA319  | 46        |     | 168  | 9           |      |       |                 | TC30BQ | 04     | TU294A   | 01   | 2      | TT3              | D3    |                     | 25B                |                    |        |
| 10512   |        | XA319     | 48  |      | XA221  | 72        |     | 168  | 9           |      |       |                 | TC298P | 03     | TU292A   | 01   | 3      | TT3              | D2    |                     | 22A                |                    |        |
| 10559   |        | XA319     | 49  |      | XA213  | 56        |     | 168  | 9           |      |       |                 | TC31C0 | 04     | TU294A   | 01   | 3      | TT3              | D3    |                     | 26B                |                    |        |
| 16802   |        | XA319     | 50  |      | XA308  | 31        |     | 168  | 9           |      |       |                 | TU291A | 01     | TU291A   | 00   | 1      | TT3              | D1    |                     | 23A                | UPDATE CA29 IF 2   |        |
| 16808   |        | XA319     | 51  |      | XA308  | 34        |     | 168  | 9           |      |       |                 | TU294A | 01     | TU294A   | 00   | 1      | TT3              | D3    |                     | 27B                | UPDATE CA29 IF 3   |        |
| 10524   |        | XA319     | 52  |      | XA317  | 47        |     | 168  | 9           |      |       |                 | TC30BP | 03     | TU291A   | 01   | 1      | TT3              | D1    |                     | 24A                |                    |        |
| 09019   |        | XA319     | 53  |      |        |           |     |      |             |      |       |                 | TBL2A0 | 12     | TCST6A   | 01   | 1      | TT3              | E2    |                     | 28B                |                    |        |
| 10230   |        | XA319     | 54  |      | XA319  | 41        |     | 168  | 9           |      |       |                 | TC11CA | 09     | TU291A   | 01   | 2      | TT3              | D1    |                     | 25A                |                    |        |
| CONNECTOR (XA319) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |                 |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA319  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 206

| RECORD NUMBER                                     | FRGM   |           |     | TO  |        |           | WIRE |      | MULTI GROUP | CODE | COLOR | IDENT | SFC INST. MISC. | SIGNAL | SFC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|-----|--------|-----------|------|------|-------------|------|-------|-------|-----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PIN | PREFIX | CONNECTOR | PIN  | SIZE |             |      |       |       |                 |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 09921   |        | XA319     | 55  |     | XA328  | 18        |      | 168  | 9           |      |       |       |                 | TCST6A | 01     | TCST6A   | 00   | 1      | TT3              | E2    |                     | 29B                |                    |                  |
| 10517   |        | XA319     | 56  |     | XA322  | 71        |      | 168  | 9           |      |       |       |                 | TC298Q | 04     | TU291A   | 01   | 3      | TT3              | D1    |                     | 26A                |                    |                  |
| 10540   |        | XA319     | 57  |     | XA319  | 38        |      | 168  | 9           |      |       |       |                 | TC31BP | 04     | TD312A   | 01   | 1      | TT3              | E3    |                     | 30B                |                    |                  |
| 02445   |        | XA319     | 58  |     |        |           |      |      |             |      |       |       |                 | GND    | 01     |          |      |        | TT3              |       |                     | 40B                |                    |                  |
| 09461   |        | XA319     | 59  |     | XA218  | 43        |      | 168  | 9           |      |       |       |                 | TCAM60 | 01     | TD312A   | 01   | 2      | TT3              | E3    |                     | 31B                |                    |                  |
| 16191   |        | XA319     | 60  |     | XA208  | 41        |      | 168  | 9           |      |       |       |                 | TS16BQ | 06     | TCST6A   | 01   | 2      | TT3              | E2    |                     | 28A                |                    |                  |
| 10221   |        | XA319     | 61  |     |        |           |      |      |             |      |       |       |                 | TC118Q | 09     | TD312A   | 01   | 3      | TT3              | E3    |                     | 32B                |                    |                  |
| 09687   |        | XA319     | 62  |     | XA326  | 13        |      | 168  | 9           |      |       |       |                 | TC0160 | 09     | TCST6A   | 01   | 3      | TT3              | E2    |                     | 29A                |                    |                  |
| 12416   |        | XA319     | 63  |     | XA215  | 56        |      | 168  | 9           |      |       |       |                 | TD312A | 01     | TD312A   | 00   | 1      | TT3              | E3    |                     | 33B                |                    | UPDATE TC31 TO T |
| 16718   |        | XA319     | 64  |     | XA327  | 24        |      | 168  | 9           |      |       |       |                 | TU051A | 01     | TU051A   | 00   | 1      | TT3              | E1    |                     | 30A                |                    | BL UPDATE TC07*  |
| 05565   |        | XA319     | 65  |     | XA332  | 04        |      | 168  | 9           |      |       |       |                 | TS2110 | 01     | TK090A   | 01   | 1      | TT3              | F2    |                     | 34B                |                    |                  |
| 10121   |        | XA319     | 66  |     |        |           |      |      |             |      |       |       |                 | TC05BQ | 07     | TUC51A   | 01   | 1      | TT3              | E1    |                     | 31A                |                    |                  |
| 02446   |        | XA319     | 67  |     |        |           |      |      |             |      |       |       |                 | GND    | 01     |          |      |        | TT3              |       |                     |                    |                    |                  |
| 10143   |        | XA319     | 68  |     |        |           |      |      |             |      |       |       |                 | TC07BP | 08     | TU051A   | 01   | 2      | TT3              | E1    |                     | 32A                |                    |                  |
| 15612   |        | XA319     | 69  |     | XA304  | 36        |      | 168  | 9           |      |       |       |                 | TSA2B0 | 03     | TOFS2A   | 01   | 1      | TT3              | F3    |                     | 35A                |                    |                  |
| 10122   |        | XA319     | 70  |     | XA322  | 04        |      | 168  | 9           |      |       |       |                 | TC06BP | 01     | TU051A   | 01   | 3      | TT3              | E1    |                     | 33A                |                    |                  |
| 05444   |        | XA319     | 71  |     |        |           |      |      |             |      |       |       |                 | TI1MRQ | 05     | TK090A   | 01   | 2      | TT3              | F2    |                     | 36A                |                    |                  |
| 05599   |        | XA319     | 72  |     |        |           |      |      |             |      |       |       |                 | TK091A | 02     | TK090A   | 01   | 3      | TT3              | F2    |                     | 34A                |                    |                  |
| 16268   |        | XA319     | 73  |     | XA343  | 45        |      | 168  | 9           |      |       |       |                 | TS192A | 01     | TS192A   | 00   | 1      | TT3              | F1    |                     | 36B                |                    | WRITE CONTROL PA |
| 07896   |        | XA319     | 74  |     |        |           |      |      |             |      |       |       |                 | TK090A | 02     | TK090A   | 00   | 1      | TT3              | F2    |                     | 35B                |                    |                  |
| 16257   |        | XA319     | 75  |     | XA347  | 78        |      | 168  | 9           |      |       |       |                 | TS198Q | 01     | TS192A   | 01   | 1      | TT3              | F1    |                     | 37B                |                    |                  |
| 17043   |        | XA319     | 76  |     |        |           |      |      |             |      |       |       |                 | TOFRB0 | 07     | TOFS2A   | 01   | 2      | TT3              | F3    |                     | 37A                |                    |                  |
| 13354   |        | XA319     | 77  |     | XA345  | 77        |      | 168  | 9           |      |       |       |                 | TINDCA | 06     | TS192A   | 01   | 2      | TT3              | F1    |                     | 38B                |                    |                  |
| 16453   |        | XA319     | 78  |     | XA350  | 74        |      | 168  | 9           |      |       |       |                 | TS28BQ | 01     | TOFS2A   | 01   | 3      | TT3              | F3    |                     | 38A                |                    |                  |
| 13454   |        | XA319     | 79  |     | XA305  | 48        |      | 168  | 9           |      |       |       |                 | TI1MRP | 05     | TS192A   | 01   | 3      | TT3              | F1    |                     | 39B                |                    |                  |
| 17065   |        | XA319     | 80  |     |        |           |      |      |             |      |       |       |                 | TOFS2A | 04     | TOFS2A   | 00   | 1      | TT3              | F3    |                     | 39A                |                    | WRITE CONTROL PA |
| 09470   |        | XA320     | 01  |     | XA218  | 78        |      | 168  | 9           |      |       |       |                 | TCATCA | 06     | TCATCA   | 00   | 1      | TQ2              | A2    |                     | 02B                |                    | XFER CA TO TO IF |
| 02447   |        | XA320     | 02  |     |        |           |      |      |             |      |       |       |                 | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |                  |
| 10305   |        | XA320     | 03  |     |        |           |      |      |             |      |       |       |                 | TC141A | 02     | TC1400   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |                  |
| 13898   |        | XA320     | 04  |     | XA319  | 33        |      | 168  | 9           |      |       |       |                 | TKWXA0 | 05     | TCATCA   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |                  |
| 10258   |        | XA320     | 05  |     | XA319  | 08        |      | 168  | 9           |      |       |       |                 | TC13BP | 02     | TCATCA   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |                  |
| 09624   |        | XA320     | 06  |     |        |           |      |      |             |      |       |       |                 | TCCK1A | 05     | TCCK1A   | 00   | 1      | TQ2              | A1    |                     | 05A                |                    | CLK INPUT TC16-2 |
| 10306   |        | XA320     | 07  |     | XA327  | 15        |      | 168  | 9           |      |       |       |                 | TC142A | 01     | TC1400   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |                  |
| 09701   |        | XA320     | 08  |     | XA250  | 23        |      | 168  | 9           |      |       |       |                 | TC02A0 | 04     | TCCK1A   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |                  |
| 10302   |        | XA320     | 09  |     | XA321  | 24        |      | 168  | 9           |      |       |       |                 | TC1400 | 01     | TC1400   | 00   | 1      | TQ2              | A3    |                     | 04B                |                    | CONTROL REG BIT  |
| 13686   |        | XA320     | 10  |     | XA320  | 54        |      | 168  | 9           |      |       |       |                 | TKAABB | 07     | TCCK1A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |                  |
| 10289   |        | XA320     | 11  |     | XA321  | 23        |      | 168  | 9           |      |       |       |                 | TC14BP | 01     | TACX0A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |                  |
| 00501   |        | XA320     | 12  |     |        |           |      |      |             |      |       |       |                 | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |                  |
| 10313   |        | XA320     | 13  |     |        |           |      |      |             |      |       |       |                 | TC158P | 06     | TACX0A   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |                  |
| 08242   |        | XA320     | 14  |     | XA313  | 17        |      | 168  | 9           |      |       |       |                 | TACX2A | 02     | TACX2A   | 00   | 1      | TQ2              | B2    |                     | 09A                |                    | X LINE 2         |
| 08222   |        | XA320     | 15  |     | XA313  | 08        |      | 168  | 9           |      |       |       |                 | TACX0A | 02     | TACX0A   | 00   | 1      | TQ2              | A4    |                     | 07B                |                    | X LINE 0         |
| 02448   |        | XA320     | 16  |     |        |           |      |      |             |      |       |       |                 | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |                  |
| 10299   |        | XA320     | 17  |     | XA322  | 18        |      | 168  | 9           |      |       |       |                 | TC148Q | 06     | TACX3A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |                  |
| 10298   |        | XA320     | 18  |     | XA320  | 17        |      | 168  | 9           |      |       |       |                 | TC148Q | 05     | TACX2A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |                  |
| 10317   |        | XA320     | 19  |     | XA314  | 19        |      | 168  | 9           |      |       |       |                 | TC158Q | 04     | TACX3A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |                  |
| 10312   |        | XA320     | 20  |     | XA320  | 13        |      | 168  | 9           |      |       |       |                 | TC158P | 05     | TACX2A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |                  |
| 08253   |        | XA320     | 21  |     | XA135  | 39        |      | 168  | 9           |      |       |       |                 | TACX3A | 03     | TACX3A   | 00   | 1      | TQ2              | B3    |                     | 10B                |                    | X LINE 3         |
| 08232   |        | XA320     | 22  |     | XA313  | 20        |      | 168  | 9           |      |       |       |                 | TACX1A | 02     | TACX1A   | 00   | 1      | TQ2              | B1    |                     | 12A                |                    | X LINE 1         |
| CONNECTOR (XA320) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |      |      |             |      |       |       |                 |        |        |          |      |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA320  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 207

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SPEC. INST. MISC. | SIGNAL | SEQ NO. | EQUATION | TERM. | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|-------------------|--------|---------|----------|-------|--------|------------------|-------|---------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |                   |        |         |          |       |        |                  |       |                     |                    |                    |         |
| 10353   |        | XA320     | 23  |        | XA321     | 33  |      |             | 16B  | 9     |                   | TC17BP | 01      | TACY0A   | 01    | 1      | TQ2              | B4    |                     | 11B                |                    |         |
| 10315   |        | XA320     | 24  |        | XA321     | 19  |      |             | 16B  | 9     |                   | TC15BQ | 02      | TACX1A   | 01    | 1      | TQ2              | B1    |                     | 13A                |                    |         |
| 10334   |        | XA320     | 25  |        | XA321     | 35  |      |             | 16B  | 9     |                   | TC16BP | 05      | TACY0A   | 01    | 2      | TQ2              | B4    |                     | 12B                |                    |         |
| 10291   |        | XA320     | 26  |        | XA320     | 37  |      |             | 16B  | 9     |                   | TC14BP | 03      | TACX1A   | 01    | 2      | TQ2              | B1    |                     | 14A                |                    |         |
| 08287   |        | XA320     | 27  |        |           |     |      |             |      |       |                   | TACY0A | 03      | TACY0A   | 00    | 1      | TQ2              | B4    |                     | 13B                | Y LINE 0           |         |
| 00502   |        | XA320     | 28  |        |           |     |      |             |      |       |                   | +5V    | 01      |          |       |        | TQ2              |       |                     |                    |                    |         |
| 10359   |        | XA320     | 29  |        | XA321     | 31  |      |             | 16B  | 9     |                   | TC17B0 | 02      | TACY3A   | 01    | 1      | TQ2              | C3    |                     | 14B                |                    |         |
| 08305   |        | XA320     | 30  |        |           |     |      |             |      |       |                   | TACY2A | 03      | TACY2A   | 00    | 1      | TQ2              | C2    |                     | 15A                | Y LINE 2           |         |
| 10341   |        | XA320     | 31  |        | XA314     | 34  |      |             | 16B  | 9     |                   | TC16BQ | 03      | TACY3A   | 01    | 2      | TQ2              | C3    |                     | 19B                |                    |         |
| 02449   |        | XA320     | 32  |        |           |     |      |             |      |       |                   | GND    | 01      |          |       |        | TQ2              |       |                     | 20B                |                    |         |
| 08313   |        | XA320     | 33  |        |           |     |      |             |      |       |                   | TACY3A | 03      | TACY3A   | 00    | 1      | TQ2              | C3    |                     | 16B                | Y LINE 3           |         |
| 10340   |        | XA320     | 34  |        | XA320     | 31  |      |             | 16B  | 9     |                   | TC16BQ | 02      | TACY2A   | 01    | 1      | TQ2              | C2    |                     | 16A                |                    |         |
| 16742   |        | XA320     | 35  |        |           |     |      |             |      |       |                   | TU141A | 03      | TU14A0   | 01    | 1      | TQ2              | C4    |                     | 17B                |                    |         |
| 10355   |        | XA320     | 36  |        | XA322     | 50  |      |             | 16B  | 9     |                   | TC17BP | 03      | TACY2A   | 01    | 2      | TQ2              | C2    |                     | 17A                |                    |         |
| 10292   |        | XA320     | 37  |        | XA322     | 42  |      |             | 16B  | 9     |                   | TC14BP | 04      | TU14A0   | 01    | 2      | TQ2              | C4    |                     | 18B                |                    |         |
| 08296   |        | XA320     | 38  |        |           |     |      |             |      |       |                   | TACY1A | 03      | TACY1A   | 00    | 1      | TQ2              | C1    |                     | 18A                | Y LINE 1           |         |
| 16739   |        | XA320     | 39  |        |           |     |      |             |      |       |                   | TU14A0 | 02      | TU14A0   | 00    | 1      | TQ2              | C4    |                     | 19B                | UPDATE CA 14 IF    |         |
| 10336   |        | XA320     | 40  |        | XA322     | 54  |      |             | 16B  | 9     |                   | TC16BP | 07      | TACY1A   | 01    | 1      | TQ2              | C1    |                     | 19A                |                    |         |
| 10350   |        | XA320     | 41  |        |           |     |      |             |      |       |                   | TC161A | 02      | TC1600   | 01    | 1      | TQ2              | D3    |                     | 22B                |                    |         |
| 10361   |        | XA320     | 42  |        | XA320     | 70  |      |             | 16B  | 9     |                   | TC17BQ | 04      | TACY1A   | 01    | 2      | TQ2              | C1    |                     | 20A                |                    |         |
| 10352   |        | XA320     | 43  |        |           |     |      |             |      |       |                   | TC162A | 02      | TC1600   | 01    | 2      | TQ2              | D3    |                     | 23B                |                    |         |
| 02450   |        | XA320     | 44  |        |           |     |      |             |      |       |                   | GND    | 01      |          |       |        | TQ2              |       |                     | 21B                |                    |         |
| 10347   |        | XA320     | 45  |        | XA321     | 40  |      |             | 16B  | 9     |                   | TC1600 | 01      | TC1600   | 00    | 1      | TQ2              | D3    |                     | 24B                | CONTROL REG BIT    |         |
| 16763   |        | XA320     | 46  |        | XA316     | 53  |      |             | 16B  | 9     |                   | TU182A | 01      | TU182A   | 00    | 1      | TQ2              | D2    |                     | 21A                | UPDATE CA 18 IF    |         |
| 10367   |        | XA320     | 47  |        |           |     |      |             |      |       |                   | TC171A | 02      | TC1700   | 01    | 1      | TQ2              | D4    |                     | 25B                |                    |         |
| 10380   |        | XA320     | 48  |        | XA320     | 78  |      |             | 16B  | 9     |                   | TC18BQ | 05      | TU182A   | 01    | 1      | TQ2              | D2    |                     | 22A                |                    |         |
| 10369   |        | XA320     | 49  |        |           |     |      |             |      |       |                   | TC172A | 02      | TC1700   | 01    | 2      | TQ2              | D4    |                     | 26B                |                    |         |
| 10387   |        | XA320     | 50  |        | XA321     | 45  |      |             | 16B  | 9     |                   | TC19BP | 04      | TU182A   | 01    | 2      | TQ2              | D2    |                     | 23A                |                    |         |
| 10365   |        | XA320     | 51  |        |           |     |      |             |      |       |                   | TC1700 | 02      | TC1700   | 00    | 1      | TQ2              | D4    |                     | 27B                | CONTROL REG BIT    |         |
| 09629   |        | XA320     | 52  |        |           |     |      |             |      |       |                   | TCCK2A | 05      | TCCK2A   | 00    | 1      | TQ2              | D1    |                     | 24A                | CLK INPUT TC16-2   |         |
| 10386   |        | XA320     | 53  |        | XA320     | 50  |      |             | 16B  | 9     |                   | TC19BP | 03      | TACP0A   | 01    | 1      | TQ2              | E3    |                     | 28B                |                    |         |
| 13687   |        | XA320     | 54  |        | XA314     | 65  |      |             | 16B  | 9     |                   | TKAABB | 08      | TCCK2A   | 01    | 1      | TQ2              | D1    |                     | 25A                |                    |         |
| 10374   |        | XA320     | 55  |        | XA314     | 56  |      |             | 16B  | 9     |                   | TC18BP | 05      | TACP0A   | 01    | 2      | TQ2              | E3    |                     | 29B                |                    |         |
| 09700   |        | XA320     | 56  |        | XA320     | 08  |      |             | 16B  | 9     |                   | TC02A0 | 03      | TCCK2A   | 01    | 2      | TQ2              | D1    |                     | 26A                |                    |         |
| 08201   |        | XA320     | 57  |        | XA310     | 59  |      |             | 16B  | 9     |                   | TACP0A | 01      | TACP0A   | 00    | 1      | TQ2              | E3    |                     | 30B                | PAGE 0             |         |
| 02451   |        | XA320     | 58  |        |           |     |      |             |      |       |                   | GND    | 01      |          |       |        | TQ2              |       |                     | 27A                |                    |         |
| 10373   |        | XA320     | 59  |        | XA320     | 55  |      |             | 16B  | 9     |                   | TC18BP | 04      | TACP1A   | 01    | 1      | TQ2              | E4    |                     | 31B                |                    |         |
| 09376   |        | XA320     | 60  |        |           |     |      |             |      |       |                   | TCAC3A | 03      | TCAC3A   | 00    | 1      | TQ2              | E2    |                     | 28A                | TC CARRY GP3 FOR   |         |
| 10396   |        | XA320     | 61  |        | XA314     | 54  |      |             | 16B  | 9     |                   | TC19BQ | 05      | TACP1A   | 01    | 2      | TQ2              | E4    |                     | 32B                |                    |         |
| 16770   |        | XA320     | 62  |        | XA314     | 79  |      |             | 16B  | 9     |                   | TU2010 | 01      | TCAC3A   | 01    | 1      | TQ2              | E2    |                     | 29A                |                    |         |
| 08206   |        | XA320     | 63  |        | XA310     | 65  |      |             | 16B  | 9     |                   | TACP1A | 01      | TACP1A   | 00    | 1      | TQ2              | E4    |                     | 33B                | PAGE 1             |         |
| 10408   |        | XA320     | 64  |        | XA321     | 61  |      |             | 16B  | 9     |                   | TC20BQ | 04      | TCAC3A   | 01    | 2      | TQ2              | E2    |                     | 30A                |                    |         |
| 10436   |        | XA320     | 65  |        | XA309     | 68  |      |             | 16B  | 9     |                   | TC22BQ | 04      | TU201A   | 01    | 1      | TQ2              | F3    |                     | 34B                |                    |         |
| 09371   |        | XA320     | 66  |        |           |     |      |             |      |       |                   | TCAC2A | 03      | TCAC2A   | 00    | 1      | TQ2              | E1    |                     | 31A                | TC CARRY GP2 FOR   |         |
| 02452   |        | XA320     | 67  |        |           |     |      |             |      |       |                   | GND    | 01      |          |       |        | TQ2              |       |                     | 40A                |                    |         |
| 16756   |        | XA320     | 68  |        | XA314     | 13  |      |             | 16B  | 9     |                   | TU1710 | 01      | TCAC2A   | 01    | 1      | TQ2              | E1    |                     | 32A                |                    |         |
| 16767   |        | XA320     | 69  |        | XA316     | 61  |      |             | 16B  | 9     |                   | TU201A | 01      | TU201A   | 00    | 1      | TQ2              | F3    |                     | 35A                | UPDATE CA20 IF 2   |         |
| 10362   |        | XA320     | 70  |        | XA322     | 68  |      |             | 16B  | 9     |                   | TC17BQ | 05      | TCAC2A   | 01    | 2      | TQ2              | E1    |                     | 33A                |                    |         |
| 10427   |        | XA320     | 71  |        | XA315     | 71  |      |             | 16B  | 9     |                   | TC22BQ | 03      | TU212A   | 01    | 1      | TQ2              | F2    |                     | 36A                |                    |         |
| 16779   |        | XA320     | 72  |        |           |     |      |             |      |       |                   | TU212A | 02      | TU212A   | 00    | 1      | TQ2              | F2    |                     | 34A                | UPDATE CA21 IF 2   |         |
| CONNECTOR XA320 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |                   |        |         |          |       |        |                  |       |                     |                    |                    |         |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA320  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 208

| RECORD NUMBER                                     | FROM   |           |     | TO  |       |       | WIRE  |       |       |  | MULTI GROUP | CODE | COLOR | IDENT  | SIGNAL | SEQ NO | EQUATION | PACK FACTOR | PKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS LAND OR | SIGNAL DESCRIPTION | TCO NO           |  |
|---|--------|-----------|-----|-----|-------|-------|-------|-------|-------|--|-------------|------|-------|--------|--------|--------|----------|-------------|------------------|-------|---------------------|---------------------|--------------------|------------------|--|
|   | PREFIX | CONNECTOR | PIN | PIN | PIN   | EN 14 | EN 14 | EN 14 | EN 14 |  |             |      |       |        |        |        |          |             |                  |       |                     |                     |                    |                  |  |
| 10421   |        | XA320     | 73  |     | XA320 | 74    |       |       |       |  |             |      |       | TC218Q | 04     | TU212A | C1       | 2           | TQ2              | F2    |                     | 36B                 |                    |                  |  |
| 10422   |        | XA320     | 74  |     | XA321 | 55    |       |       |       |  |             |      |       | TC218Q | 05     | TU201A | C1       | 2           | TQ2              | F3    |                     | 35B                 |                    |                  |  |
| 16776   |        | XA320     | 75  |     | XA316 | 77    |       |       |       |  |             |      |       | TU211A | 01     | TU211A | 7/0      | 1           | TQ2              | F1    |                     | 37B                 |                    | UPDATE CA21 IF 2 |  |
| 10385   |        | XA320     | 76  |     | XA320 | 53    |       |       |       |  |             |      |       | TC198P | 02     | TACP2A | 01       | 1           | TQ2              | F4    |                     | 37A                 |                    |                  |  |
| 10435   |        | XA320     | 77  |     | XA320 | 65    |       |       |       |  |             |      |       | TC228Q | 03     | TU211A | 01       | 1           | TQ2              | F1    |                     | 38B                 |                    |                  |  |
| 10381   |        | XA320     | 78  |     | XA314 | 70    |       |       |       |  |             |      |       | TC188Q | 06     | TACP2A | 01       | 2           | TQ2              | F4    |                     | 38A                 |                    |                  |  |
| 10413   |        | XA320     | 79  |     | XA309 | 70    |       |       |       |  |             |      |       | TC218P | 03     | TU211A | 01       | 2           | TQ2              | F1    |                     | 39B                 |                    |                  |  |
| 08211   |        | XA320     | 80  |     | XA310 | 79    |       |       |       |  |             |      |       | TACP2A | 01     | TACP2A | 00       | 1           | TQ2              | F4    |                     | 39A                 |                    | PAGE 2           |  |
| 09613   |        | XA321     | 01  |     | XA321 | 10    |       |       |       |  |             |      |       | TCCKCA | 01     | TC138N | 01       | 1           | TDD              | BN    |                     | 02B                 |                    |                  |  |
| 02453   |        | XA321     | 02  |     |       |       |       |       |       |  |             |      |       | GND    | 01     |        |          |             | TDD              |       |                     | 01B                 |                    |                  |  |
| 04997   |        | XA321     | 03  |     | XA317 | 03    |       |       |       |  |             |      |       | SPI004 | 32     | TC138Q | 01       | 1           | TDD              | BQ    |                     | 02A                 |                    |                  |  |
| 05450   |        | XA321     | 04  |     | XA317 | 04    |       |       |       |  |             |      |       | SPI020 | 23     | TC138P | 01       | 1           | TDD              | BP    |                     | 04A                 |                    |                  |  |
| 11759   |        | XA321     | 05  |     | XA223 | 07    |       |       |       |  |             |      |       | TD138Q | 02     | TC138I | 01       | 1           | TDD              | BI    |                     | 03B                 |                    |                  |  |
| 05571   |        | XA321     | 06  |     | XA121 | 24    |       |       |       |  |             |      |       | SPI024 | 25     | TC128P | 01       | 1           | TDD              | AP    |                     | 05A                 |                    |                  |  |
| 10267   |        | XA321     | 07  |     | XA322 | 14    |       |       |       |  |             |      |       | TC138Q | 03     | TC138Q | 00       | 1           | TDD              | BQ    |                     | 03A                 |                    | CONTROL REG BIT  |  |
| 11730   |        | XA321     | 08  |     | XA340 | 30    |       |       |       |  |             |      |       | TD128Q | 06     | TC128I | 01       | 1           | TDD              | AI    |                     | 06A                 |                    |                  |  |
| 10257   |        | XA321     | 09  |     | XA320 | 05    |       |       |       |  |             |      |       | TC138P | 01     | TC138P | 00       | 1           | TDD              | BP    |                     | 04B                 |                    | CONTROL REG BIT  |  |
| 09614   |        | XA321     | 10  |     | XA321 | 14    |       |       |       |  |             |      |       | TCCKCA | 02     | TC128N | 01       | 1           | TDD              | AN    |                     | 07A                 |                    |                  |  |
| 10245   |        | XA321     | 11  |     | XA319 | 10    |       |       |       |  |             |      |       | TC128P | 02     | TC128P | 00       | 1           | TDD              | AP    |                     | 05B                 |                    | CONTROL REG BIT  |  |
| 00503   |        | XA321     | 12  |     |       |       |       |       |       |  |             |      |       | +5V    | 01     |        |          |             | TDD              |       |                     |                     |                    |                  |  |
| 10253   |        | XA321     | 13  |     | XA319 | 11    |       |       |       |  |             |      |       | TC128Q | 05     | TC128Q | 00       | 1           | TDD              | AQ    |                     | 06B                 |                    | CONTROL REG BIT  |  |
| 09615   |        | XA321     | 14  |     | XA321 | 26    |       |       |       |  |             |      |       | TCCKCA | 03     | TC158N | 01       | 1           | TDD              | DN    |                     | 09A                 |                    |                  |  |
| 05594   |        | XA321     | 15  |     | XA321 | 27    |       |       |       |  |             |      |       | SPI025 | 22     | TC128Q | 01       | 1           | TDD              | AQ    |                     | 07B                 |                    |                  |  |
| 02454   |        | XA321     | 16  |     |       |       |       |       |       |  |             |      |       | GND    | 01     |        |          |             | TDD              |       |                     | 20B                 |                    |                  |  |
| 04996   |        | XA321     | 17  |     | XA321 | 03    |       |       |       |  |             |      |       | SPI004 | 31     | TC158Q | 01       | 1           | TDD              | DQ    |                     | 08B                 |                    |                  |  |
| 10325   |        | XA321     | 18  |     |       |       |       |       |       |  |             |      |       | TC1500 | 02     | TC158I | 01       | 1           | TDD              | DI    |                     | 10A                 |                    |                  |  |
| 10316   |        | XA321     | 19  |     | XA320 | 19    |       |       |       |  |             |      |       | TC158Q | 03     | TC158Q | 00       | 1           | TDD              | DQ    |                     | 09B                 |                    | CONTROL REG BIT  |  |
| 05449   |        | XA321     | 20  |     | XA321 | 04    |       |       |       |  |             |      |       | SPI020 | 22     | TC158P | 01       | 1           | TDD              | DP    |                     | 11A                 |                    |                  |  |
| 10311   |        | XA321     | 21  |     | XA320 | 20    |       |       |       |  |             |      |       | TC158P | 04     | TC158P | 00       | 1           | TDD              | DP    |                     | 10B                 |                    | CONTROL REG BIT  |  |
| 05570   |        | XA321     | 22  |     | XA321 | 06    |       |       |       |  |             |      |       | SPI024 | 24     | TC148P | 01       | 1           | TDD              | CP    |                     | 12A                 |                    |                  |  |
| 10290   |        | XA321     | 23  |     | XA320 | 26    |       |       |       |  |             |      |       | TC148P | 02     | TC148P | 00       | 1           | TDD              | CP    |                     | 11B                 |                    | CONTROL REG BIT  |  |
| 10303   |        | XA321     | 24  |     |       |       |       |       |       |  |             |      |       | TC1400 | 02     | TC148I | 01       | 1           | TDD              | CI    |                     | 13A                 |                    |                  |  |
| 10297   |        | XA321     | 25  |     | XA320 | 18    |       |       |       |  |             |      |       | TC148Q | 04     | TC148Q | 00       | 1           | TDD              | CQ    |                     | 12B                 |                    | CONTROL REG BIT  |  |
| 09616   |        | XA321     | 26  |     | XA326 | 52    |       |       |       |  |             |      |       | TCCKCA | 04     | TC148N | 01       | 1           | TDD              | CN    |                     | 14A                 |                    |                  |  |
| 05595   |        | XA321     | 27  |     | XA321 | 39    |       |       |       |  |             |      |       | SPI025 | 23     | TC148Q | 01       | 1           | TDD              | CQ    |                     | 13B                 |                    |                  |  |
| 00504   |        | XA321     | 28  |     |       |       |       |       |       |  |             |      |       | +5V    | 01     |        |          |             | TDD              |       |                     |                     |                    |                  |  |
| 04995   |        | XA321     | 29  |     | XA321 | 17    |       |       |       |  |             |      |       | SPI004 | 30     | TC178Q | 01       | 1           | TDD              | FQ    |                     | 14B                 |                    |                  |  |
| 09623   |        | XA321     | 30  |     | XA320 | 06    |       |       |       |  |             |      |       | TCCK1A | 04     | TC178N | 01       | 1           | TDD              | FN    |                     | 15A                 |                    |                  |  |
| 10360   |        | XA321     | 31  |     | XA320 | 42    |       |       |       |  |             |      |       | TC178Q | 03     | TC178Q | 00       | 1           | TDD              | FQ    |                     | 15B                 |                    | CONTROL REG BIT  |  |
| 02455   |        | XA321     | 32  |     |       |       |       |       |       |  |             |      |       | GND    | 01     |        |          |             | TDD              |       |                     | 21B                 |                    |                  |  |
| 10354   |        | XA321     | 33  |     | XA320 | 36    |       |       |       |  |             |      |       | TC178P | 02     | TC178P | 00       | 1           | TDD              | FP    |                     | 16B                 |                    | CONTROL REG BIT  |  |
| 10364   |        | XA321     | 34  |     | XA320 | 51    |       |       |       |  |             |      |       | TC1700 | 01     | TC178I | 01       | 1           | TDD              | FI    |                     | 16A                 |                    |                  |  |
| 10335   |        | XA321     | 35  |     | XA320 | 40    |       |       |       |  |             |      |       | TC168P | 06     | TC168P | 00       | 1           | TDD              | EP    |                     | 17B                 |                    | CONTROL REG BIT  |  |
| 05448   |        | XA321     | 36  |     | XA321 | 20    |       |       |       |  |             |      |       | SPI020 | 21     | TC178P | 01       | 1           | TDD              | FP    |                     | 17A                 |                    |                  |  |
| 10339   |        | XA321     | 37  |     | XA320 | 34    |       |       |       |  |             |      |       | TC168Q | 01     | TC168Q | 00       | 1           | TDD              | EQ    |                     | 18B                 |                    | CONTROL REG BIT  |  |
| 05569   |        | XA321     | 38  |     | XA321 | 22    |       |       |       |  |             |      |       | SPI024 | 23     | TC168P | 01       | 1           | TDD              | EP    |                     | 18A                 |                    |                  |  |
| 05596   |        | XA321     | 39  |     | XA321 | 51    |       |       |       |  |             |      |       | SPI025 | 24     | TC168Q | 01       | 1           | TDD              | EQ    |                     | 19B                 |                    |                  |  |
| 10348   |        | XA321     | 40  |     |       |       |       |       |       |  |             |      |       | TC1600 | 02     | TC168I | 01       | 1           | TDD              | EI    |                     | 19A                 |                    |                  |  |
| CONNECTOR (XA321) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |       |       |       |       |       |  |             |      |       |        |        |        |          |             |                  |       |                     |                     |                    |                  |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA321  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 209

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD GP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------------|--------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |      |                  |       |                     |                    |                    |        |
| 05615   |        | XA321     | 41  |      | XA321  | 53        |     |      |             | 16B  | 9     |       | SPI026        | 07     | TC19BQ | 01       | 1    | TDD  | HQ               |       | 22B                 |                    |                    |        |
| 09622   |        | XA321     | 42  |      | XA321  | 30        |     |      |             | 16B  | 9     |       | TCCK1A        | 03     | TC168N | 01       | 1    | TDD  | EN               |       | 20A                 |                    |                    |        |
| 10394   |        | XA321     | 43  |      | XA322  | 66        |     |      |             | 16B  | 9     |       | TC19BQ        | 03     | TC19BQ | 00       | 1    | TDD  | HQ               |       | 23B                 | CONTROL REG BIT    |                    |        |
| 02456   |        | XA321     | 44  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | TDD  |                  |       | 27A                 |                    |                    |        |
| 10388   |        | XA321     | 45  |      | XA322  | 48        |     |      |             | 16B  | 9     |       | TC19BP        | 05     | TC19BP | 00       | 1    | TDD  | HP               |       | 24B                 | CONTROL REG BIT    |                    |        |
| 09621   |        | XA321     | 46  |      | XA321  | 42        |     |      |             | 16B  | 9     |       | TCCK1A        | 02     | TC19BN | 01       | 1    | TDD  | HN               |       | 21A                 |                    |                    |        |
| 10372   |        | XA321     | 47  |      | XA320  | 59        |     |      |             | 16B  | 9     |       | TC18BP        | 03     | TC18BP | 00       | 1    | TDD  | GP               |       | 25B                 | CONTROL REG BIT    |                    |        |
| 11966   |        | XA321     | 48  |      | XA230  | 71        |     |      |             | 16B  | 9     |       | TD19BQ        | 01     | TC19BI | 01       | 1    | TDD  | HI               |       | 22A                 |                    |                    |        |
| 10379   |        | XA321     | 49  |      | XA320  | 48        |     |      |             | 16B  | 9     |       | TC18BQ        | 04     | TC18BQ | 00       | 1    | TDD  | GQ               |       | 26B                 | CONTROL REG BIT    |                    |        |
| 05447   |        | XA321     | 50  |      | XA321  | 36        |     |      |             | 16B  | 9     |       | SPI020        | 20     | TC19BP | 01       | 1    | TDD  | HP               |       | 23A                 |                    |                    |        |
| 05597   |        | XA321     | 51  |      | XA321  | 63        |     |      |             | 16B  | 9     |       | SPI025        | 25     | TC18BQ | 01       | 1    | TDD  | GQ               |       | 27B                 |                    |                    |        |
| 05568   |        | XA321     | 52  |      | XA321  | 38        |     |      |             | 16B  | 9     |       | SPI024        | 22     | TC18BP | 01       | 1    | TDD  | GP               |       | 24A                 |                    |                    |        |
| 05616   |        | XA321     | 53  |      | XA321  | 65        |     |      |             | 16B  | 9     |       | SPI026        | 08     | TC21BQ | 01       | 1    | TDD  | KQ               |       | 28B                 |                    |                    |        |
| 11941   |        | XA321     | 54  |      | XA225  | 49        |     |      |             | 16B  | 9     |       | TD18C0        | 03     | TC18BI | 01       | 1    | TDD  | GI               |       | 25A                 |                    |                    |        |
| 10423   |        | XA321     | 55  |      | XA322  | 49        |     |      |             | 16B  | 9     |       | TC21BQ        | 06     | TC21BQ | 00       | 1    | TDD  | KQ               |       | 29B                 | CONTROL REG BIT    |                    |        |
| 09620   |        | XA321     | 56  |      | XA321  | 46        |     |      |             | 16B  | 9     |       | TCCK1A        | 01     | TC18BN | 01       | 1    | TDD  | GN               |       | 26A                 |                    |                    |        |
| 10411   |        | XA321     | 57  |      | XA322  | 70        |     |      |             | 16B  | 9     |       | TC21BP        | 01     | TC21BP | 00       | 1    | TDD  | KP               |       | 30B                 | CONTROL REG BIT    |                    |        |
| 02457   |        | XA321     | 58  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | TDD  |                  |       | 40A                 |                    |                    |        |
| 10403   |        | XA321     | 59  |      | XA316  | 59        |     |      |             | 16B  | 9     |       | TC20BP        | 04     | TC20BP | 00       | 1    | TDD  | JP               |       | 31B                 | CONTROL REG BIT    |                    |        |
| 09628   |        | XA321     | 60  |      | XA320  | 52        |     |      |             | 16B  | 9     |       | TCCK2A        | 04     | TC21BN | 01       | 1    | TDD  | KN               |       | 28A                 |                    |                    |        |
| 10409   |        | XA321     | 61  |      | XA322  | 56        |     |      |             | 16B  | 9     |       | TC20BQ        | 05     | TC20BQ | 00       | 1    | TDD  | JQ               |       | 32B                 | CONTROL REG BIT    |                    |        |
| 12038   |        | XA321     | 62  |      | XA407  | 19        |     |      |             | 16B  | 9     |       | TD21BQ        | 06     | TC21BI | 01       | 1    | TDD  | KI               |       | 29A                 |                    |                    |        |
| 05598   |        | XA321     | 63  |      | XA321  | 80        |     |      |             | 16B  | 9     |       | SPI025        | 26     | TC20BQ | 01       | 1    | TDD  | JQ               |       | 33B                 |                    |                    |        |
| 05446   |        | XA321     | 64  |      | XA321  | 50        |     |      |             | 16B  | 9     |       | SPI020        | 19     | TC21BP | 01       | 1    | TDD  | KP               |       | 30A                 |                    |                    |        |
| 05617   |        | XA321     | 65  |      | XA416  | 33        |     |      |             | 16B  | 9     |       | SPI026        | 09     | TC23BQ | 01       | 1    | TDD  | MQ               |       | 34B                 |                    |                    |        |
| 05567   |        | XA321     | 66  |      | XA321  | 52        |     |      |             | 16B  | 9     |       | SPI024        | 21     | TC20BP | 01       | 1    | TDD  | JP               |       | 31A                 |                    |                    |        |
| 02458   |        | XA321     | 67  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | TDD  |                  |       | 40B                 |                    |                    |        |
| 12003   |        | XA321     | 68  |      | XA407  | 18        |     |      |             | 16B  | 9     |       | TD20BQ        | 06     | TC20BI | 01       | 1    | TDD  | JI               |       | 32A                 |                    |                    |        |
| 10441   |        | XA321     | 69  |      | XA316  | 71        |     |      |             | 16B  | 9     |       | TC23BP        | 02     | TC23BP | 00       | 1    | TDD  | MP               |       | 35A                 | CONTROL REG BIT    |                    |        |
| 09627   |        | XA321     | 70  |      | XA321  | 60        |     |      |             | 16B  | 9     |       | TCCK2A        | 03     | TC20BN | 01       | 1    | TDD  | JN               |       | 33A                 |                    |                    |        |
| 12110   |        | XA321     | 71  |      | XA416  | 70        |     |      |             | 16B  | 9     |       | TD23BQ        | 06     | TC23BI | 01       | 1    | TDD  | MI               |       | 36A                 |                    |                    |        |
| 09626   |        | XA321     | 72  |      | XA321  | 70        |     |      |             | 16B  | 9     |       | TCCK2A        | 02     | TC23BN | 01       | 1    | TDD  | MN               |       | 34A                 |                    |                    |        |
| 05445   |        | XA321     | 73  |      | XA321  | 64        |     |      |             | 16B  | 9     |       | SPI020        | 18     | TC23BP | 01       | 1    | TDD  | MP               |       | 36B                 |                    |                    |        |
| 10453   |        | XA321     | 74  |      | XA322  | 43        |     |      |             | 16B  | 9     |       | TC23BQ        | 07     | TC23BQ | 00       | 1    | TDD  | MQ               |       | 35B                 | CONTROL REG BIT    |                    |        |
| 05566   |        | XA321     | 75  |      | XA321  | 66        |     |      |             | 16B  | 9     |       | SPI024        | 20     | TC22BP | 01       | 1    | TDD  | LP               |       | 37B                 |                    |                    |        |
| 10426   |        | XA321     | 76  |      | XA320  | 71        |     |      |             | 16B  | 9     |       | TC22BP        | 02     | TC22BP | 00       | 1    | TDD  | LP               |       | 37A                 | CONTROL REG BIT    |                    |        |
| 12074   |        | XA321     | 77  |      | XA407  | 25        |     |      |             | 16B  | 9     |       | TD22BQ        | 06     | TC22BI | 01       | 1    | TDD  | LI               |       | 38B                 |                    |                    |        |
| 10434   |        | XA321     | 78  |      | XA320  | 77        |     |      |             | 16B  | 9     |       | TC22BQ        | 02     | TC22BQ | 00       | 1    | TDD  | LQ               |       | 38A                 | CONTROL REG BIT    |                    |        |
| 09625   |        | XA321     | 79  |      | XA321  | 72        |     |      |             | 16B  | 9     |       | TCCK2A        | 01     | TC22BN | 01       | 1    | TDD  | LN               |       | 39B                 |                    |                    |        |
| 05600   |        | XA321     | 80  |      | XA317  | 80        |     |      |             | 16B  | 9     |       | SPI025        | 28     | TC22BQ | 01       | 1    | TDD  | LQ               |       | 39A                 |                    |                    |        |
| 10088   |        | XA322     | 01  |      | XA332  | 20        |     |      |             | 16B  | 9     |       | TC03BQ        | 01     | TCM14A | 01       | 1    | TS8  | A1               |       | 02B                 |                    |                    |        |
| 02459   |        | XA322     | 02  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | TS8  |                  |       | 01A                 |                    |                    |        |
| 01160   |        | XA322     | 03  |      |        |           |     |      |             |      |       |       | DNW           | 01     |        |          |      | TS8  |                  |       |                     |                    |                    |        |
| 10123   |        | XA322     | 04  |      | XA327  | 37        |     |      |             | 16B  | 9     |       | TC06BP        | 02     | TCM14A | 01       | 2    | TS8  | A1               |       | 04A                 |                    |                    |        |
| 10142   |        | XA322     | 05  |      | XA319  | 68        |     |      |             | 16B  | 9     |       | TC07BP        | 07     | TCM14A | 01       | 3    | TS8  | A1               |       | 03B                 |                    |                    |        |
| 10101   |        | XA322     | 06  |      |        |           |     |      |             |      |       |       | TC04BP        | 08     | TCM14A | 01       | 4    | TS8  | A1               |       | 05A                 |                    |                    |        |
| 10076   |        | XA322     | 07  |      |        |           |     |      |             |      |       |       | TC02BP        | 04     | TCM14A | 01       | 5    | TS8  | A1               |       | 03A                 |                    |                    |        |
| 10114   |        | XA322     | 08  |      |        |           |     |      |             |      |       |       | TC05BP        | 06     | TCM14A | 01       | 6    | TS8  | A1               |       | 06A                 |                    |                    |        |
| CONNECTOR (XA322) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |               |        |        |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA322  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 210

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SIGNAL | SFG NO | EQUATION | TERM   | FACTOR | CKT OR SHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | DR PC | MULTI GROUP | CODE | COLOR |        |        |          |        |        |                  |       |                     |                    |                    |                  |
| 01161   |        | XA322     | 09  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10063   |        | XA322     | 10  |        |           |     |       |             |      |       |        | TCJ08Q | 04       | TCM14A | 01     | 7                | TS8   | A1                  |                    | 07A                |                  |
| 09782   |        | XA322     | 11  |        | XA324     | 04  |       |             | 16B  | 9     |        | TCM14A | 01       | TCM14A | 00     | 1                | TS8   | A1                  |                    | 05B                | BYTE 1 OF WD 2 B |
| 00505   |        | XA322     | 12  |        |           |     |       |             |      |       |        | +5V    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10072   |        | XA322     | 13  |        |           |     |       |             |      |       |        | TC01BQ | 04       | TCM14A | 01     | 8                | TS8   | A1                  |                    | 06B                |                  |
| 10268   |        | XA322     | 14  |        | XA324     | 29  |       |             | 16B  | 9     |        | TC13BQ | 04       | TCM22A | 01     | 1                | TS8   | B1                  |                    | 09A                |                  |
| 01162   |        | XA322     | 15  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 02460   |        | XA322     | 16  |        |           |     |       |             |      |       |        | GND    | 01       |        |        |                  |       |                     |                    |                    | 21B              |
| 01163   |        | XA322     | 17  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10300   |        | XA322     | 18  |        | XA323     | 61  |       |             | 16B  | 9     |        | TC14BQ | 07       | TCM22A | 01     | 2                | TS8   | B1                  |                    | 10A                |                  |
| TC168   |        | XA322     | 19  |        | XA324     | 43  |       |             | 16B  | 9     |        | TCJ8CA | 01       | TCM22A | 01     | 3                | TS8   | B1                  |                    | 09B                |                  |
| 10204   |        | XA322     | 20  |        |           |     |       |             |      |       |        | TC10BQ | 07       | TCM22A | 01     | 4                | TS8   | B1                  |                    | 11A                |                  |
| 01164   |        | XA322     | 21  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10182   |        | XA322     | 22  |        | XA326     | 59  |       |             | 16B  | 9     |        | TC09BP | 01       | TCM22A | 01     | 5                | TS8   | B1                  |                    | 12A                |                  |
| 09786   |        | XA322     | 23  |        | XA324     | 22  |       |             | 16B  | 9     |        | TCM22A | 01       | TCM22A | 00     | 1                | TS8   | B1                  |                    | 11B                | BYTE 2 OF WD 1 B |
| 10323   |        | XA322     | 24  |        |           |     |       |             |      |       |        | TC15C0 | 02       | TCM22A | 01     | 6                | TS8   | B1                  |                    | 13A                |                  |
| 10251   |        | XA322     | 25  |        | XA319     | 22  |       |             | 16B  | 9     |        | TC12BQ | 03       | TCM22A | 01     | 7                | TS8   | B1                  |                    | 12B                |                  |
| 10232   |        | XA322     | 26  |        |           |     |       |             |      |       |        | TC11CA | 11       | TCM22A | 01     | 8                | TS8   | B1                  |                    | 14A                |                  |
| 01165   |        | XA322     | 27  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 00506   |        | XA322     | 28  |        |           |     |       |             |      |       |        | +5V    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 01166   |        | XA322     | 29  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10191   |        | XA322     | 30  |        |           |     |       |             |      |       |        | TC09BQ | 04       | TCM24A | 01     | 1                | TS8   | C1                  |                    | 15A                |                  |
| 10197   |        | XA322     | 31  |        |           |     |       |             |      |       |        | TC10BP | 06       | TCM24A | 01     | 2                | TS8   | C1                  |                    | 15B                |                  |
| 02461   |        | XA322     | 32  |        |           |     |       |             |      |       |        | GND    | 01       |        |        |                  |       |                     |                    |                    | 27A              |
| 01167   |        | XA322     | 33  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10181   |        | XA322     | 34  |        |           |     |       |             |      |       |        | TC08C0 | 07       | TCM24A | 01     | 3                | TS8   | C1                  |                    | 16A                |                  |
| 09790   |        | XA322     | 35  |        | XA324     | 38  |       |             | 16B  | 9     |        | TCM24A | 01       | TCM24A | 00     | 1                | TS8   | C1                  |                    | 17B                | BYTE 2 OF WD 2 B |
| 10214   |        | XA322     | 36  |        | XA323     | 40  |       |             | 16B  | 9     |        | TC11RQ | 02       | TCM24A | 01     | 4                | TS8   | C1                  |                    | 17A                |                  |
| 10272   |        | XA322     | 37  |        | XA324     | 30  |       |             | 16B  | 9     |        | TC13CA | 01       | TCM24A | 01     | 5                | TS8   | C1                  |                    | 18B                |                  |
| 10244   |        | XA322     | 38  |        | XA321     | 11  |       |             | 16B  | 9     |        | TC12BP | 01       | TCM24A | 01     | 6                | TS8   | C1                  |                    | 18A                |                  |
| 01168   |        | XA322     | 39  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10310   |        | XA322     | 40  |        | XA321     | 21  |       |             | 16B  | 9     |        | TC15BP | 03       | TCM24A | 01     | 7                | TS8   | C1                  |                    | 19A                |                  |
| 01169   |        | XA322     | 41  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10293   |        | XA322     | 42  |        |           |     |       |             |      |       |        | TC14BP | 05       | TCM24A | 01     | 8                | TS8   | C1                  |                    | 20A                |                  |
| 10454   |        | XA322     | 43  |        |           |     |       |             |      |       |        | TC23BQ | 08       | TCM32A | 01     | 1                | TS8   | D1                  |                    | 23B                |                  |
| 02462   |        | XA322     | 44  |        |           |     |       |             |      |       |        | GND    | 01       |        |        |                  |       |                     |                    |                    | 40A              |
| 01170   |        | XA322     | 45  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10378   |        | XA322     | 46  |        | XA321     | 49  |       |             | 16B  | 9     |        | TC18BQ | 03       | TCM32A | 01     | 2                | TS8   | D1                  |                    | 21A                |                  |
| 09794   |        | XA322     | 47  |        | XA324     | 52  |       |             | 16B  | 9     |        | TCM32A | 01       | TCM32A | 00     | 1                | TS8   | D1                  |                    | 25B                | BYTE 3 OF WD 1 B |
| 10389   |        | XA322     | 48  |        | XA134     | 08  |       |             | 16B  | 9     |        | TC19BP | 06       | TCM32A | 01     | 3                | TS8   | D1                  |                    | 22A                |                  |
| 10424   |        | XA322     | 49  |        |           |     |       |             |      |       |        | TC21BQ | 07       | TCM32A | 01     | 4                | TS8   | D1                  |                    | 26B                |                  |
| 10356   |        | XA322     | 50  |        | XA316     | 64  |       |             | 16B  | 9     |        | TC17BP | 04       | TCM32A | 01     | 5                | TS8   | D1                  |                    | 23A                |                  |
| 01171   |        | XA322     | 51  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10433   |        | XA322     | 52  |        | XA321     | 78  |       |             | 16B  | 9     |        | TC22BQ | 01       | TCM32A | 01     | 6                | TS8   | D1                  |                    | 24A                |                  |
| 01172   |        | XA322     | 53  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 10337   |        | XA322     | 54  |        | XA340     | 77  |       |             | 16B  | 9     |        | TC16BP | 08       | TCM32A | 01     | 7                | TS8   | D1                  |                    | 25A                |                  |
| 10425   |        | XA322     | 55  |        | XA321     | 76  |       |             | 16B  | 9     |        | TC22BP | 01       | TCM34A | 01     | 1                | TS8   | E1                  |                    | 29B                |                  |
| 10410   |        | XA322     | 56  |        |           |     |       |             |      |       |        | TC20BQ | 06       | TCM32A | 01     | 8                | TS8   | D1                  |                    | 26A                |                  |
| 01173   |        | XA322     | 57  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 02463   |        | XA322     | 58  |        |           |     |       |             |      |       |        | GND    | 01       |        |        |                  |       |                     |                    |                    |                  |
| CONNECTOR (XA322) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |        |        |          |        |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA322  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 211

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SIGNAL | SEG NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | GAUGE | MULTI GROUP | CODE | COLOR |        |        |          |        |        |                  |       |                     |                    |                    |                  |
| 09798   |        | XA322     | 59  |        | XA324     | 64  |       |             | 168  | 9     |        | TCM34A | 01       | TCM34A | 00     | 1                | TS8   | E1                  |                    | 31R                | BYTE 3 OF WD 2 B |
| 10440   |        | XA322     | 60  |        | XA321     | 69  |       |             | 168  | 9     |        | TC23BP | 01       | TCM34A | 01     | 2                | TS8   | E1                  |                    | 28A                |                  |
| 10346   |        | XA322     | 61  |        |           |     |       |             |      |       |        | TC16C0 | 02       | TCM34A | 01     | 3                | TS8   | E1                  |                    | 32B                | 29A              |
| 10402   |        | XA322     | 62  |        | XA321     | 59  |       |             | 168  | 9     |        | TC20BP | 03       | TCM34A | 01     | 4                | TS8   | E1                  |                    | 29A                |                  |
| 01174   |        | XA322     | 63  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    | 30A              |
| 10371   |        | XA322     | 64  |        | XA321     | 47  |       |             | 168  | 9     |        | TC18BP | 02       | TCM34A | 01     | 5                | TS8   | E1                  |                    | 30A                |                  |
| 01175   |        | XA322     | 65  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    | 31A              |
| 10395   |        | XA322     | 66  |        | XA320     | 61  |       |             | 168  | 9     |        | TC19BQ | 04       | TCM34A | 01     | 6                | TS8   | E1                  |                    | 31A                |                  |
| 02464   |        | XA322     | 67  |        |           |     |       |             |      |       |        | GND    | 01       |        |        |                  | TS8   |                     |                    |                    | 32A              |
| 10363   |        | XA322     | 68  |        |           |     |       |             |      |       |        | TC17BQ | 06       | TCM34A | 01     | 7                | TS8   | E1                  |                    | 32A                |                  |
| 01176   |        | XA322     | 69  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    | 33A              |
| 10412   |        | XA322     | 70  |        | XA320     | 79  |       |             | 168  | 9     |        | TC21BP | 02       | TCM34A | 01     | 8                | TS8   | E1                  |                    | 33A                |                  |
| 10518   |        | XA322     | 71  |        | XA326     | 73  |       |             | 168  | 9     |        | TC29BQ | 05       | TCM42A | 01     | 1                | TS8   | F1                  |                    | 36A                | 34A              |
| 10482   |        | XA322     | 72  |        | XA315     | 49  |       |             | 168  | 9     |        | TC26BQ | 01       | TCM42A | 01     | 2                | TS8   | F1                  |                    | 34A                |                  |
| 10533   |        | XA322     | 73  |        | XA323     | 38  |       |             | 168  | 9     |        | TC30BQ | 06       | TCM42A | 01     | 3                | TS8   | F1                  |                    | 36B                | 35B              |
| 10455   |        | XA322     | 74  |        | XA317     | 11  |       |             | 168  | 9     |        | TC24BP | 01       | TCM42A | 01     | 4                | TS8   | F1                  |                    | 35B                |                  |
| 10466   |        | XA322     | 75  |        | XA317     | 09  |       |             | 168  | 9     |        | TC25BP | 01       | TCM42A | 01     | 5                | TS8   | F1                  |                    | 37B                | BYTE 4 OF WD 1 B |
| 09802   |        | XA322     | 76  |        | XA324     | 76  |       |             | 168  | 9     |        | TCM42A | 00       | 1      | TS8    | F1               |       |                     |                    | 37A                |                  |
| 10503   |        | XA322     | 77  |        | XA317     | 37  |       |             | 168  | 9     |        | TC28BQ | 01       | TCM42A | 01     | 6                | TS8   | F1                  |                    | 38B                | 38A              |
| 10557   |        | XA322     | 78  |        | XA323     | 42  |       |             | 168  | 9     |        | TC31C0 | 02       | TCM42A | 01     | 7                | TS8   | F1                  |                    | 38A                |                  |
| 10490   |        | XA322     | 79  |        |           |     |       |             |      |       |        | TC27BP | 04       | TCM42A | 01     | 8                | TS8   | F1                  |                    | 39B                |                  |
| 01177   |        | XA322     | 80  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 10238   |        | XA323     | 01  |        | XA323     | 06  |       |             | 168  | 9     |        | TC11C0 | 06       | TMLUAA | 01     | 1                | TD4   | A2                  |                    | 02B                | 01A              |
| 02465   |        | XA323     | 02  |        |           |     |       |             |      |       |        | GND    | 01       |        |        |                  | TD4   |                     |                    | 01A                |                  |
| 01178   |        | XA323     | 03  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |                  |
| 15958   |        | XA323     | 04  |        | XA323     | 08  |       |             | 168  | 9     |        | TS0720 | 01       | TMLUAA | 01     | 2                | TD4   | A2                  |                    | 04A                |                  |
| 10275   |        | XA323     | 05  |        | XA137     | 71  |       |             | 168  | 9     |        | TC13CA | 04       | TMLUAA | 01     | 3                | TD4   | A2                  |                    | 03B                | 05A              |
| 10239   |        | XA323     | 06  |        | XA323     | 14  |       |             | 168  | 9     |        | TC11C0 | 07       | TMLLAA | 01     | 1                | TD4   | A1                  |                    | 05A                |                  |
| 10553   |        | XA323     | 07  |        |           |     |       |             |      |       |        | TC31BQ | 08       | TMLUAA | 01     | 4                | TD4   | A2                  |                    | 03A                | 06A              |
| 15959   |        | XA323     | 08  |        | XA323     | 20  |       |             | 168  | 9     |        | TS0720 | 02       | TMLLAA | 01     | 2                | TD4   | A1                  |                    | 06A                |                  |
| 14149   |        | XA323     | 09  |        | XA224     | 78  |       |             | 168  | 9     |        | TMLUAA | 01       | TMLUAA | 00     | 1                | TD4   | A2                  |                    | 04B                | TD16-23 TO TE00- |
| 10278   |        | XA323     | 10  |        | XA323     | 22  |       |             | 168  | 9     |        | TC13C0 | 01       | TMLLAA | 01     | 3                | TD4   | A1                  |                    | 07A                |                  |
| 14139   |        | XA323     | 11  |        |           |     |       |             |      |       |        | TMLLAA | 02       | TMLLAA | 00     | 1                | TD4   | A1                  |                    | 05B                | TD24-31 TO TE00- |
| 00507   |        | XA323     | 12  |        |           |     |       |             |      |       |        | +5V    | 01       |        |        |                  | TD4   |                     |                    | 05B                |                  |
| 10552   |        | XA323     | 13  |        | XA323     | 07  |       |             | 168  | 9     |        | TC31BQ | 07       | TMLLAA | 01     | 4                | TD4   | A1                  |                    | 06B                | 09A              |
| 10240   |        | XA323     | 14  |        | XA323     | 25  |       |             | 168  | 9     |        | TC11C0 | 08       | TMLUAA | 01     | 1                | TD4   | B2                  |                    | 09A                |                  |
| 01179   |        | XA323     | 15  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |                  |
| 02466   |        | XA323     | 16  |        |           |     |       |             |      |       |        | GND    | 01       |        |        |                  | TD4   |                     |                    | 20B                |                  |
| 01180   |        | XA323     | 17  |        |           |     |       |             |      |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                    |                    |                  |
| 10543   |        | XA323     | 18  |        | XA323     | 26  |       |             | 168  | 9     |        | TC31BP | 07       | TMLUAA | 01     | 2                | TD4   | B2                  |                    | 10A                |                  |
| 10274   |        | XA323     | 19  |        | XA323     | 05  |       |             | 168  | 9     |        | TC13CA | 03       | TMLUAA | 01     | 3                | TD4   | B2                  |                    | 09B                | 11A              |
| 15960   |        | XA323     | 20  |        | XA323     | 24  |       |             | 168  | 9     |        | TS0720 | 03       | TMLUAA | 01     | 4                | TD4   | B2                  |                    | 11A                |                  |
| 14407   |        | XA323     | 21  |        | XA324     | 23  |       |             | 168  | 9     |        | TMLUAA | 01       | TMLUAA | 00     | 1                | TD4   | B2                  |                    | 10B                | 12A              |
| 10279   |        | XA323     | 22  |        | XA324     | 37  |       |             | 168  | 9     |        | TC13C0 | 02       | TMLLAA | 01     | 1                | TD4   | B1                  |                    | 12A                |                  |
| 14396   |        | XA323     | 23  |        | XA324     | 15  |       |             | 168  | 9     |        | TMLLAA | 01       | TMLLAA | 00     | 1                | TD4   | B1                  |                    | 11B                | TD08-15 TO TE00- |
| 15661   |        | XA323     | 24  |        | XA326     | 78  |       |             | 168  | 9     |        | TS0720 | 04       | TMLLAA | 01     | 2                | TD4   | B1                  |                    | 13A                |                  |
| 10241   |        | XA323     | 25  |        | XA319     | 45  |       |             | 168  | 9     |        | TC11C0 | 09       | TMLLAA | 01     | 3                | TD4   | B1                  |                    | 12B                |                  |
| 10544   |        | XA323     | 26  |        | XA327     | 18  |       |             | 168  | 9     |        | TC31BP | 08       | TMLLAA | 01     | 4                | TD4   | B1                  |                    | 14A                |                  |
| CONNECTOR (XA323) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |        |        |          |        |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA323  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 212

| RECORD NUMBER                                   | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | ENFG | PREFIX | CONNECTOR | PIN | ENFG | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01181   |        | XA323     | 27  |      |        |           |     |      |             |      |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 00508   |        | XA323     | 28  |      |        |           |     |      |             |      |       | +5V    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 01182   |        | XA323     | 29  |      |        |           |     |      |             |      |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 09367   |        | XA323     | 30  |      | XA314  | 27        |     |      | 16B         | 9    |       | TCAC1A | 01     | TCAM1A   | 01   | 1      | TD4              | C2    |                     | 15A                |                    |        |
| 09410   |        | XA323     | 31  |      |        |           |     |      |             |      |       | TCAM1A | 02     | TCAM1A   | 01   | 2      | TD4              | C2    |                     | 19B                |                    |        |
| 02467   |        | XA323     | 32  |      |        |           |     |      |             |      |       | GND    | 01     |          |      |        | TD4              |       |                     | 21B                |                    |        |
| 09429   |        | XA323     | 33  |      | XA324  | 33        |     |      | 16B         | 9    |       | TCAM1A | 01     | TCAM1A   | 00   | 1      | TD4              | C2    |                     | 16B                | CA MODIFY FOR GR   |        |
| 10281   |        | XA323     | 34  |      | XA319  | 30        |     |      | 16B         | 9    |       | TC13C0 | 04     | TCAM1A   | 01   | 3      | TD4              | C2    |                     | 16A                |                    |        |
| 09403   |        | XA323     | 35  |      |        |           |     |      |             |      |       | TCAC7A | 02     | TCAC7A   | 00   | 1      | TD4              | C1    |                     | 17B                | TC CARRY GP6 FOR   |        |
| 13900   |        | XA323     | 36  |      | XA308  | 42        |     |      | 16B         | 9    |       | TKWXA0 | 07     | TCAM1A   | 01   | 4      | TD4              | C2    |                     | 17A                |                    |        |
| 10521   |        | XA323     | 37  |      |        |           |     |      |             |      |       | TC29BQ | 08     | TCAC7A   | 01   | 1      | TD4              | C1    |                     | 18B                |                    |        |
| 10534   |        | XA323     | 38  |      | XA327  | 45        |     |      | 16B         | 9    |       | TC30BQ | 07     | TCAC7A   | 01   | 2      | TD4              | C1    |                     | 18A                |                    |        |
| 01183   |        | XA323     | 39  |      |        |           |     |      |             |      |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 10215   |        | XA323     | 40  |      | XA327  | 41        |     |      | 16B         | 9    |       | TC11BQ | 03     | TCAC7A   | 01   | 3      | TD4              | C1    |                     | 19A                |                    |        |
| 01184   |        | XA323     | 41  |      |        |           |     |      |             |      |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 10558   |        | XA323     | 42  |      | XA319  | 49        |     |      | 16B         | 9    |       | TC31C0 | 03     | TCAC7A   | 01   | 4      | TD4              | C1    |                     | 20A                |                    |        |
| 15112   |        | XA323     | 43  |      | XA351  | 51        |     |      | 16B         | 9    |       | TQRSA0 | 04     | TDQ07A   | 01   | 1      | TD4              | D2    |                     | 23B                |                    |        |
| 02468   |        | XA323     | 44  |      |        |           |     |      |             |      |       | GND    | 01     |          |      |        | TD4              |       |                     | 27A                |                    |        |
| 11097   |        | XA323     | 45  |      |        |           |     |      |             |      |       | TDQ07A | 02     | TDQ07A   | 00   | 1      | TD4              | D2    |                     | 24B                | Q REG SEC TC07 T   |        |
| 14471   |        | XA323     | 46  |      | XA323  | 49        |     |      | 16B         | 9    |       | TM01C0 | 04     | TDQ07A   | 01   | 2      | TD4              | D2    |                     | 21A                |                    |        |
| 11094   |        | XA323     | 47  |      | XA224  | 47        |     |      | 16B         | 9    |       | TDQ06A | 01     | TDQ06A   | 00   | 1      | TD4              | D1    |                     | 25B                | Q REG SEC TC06.T   |        |
| 10149   |        | XA323     | 48  |      | XA227  | 78        |     |      | 16B         | 9    |       | TC07BQ | 06     | TDQ07A   | 01   | 3      | TD4              | D2    |                     | 22A                |                    |        |
| 14472   |        | XA323     | 49  |      | XA323  | 55        |     |      | 16B         | 9    |       | TM01C0 | 05     | TDQ06A   | 01   | 1      | TD4              | D1    |                     | 26B                |                    |        |
| 10154   |        | XA323     | 50  |      | XA325  | 50        |     |      | 16B         | 9    |       | TC08BP | 04     | TDQ07A   | 01   | 4      | TD4              | D2    |                     | 23A                |                    |        |
| 01185   |        | XA323     | 51  |      |        |           |     |      |             |      |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 10153   |        | XA323     | 52  |      | XA323  | 50        |     |      | 16B         | 9    |       | TC08BP | 03     | TDQ06A   | 01   | 2      | TD4              | D1    |                     | 24A                |                    |        |
| 01186   |        | XA323     | 53  |      |        |           |     |      |             |      |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 10135   |        | XA323     | 54  |      |        |           |     |      |             |      |       | TC06BQ | 07     | TDQ06A   | 01   | 3      | TD4              | D1    |                     | 25A                |                    |        |
| 14473   |        | XA323     | 55  |      | XA325  | 55        |     |      | 16B         | 9    |       | TM01C0 | 06     | TDQ15A   | 01   | 1      | TD4              | E2    |                     | 29B                |                    |        |
| 15111   |        | XA323     | 56  |      | XA323  | 43        |     |      | 16B         | 9    |       | TQRSA0 | 03     | TDQ06A   | 01   | 4      | TD4              | D1    |                     | 26A                |                    |        |
| 11101   |        | XA323     | 57  |      |        |           |     |      |             |      |       | TDQ15A | 02     | TDQ15A   | 00   | 1      | TD4              | E2    |                     | 30B                | Q REG SEL TC15 T   |        |
| 02469   |        | XA323     | 58  |      |        |           |     |      |             |      |       | GND    | 01     |          |      |        | TD4              |       |                     | 40A                |                    |        |
| 11098   |        | XA323     | 59  |      | XA224  | 49        |     |      | 16B         | 9    |       | TDQ14A | 01     | TDQ14A   | 00   | 1      | TD4              | E1    |                     | 31B                | Q REG SEL TC14 T   |        |
| 10161   |        | XA323     | 60  |      | XA323  | 68        |     |      | 16B         | 9    |       | TC08BQ | 02     | TDQ15A   | 01   | 2      | TD4              | E2    |                     | 28A                |                    |        |
| 10301   |        | XA323     | 61  |      |        |           |     |      |             |      |       | TC14BQ | 08     | TDQ14A   | 01   | 1      | TD4              | E1    |                     | 32B                |                    |        |
| 10314   |        | XA323     | 62  |      | XA320  | 24        |     |      | 16B         | 9    |       | TC15BQ | 01     | TDQ15A   | 01   | 3      | TD4              | E2    |                     | 29A                |                    |        |
| 01187   |        | XA323     | 63  |      |        |           |     |      |             |      |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 15110   |        | XA323     | 64  |      | XA323  | 56        |     |      | 16B         | 9    |       | TQRSA0 | 02     | TDQ15A   | 01   | 4      | TD4              | E2    |                     | 30A                |                    |        |
| 01188   |        | XA323     | 65  |      |        |           |     |      |             |      |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 14470   |        | XA323     | 66  |      | XA323  | 46        |     |      | 16B         | 9    |       | TM01C0 | 03     | TDQ14A   | 01   | 2      | TD4              | E1    |                     | 31A                |                    |        |
| 02470   |        | XA323     | 67  |      |        |           |     |      |             |      |       | GND    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 10162   |        | XA323     | 68  |      | XA323  | 77        |     |      | 16B         | 9    |       | TC08BQ | 03     | TDQ14A   | 01   | 3      | TD4              | E1    |                     | 40B                |                    |        |
| 16864   |        | XA323     | 69  |      | XA330  | 62        |     |      | 16B         | 9    |       | TWD1AA | 01     | TWD1AA   | 00   | 1      | TD4              | F2    |                     | 35A                | WRITE DATA WORD    |        |
| 15109   |        | XA323     | 70  |      | XA323  | 64        |     |      | 16B         | 9    |       | TQRSA0 | 01     | TDQ14A   | 01   | 4      | TD4              | E1    |                     | 33A                |                    |        |
| 16094   |        | XA323     | 71  |      | XA327  | 79        |     |      | 16B         | 9    |       | TS13BQ | 01     | TWD1AA   | 01   | 1      | TD4              | F2    |                     | 36A                |                    |        |
| 10206   |        | XA323     | 72  |      | XA326  | 76        |     |      | 16B         | 9    |       | TC11BP | 02     | TWD1AA   | 01   | 2      | TD4              | F2    |                     | 34A                |                    |        |
| 14488   |        | XA323     | 73  |      | XA325  | 34        |     |      | 16B         | 9    |       | TMO2BQ | 01     | TWD1AA   | 01   | 3      | TD4              | F2    |                     | 36B                |                    |        |
| 14338   |        | XA323     | 74  |      | XA340  | 72        |     |      | 16B         | 9    |       | TMS3BQ | 07     | TWD1AA   | 01   | 4      | TD4              | F2    |                     | 35B                |                    |        |
| 16073   |        | XA323     | 75  |      | XA427  | 04        |     |      | 16B         | 9    |       | YS12BQ | 01     | TPEC1A   | 01   | 1      | TD4              | F1    |                     | 37B                |                    |        |
| 14640   |        | XA323     | 76  |      |        |           |     |      |             |      |       | TPEC1A | 02     | TPEC1A   | 00   | 1      | TD4              | F1    |                     | 37A                | EPL CONTROL.PE*.   |        |
| CONNECTOR XA323 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA323  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 213

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       | SPEC. MISC. | SIGNAL | SEQ NO. | EQUATION | TERM. | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP. POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------------|--------|---------|----------|-------|--------|------------------|-------|----------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN | DATE | PREFIX | CONNECTOR | PIN | DATE | MULTI GROUP | CODE | COLOR |             |        |         |          |       |        |                  |       |                      |                    |                    |         |
| 10163   | XA323  | 77        |     |      | XA325  | 79        |     |      | 16B         | 9    |       |             | TC08BQ | 04      | TPEC1A   | 01    | 2      | TD4              | F1    |                      | 38B                |                    |         |
| 13712   | XA323  | 76        |     |      |        |           |     |      |             |      |       |             | TKAACB | 17      | TPEC1A   | 01    | 3      | TD4              | F1    |                      | 38A                |                    |         |
| 14668   | XA323  | 79        |     |      |        |           |     |      |             |      |       |             | TPEM1A | 07      | TPEC1A   | 01    | 4      | TD4              | F1    |                      | 39B                |                    |         |
| 01189   | XA323  | 80        |     |      |        |           |     |      |             |      |       |             | DNW    | 01      |          |       |        | TD4              |       |                      |                    |                    |         |
| 09029   | XA324  | 01        |     |      |        |           |     |      |             |      |       |             | TBLZ20 | 03      | TBLZ20   | 00    | 1      | THI              | A4    |                      | 02B                | GROUP 2 BL FIELD   |         |
| 02471   | XA324  | 02        |     |      |        |           |     |      |             |      |       |             | GND    | 01      |          |       |        | THI              |       |                      | 01A                |                    |         |
| 09785   | XA324  | 03        |     |      |        |           |     |      |             |      |       |             | TCM140 | 02      | TCM140   | 00    | 1      | THI              | A3    |                      | 03A                | BY 1 WD2 OF BTST   |         |
| 09783   | XA324  | 04        |     |      |        |           |     |      |             |      |       |             | TCM14A | 02      | TCM140   | 01    | 1      | THI              | A3    |                      | 02A                |                    |         |
| 09026   | XA324  | 05        |     |      |        |           |     |      |             |      |       |             | TBLZ2A | 03      | TBLZ20   | 01    | 1      | THI              | A4    |                      | 05B                |                    |         |
| 09778   | XA324  | 06        |     |      | XA227  | 76        |     |      | 16B         | 9    |       |             | TCM12A | 01      | TCM120   | 01    | 1      | THI              | A2    |                      | 05A                |                    |         |
| 14148   | XA324  | 07        |     |      |        |           |     |      |             |      |       |             | TMLLA0 | 09      | TMLLA0   | 00    | 1      | THI              | A5    |                      | 04B                | TD24-31 TO TE00-   |         |
| 09761   | XA324  | 08        |     |      |        |           |     |      |             |      |       |             | TCM120 | 02      | TCM120   | 00    | 1      | THI              | A2    |                      | 04A                | BY 1 WD1 OF BTST   |         |
| 14138   | XA324  | 09        |     |      | XA323  | 11        |     |      | 16B         | 9    |       |             | TMLLAA | 01      | TMLLA0   | 01    | 1      | THI              | A5    |                      | 05B                |                    |         |
| 14406   | XA324  | 10        |     |      |        |           |     |      |             |      |       |             | TMULAA | 09      | TMULAA   | 00    | 1      | THI              | A6    |                      | 06B                | TD08-15 TO TE00-   |         |
| 09021   | XA324  | 11        |     |      |        |           |     |      |             |      |       |             | TBLZ1A | 02      | TBLZ10   | 01    | 1      | THI              | A1    |                      | 07A                |                    |         |
| 00509   | XA324  | 12        |     |      |        |           |     |      |             |      |       |             | +5V    | 01      |          |       |        | THI              |       |                      |                    |                    |         |
| 09023   | XA324  | 13        |     |      |        |           |     |      |             |      |       |             | TBLZ10 | 02      | TBLZ10   | 00    | 1      | THI              | A1    |                      | 08A                | GROUP 1 BL FIELD   |         |
| 14855   | XA324  | 14        |     |      |        |           |     |      |             |      |       |             | TPR200 | 05      | TPR200   | 00    | 1      | THI              | B4    |                      | 08B                | TC12*.13 *EPL CO   |         |
| 14397   | XA324  | 15        |     |      |        |           |     |      |             |      |       |             | TMULAA | 02      | TMULAA   | 01    | 1      | THI              | A6    |                      | 07B                |                    |         |
| 02472   | XA324  | 16        |     |      |        |           |     |      |             |      |       |             | GND    | 01      |          |       |        | THI              |       |                      | 20B                |                    |         |
| 14850   | XA324  | 17        |     |      |        |           |     |      |             |      |       |             | TPR20A | 02      | TPR200   | 01    | 1      | THI              | B4    |                      | 09B                |                    |         |
| 14848   | XA324  | 18        |     |      |        |           |     |      |             |      |       |             | TPR100 | 05      | TPR100   | 00    | 1      | THI              | B3    |                      | 09A                | TC12*.13* EPL CO   |         |
| 14862   | XA324  | 19        |     |      |        |           |     |      |             |      |       |             | TPR300 | 05      | TPR300   | 00    | 1      | THI              | B5    |                      | 10B                | TC12.13* EPL CON   |         |
| 14842   | XA324  | 20        |     |      | XA319  | 04        |     |      | 16B         | 9    |       |             | TPR10A | 01      | TPR100   | 01    | 1      | THI              | B3    |                      | 10A                |                    |         |
| 14857   | XA324  | 21        |     |      |        |           |     |      |             |      |       |             | TPR30A | 02      | TPR300   | 01    | 1      | THI              | B5    |                      | 11B                |                    |         |
| 09787   | XA324  | 22        |     |      |        |           |     |      |             |      |       |             | TCM22A | 02      | TCM220   | 01    | 1      | THI              | B1    |                      | 14A                |                    |         |
| 14408   | XA324  | 23        |     |      |        |           |     |      |             |      |       |             | TMUJAA | 02      | TMUJAA   | 01    | 1      | THI              | B2    |                      | 12A                |                    |         |
| 09789   | XA324  | 24        |     |      |        |           |     |      |             |      |       |             | TCM220 | 02      | TCM220   | 00    | 1      | THI              | B1    |                      | 13A                | BY 2 WD1 OF BTST   |         |
| 14409   | XA324  | 25        |     |      | XA231  | 50        |     |      | 16B         | 9    |       |             | TMUJAA | 01      | TMUJAA   | 00    | 1      | THI              | B2    |                      | 11A                | TD00-07-TE00-07-   |         |
| 14865   | XA324  | 26        |     |      |        |           |     |      |             |      |       |             | TPR400 | 05      | TPR400   | 00    | 1      | THI              | B6    |                      | 12B                | TC12.13 EPL CONT   |         |
| 14864   | XA324  | 27        |     |      |        |           |     |      |             |      |       |             | TPR40A | 02      | TPR400   | 01    | 1      | THI              | B6    |                      | 13B                |                    |         |
| 00510   | XA324  | 28        |     |      |        |           |     |      |             |      |       |             | +5V    | 01      |          |       |        | THI              |       |                      |                    |                    |         |
| 10269   | XA324  | 29        |     |      | XA327  | 52        |     |      | 16B         | 9    |       |             | TC13B0 | 05      | TC13CA   | 01    | 1      | THI              | C4    |                      | 15B                |                    |         |
| 10273   | XA324  | 30        |     |      | XA323  | 19        |     |      | 16B         | 9    |       |             | TC13CA | 02      | TC13CA   | 00    | 1      | THI              | C4    |                      | 14B                | TC REG BIT 13-A    |         |
| 09434   | XA324  | 31        |     |      |        |           |     |      |             |      |       |             | TCAM10 | 04      | TCAM10   | 00    | 1      | THI              | C5    |                      | 16B                | CA MODIFY GRP 1-   |         |
| 02473   | XA324  | 32        |     |      |        |           |     |      |             |      |       |             | GND    | 01      |          |       |        | THI              |       |                      | 21B                |                    |         |
| 09430   | XA324  | 33        |     |      |        |           |     |      |             |      |       |             | TCAM1A | 02      | TCAM10   | 01    | 1      | THI              | C5    |                      | 17B                |                    |         |
| 09036   | XA324  | 34        |     |      |        |           |     |      |             |      |       |             | TBLZ30 | 04      | TBLZ30   | 00    | 1      | THI              | C3    |                      | 15A                | GROUP 3 BL FIELD   |         |
| 10263   | XA324  | 35        |     |      | XA327  | 46        |     |      | 16B         | 9    |       |             | TC138P | 07      | TC13C0   | 01    | 1      | THI              | C2    |                      | 18A                |                    |         |
| 09032   | XA324  | 36        |     |      |        |           |     |      |             |      |       |             | TBLZ3A | 03      | TBLZ30   | 01    | 1      | THI              | C3    |                      | 16A                |                    |         |
| 10260   | XA324  | 37        |     |      | XA323  | 34        |     |      | 16B         | 9    |       |             | TC13C0 | 03      | TC13C0   | 00    | 1      | THI              | C2    |                      | 17A                | TC REG BIT 13-0    |         |
| 09791   | XA324  | 38        |     |      |        |           |     |      |             |      |       |             | TCM24A | 02      | TCM240   | 01    | 1      | THI              | C1    |                      | 20A                |                    |         |
| 09436   | XA324  | 39        |     |      |        |           |     |      |             |      |       |             | TCAM2A | 02      | TCAM20   | 01    | 1      | THI              | C6    |                      | 19B                |                    |         |
| 09793   | XA324  | 40        |     |      |        |           |     |      |             |      |       |             | TCM240 | 02      | TCM240   | 00    | 1      | THI              | C1    |                      | 19A                | BY 2 WD2 OF BTST   |         |
| 09454   | XA324  | 41        |     |      |        |           |     |      |             |      |       |             | TCAM5A | 02      | TCAM50   | 01    | 1      | THI              | D4    |                      | 23B                |                    |         |
| 09439   | XA324  | 42        |     |      | XA218  | 23        |     |      | 16B         | 9    |       |             | TCAM20 | 03      | TCAM20   | 00    | 1      | THI              | C6    |                      | 18B                | CA MODIFY GRP 2-   |         |
| 10169   | XA324  | 43        |     |      | XA326  | 47        |     |      | 16B         | 9    |       |             | TC08CA | 02      | TC08CA   | 00    | 1      | THI              | D5    |                      | 24B                | TC REG BIT 8- A    |         |
| 02474   | XA324  | 44        |     |      |        |           |     |      |             |      |       |             | GND    | 01      |          |       |        | THI              |       |                      | 27A                |                    |         |
| CONNECTOR (XA324) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |             |        |         |          |       |        |                  |       |                      |                    |                    |         |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA324  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 214

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |       |      |       | SIGNAL | SPQ NO | EQUATION | TERMS | CAT OP CHIP TYPE | GROUP | LOCAT W/P POWER PLANE | TEST POINTS PANEL OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------|------|-------|--------|--------|----------|-------|------------------|-------|-----------------------|----------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | WIRE | GROUP | CODE | COLOR |        |        |          |       |                  |       |                       |                      |                    |        |
| 10160   |        | XA324     | 45  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 09458   |        | XA324     | 46  |        | XA323     | 60  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 09442   |        | XA324     | 47  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 09452   |        | XA324     | 48  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 09446   |        | XA324     | 49  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 09448   |        | XA324     | 50  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 09037   |        | XA324     | 51  |        | XA326     | 49  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 09795   |        | XA324     | 52  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 09044   |        | XA324     | 53  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 09797   |        | XA324     | 54  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 10152   |        | XA324     | 55  |        | XA323     | 52  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 10180   |        | XA324     | 56  |        | XA322     | 34  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 08457   |        | XA324     | 57  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 02475   |        | XA324     | 58  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 08448   |        | XA324     | 59  |        | XA324     | 61  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 09048   |        | XA324     | 60  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 08449   |        | XA324     | 61  |        | XA324     | 75  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 09046   |        | XA324     | 62  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 08462   |        | XA324     | 63  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 09799   |        | XA324     | 64  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 14639   |        | XA324     | 65  |        | XA323     | 76  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 09801   |        | XA324     | 66  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 02476   |        | XA324     | 67  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 14645   |        | XA324     | 68  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 10205   |        | XA324     | 69  |        | XA323     | 72  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 10234   |        | XA324     | 70  |        | XA325     | 78  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 10229   |        | XA324     | 71  |        | XA319     | 54  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 13864   |        | XA324     | 72  |        | XA210     | 68  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 10220   |        | XA324     | 73  |        | XA319     | 61  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 13887   |        | XA324     | 74  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 08450   |        | XA324     | 75  |        | XA324     | 79  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 09803   |        | XA324     | 76  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 08467   |        | XA324     | 77  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 09805   |        | XA324     | 78  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 08451   |        | XA324     | 79  |        | XA327     | 80  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 08468   |        | XA324     | 80  |        | XA316     | 56  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 05610   |        | XA325     | 01  |        | XA325     | 08  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 02477   |        | XA325     | 02  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 01190   |        | XA325     | 03  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 05434   |        | XA325     | 04  |        | XA325     | 10  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 05593   |        | XA325     | 05  |        | XA321     | 15  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 05592   |        | XA325     | 06  |        | XA325     | 05  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 05553   |        | XA325     | 07  |        | XA325     | 13  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 05611   |        | XA325     | 08  |        | XA330     | 25  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 07897   |        | XA325     | 09  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 05435   |        | XA325     | 10  |        | XA329     | 20  |      |       | 16B  | 9     |        |        |          |       |                  |       |                       |                      |                    |        |
| 07898   |        | XA325     | 11  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| 00511   |        | XA325     | 12  |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |
| CONNECTOR (XA325) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |       |      |       |        |        |          |       |                  |       |                       |                      |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA325  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 215

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SPEC. MISC. | SIGNAL | SEQ NO. | EQUATION | TURNS | FACTOR | CKT OR CHIP TYPE | DIM. | LOAD OR POWER PLANE | TEST POINTS (LAND) OF | SIGNAL DESCRIPTION | ECO NO.    |                          |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|-------------|--------|---------|----------|-------|--------|------------------|------|---------------------|-----------------------|--------------------|------------|--------------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |             |        |         |          |       |        |                  |      |                     |                       |                    |            |                          |
| 05554   |        | XA325     | 13  |        | XA314     | 11  |             | 16B  | 9     |       |             | SPI024 | 08      |          |       |        |                  |      |                     |                       |                    |            |                          |
| 16190   |        | XA325     | 14  |        | XA319     | 60  |             | 16B  | 9     |       |             | TS16B0 | 05      | TE082A   | 01    | 1      | TD4              | B2   |                     |                       |                    | 06B<br>09A |                          |
| 01191   |        | XA325     | 15  |        |           |     |             |      |       |       |             | DNW    | 01      |          |       |        |                  |      |                     |                       |                    |            |                          |
| 02478   |        | XA325     | 16  |        |           |     |             |      |       |       |             | GND    | 01      |          |       |        |                  |      |                     |                       |                    |            | 20B                      |
| 01192   |        | XA325     | 17  |        |           |     |             |      |       |       |             | DNW    | 01      |          |       |        |                  |      |                     |                       |                    |            |                          |
| 09693   |        | XA325     | 18  |        | XA343     | 11  |             | 16B  | 9     |       |             | TC0170 | 05      | TE082A   | 01    | 2      | TD4              | B2   |                     |                       |                    |            | 10A                      |
| 11890   |        | XA325     | 19  |        | XA226     | 39  |             | 16B  | 9     |       |             | TD17BP | 03      | TE082A   | 01    | 3      | TD4              | B2   |                     |                       |                    |            | 09B                      |
| 09018   |        | XA325     | 20  |        | XA319     | 53  |             | 16B  | 9     |       |             | TBLZAO | 11      | TE082A   | 01    | 4      | TD4              | B2   |                     |                       |                    |            | 11A                      |
| 12609   |        | XA325     | 21  |        | XA113     | 17  |             | 16B  | 9     |       |             | TE082A | 01      | TE082A   | 00    | 1      | TD4              | B2   |                     |                       |                    |            | S16 NO STOP CODE         |
| 16494   |        | XA325     | 22  |        |           |     |             |      |       |       |             | TS3M3A | 04      | TS032A   | 01    | 1      | TD4              | B1   |                     |                       |                    |            | 12A                      |
| 15864   |        | XA325     | 23  |        | XA341     | 70  |             | 16B  | 9     |       |             | TS032A | 01      | TS032A   | 00    | 1      | TD4              | B1   |                     |                       |                    |            | 11B<br>SEL S03,S03 NO XF |
| 15848   |        | XA325     | 24  |        | XA339     | 49  |             | 16B  | 9     |       |             | TS03BQ | 02      | TS032A   | 01    | 2      | TD4              | B1   |                     |                       |                    |            | 13A                      |
| 14389   |        | XA325     | 25  |        | XA305     | 46  |             | 16B  | 9     |       |             | TMT0BP | 05      | TS032A   | 01    | 3      | TD4              | B1   |                     |                       |                    |            | 12B                      |
| 16123   |        | XA325     | 26  |        |           |     |             |      |       |       |             | TS131A | 03      | TS032A   | 01    | 4      | TD4              | B1   |                     |                       |                    |            | 14A                      |
| 01193   |        | X-325     | 27  |        |           |     |             |      |       |       |             | DNW    | 01      |          |       |        |                  |      |                     |                       |                    |            |                          |
| 00512   |        | XA325     | 28  |        |           |     |             |      |       |       |             | +5V    | 01      |          |       |        |                  |      |                     |                       |                    |            |                          |
| 01194   |        | XA325     | 29  |        |           |     |             |      |       |       |             | DNW    | 01      |          |       |        |                  |      |                     |                       |                    |            |                          |
| 08393   |        | XA325     | 30  |        |           |     |             |      |       |       |             | TADABQ | 04      | TDRS1A   | 01    | 1      | TD4              | C2   |                     |                       |                    |            | 15A                      |
| 15629   |        | XA325     | 31  |        | XA213     | 66  |             | 16B  | 9     |       |             | TSN2AA | 01      | TDRS1A   | 01    | 2      | TD4              | C2   |                     |                       |                    |            | 15B                      |
| 02475   |        | XA325     | 32  |        |           |     |             |      |       |       |             | GND    | 01      |          |       |        |                  |      |                     |                       |                    |            | 21B                      |
| 11141   |        | XA325     | 33  |        |           |     |             |      |       |       |             | TDRS1A | 02      | TDRS1A   | 00    | 1      | TD4              | C2   |                     |                       |                    |            | 16B<br>M2.TADA.SYNC2*.NO |
| 14489   |        | XA325     | 34  |        | XA245     | 21  |             | 16B  | 9     |       |             | TM02BQ | 02      | TDRS1A   | 01    | 3      | TD4              | C2   |                     |                       |                    |            | 16A                      |
| 15772   |        | XA325     | 35  |        |           |     |             |      |       |       |             | TS006A | 03      | TS006A   | 00    | 1      | TD4              | C1   |                     |                       |                    |            | 17B<br>INPUT NORMAL GC   |
| 11319   |        | XA325     | 36  |        | XA346     | 66  |             | 16B  | 9     |       |             | TD005A | 01      | TDRS1A   | 01    | 4      | TD4              | C2   |                     |                       |                    |            | 17A                      |
| 09692   |        | XA325     | 37  |        | XA325     | 18  |             | 16B  | 9     |       |             | TC0170 | 04      | TS006A   | 01    | 1      | TD4              | C1   |                     |                       |                    |            | 18B                      |
| 09003   |        | XA325     | 38  |        | XA333     | 72  |             | 16B  | 9     |       |             | TBLZAA | 01      | TS006A   | 01    | 2      | TD4              | C1   |                     |                       |                    |            | 18A                      |
| 01195   |        | XA325     | 39  |        |           |     |             |      |       |       |             | DNW    | 01      |          |       |        |                  |      |                     |                       |                    |            |                          |
| 11889   |        | XA325     | 40  |        | XA325     | 19  |             | 16B  | 9     |       |             | TD17BP | 02      | TS006A   | 01    | 3      | TD4              | C1   |                     |                       |                    |            | 19A                      |
| 01196   |        | XA325     | 41  |        |           |     |             |      |       |       |             | DNW    | 01      |          |       |        |                  |      |                     |                       |                    |            |                          |
| 16189   |        | XA325     | 42  |        | XA325     | 14  |             | 16B  | 9     |       |             | TS16BQ | 04      | TS006A   | 01    | 4      | TD4              | C1   |                     |                       |                    |            | 20A                      |
| 16048   |        | XA325     | 43  |        | XA325     | 61  |             | 16B  | 9     |       |             | TS11BQ | 06      | TDPO2A   | 01    | 1      | TD4              | D2   |                     |                       |                    |            | 23B                      |
| 02480   |        | XA325     | 44  |        |           |     |             |      |       |       |             | GND    | 01      |          |       |        |                  |      |                     |                       |                    |            | 27A                      |
| 11086   |        | XA325     | 45  |        | XA208     | 03  |             | 16B  | 9     |       |             | TDPO2A | 01      | TDPO2A   | 00    | 1      | TD4              | D2   |                     |                       |                    |            | 24B<br>PAR REG SEL TC02  |
| 10077   |        | XA325     | 46  |        | XA332     | 26  |             | 16B  | 9     |       |             | TC02BQ | 01      | TDPO2A   | 01    | 2      | TD4              | D2   |                     |                       |                    |            | 21A                      |
| 16033   |        | XA325     | 47  |        | XA345     | 50  |             | 16B  | 9     |       |             | TS102A | 01      | TS102A   | 00    | 1      | TD4              | D1   |                     |                       |                    |            | 25B<br>S18. NO PE        |
| 14475   |        | XA325     | 48  |        | XA328     | 31  |             | 16B  | 9     |       |             | TM01C0 | 08      | TDPO2A   | 01    | 3      | TD4              | D2   |                     |                       |                    |            | 22A                      |
| 16240   |        | XA325     | 49  |        | XA348     | 49  |             | 16B  | 9     |       |             | TS18BQ | 02      | TS102A   | 01    | 1      | TD4              | D1   |                     |                       |                    |            | 26B                      |
| 10155   |        | XA325     | 50  |        | XA327     | 53  |             | 16B  | 9     |       |             | TC08BP | 05      | TDPO2A   | 01    | 4      | TD4              | D2   |                     |                       |                    |            | 23A                      |
| 01197   |        | XA325     | 51  |        |           |     |             |      |       |       |             | DNW    | 01      |          |       |        |                  |      |                     |                       |                    |            |                          |
| 14337   |        | XA325     | 52  |        | XA323     | 74  |             | 16B  | 9     |       |             | TMS3BQ | 06      | TS102A   | 01    | 2      | TD4              | D1   |                     |                       |                    |            | 24A                      |
| 01198   |        | XA325     | 53  |        |           |     |             |      |       |       |             | DNW    | 01      |          |       |        |                  |      |                     |                       |                    |            |                          |
| 14532   |        | XA325     | 54  |        | XA413     | 68  |             | 16B  | 9     |       |             | TM03D0 | 06      | TS102A   | 01    | 3      | TD4              | D1   |                     |                       |                    |            | 25A                      |
| 14474   |        | XA325     | 55  |        | XA325     | 48  |             | 16B  | 9     |       |             | TM01C0 | 07      | TDPI0A   | 01    | 1      | TD4              | E2   |                     |                       |                    |            | 29B                      |
| 05548   |        | XA325     | 56  |        | XA328     | 42  |             | 16B  | 9     |       |             | SPI024 | 02      | TS102A   | 01    | 4      | TD4              | D1   |                     |                       |                    |            | 26A                      |
| 11091   |        | XA325     | 57  |        |           |     |             |      |       |       |             | TDPI0A | 02      | TDPI0A   | 00    | 1      | TD4              | E2   |                     |                       |                    |            | 30B<br>PAR REG SEL TC10  |
| 02481   |        | XA325     | 58  |        |           |     |             |      |       |       |             | GND    | 01      |          |       |        |                  |      |                     |                       |                    |            | 40A                      |
| 11089   |        | XA325     | 59  |        |           |     |             |      |       |       |             | TDPO3A | 02      | TDPO3A   | 00    | 1      | TD4              | E1   |                     |                       |                    |            | 31B<br>PAR REG SEL TC03  |
| 16050   |        | XA325     | 60  |        | XA325     | 75  |             | 16B  | 9     |       |             | TS11BQ | 08      | TDPI0A   | 01    | 2      | TD4              | E2   |                     |                       |                    |            | 28A                      |
| 16049   |        | XA325     | 61  |        | XA325     | 60  |             | 16B  | 9     |       |             | TS11BQ | 07      | TDPO3A   | 01    | 1      | TD4              | E1   |                     |                       |                    |            | 32B                      |
| 10202   |        | XA325     | 62  |        | XA326     | 55  |             | 16B  | 9     |       |             | TC10BQ | 05      | TDPI0A   | 01    | 3      | TD4              | E2   |                     |                       |                    |            | 29A                      |
| CONNECTOR XA325 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |             |        |         |          |       |        |                  |      |                     |                       |                    |            |                          |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA325  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 216

| RECORD NUMBER | FROM   |                                 |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | COO NO |
|---------------|--------|---------------------------------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | U S B | PREFIX | CONNECTOR | PIN | U S B | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 01199         |        | XA325                           | 63  |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 10165         |        | XA325                           | 64  |       | XA329  | 61        |     |       |             | 16B  | 9     |       | TC08BQ  | 06     | TDP10A   | 01   | 4      | TD4              | E2    |                     | 30A                |                    |        |
| 01200         |        | XA325                           | 65  |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 10093         |        | XA325                           | 66  |       |        |           |     |       |             |      |       |       | TC03BQ  | 06     | TDP03A   | 01   | 2      | TD4              | E1    |                     | 31A                |                    |        |
| 02482         |        | XA325                           | 67  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 40B                |                    |        |
| 10151         |        | XA325                           | 68  |       | XA324  | 55        |     |       |             | 16B  | 9     |       | TC08BP  | 01     | TDP03A   | 01   | 3      | TD4              | E1    |                     | 32A                |                    |        |
| 14658         |        | XA325                           | 69  |       | XA208  | 50        |     |       |             | 16B  | 9     |       | TPEMAA  | 01     | TPEMAA   | 00   | 1      | TD4              | F2    |                     | 35A                | BITS 0-31 EVEN P   |        |
| 14469         |        | XA325                           | 70  |       | XA323  | 66        |     |       |             | 16B  | 9     |       | TM01C0  | 02     | TDP03A   | 01   | 4      | TD4              | E1    |                     | 33A                |                    |        |
| 14157         |        | XA325                           | 71  |       | XA315  | 57        |     |       |             | 16B  | 9     |       | TMPE1A  | 01     | TPEMAA   | 01   | 1      | TD4              | F2    |                     | 36A                |                    |        |
| 12424         |        | XA325                           | 72  |       | XA217  | 59        |     |       |             | 16B  | 9     |       | T032BP  | 01     | TPEMAA   | 01   | 2      | TD4              | F2    |                     | 34A                |                    |        |
| 17254         |        | XA325                           | 73  |       | XA206  | 23        |     |       |             | 16B  | 9     |       | T3100A  | 01     | TPEMAA   | 01   | 3      | TD4              | F2    |                     | 36B                |                    |        |
| 17080         |        | XA325                           | 74  |       | XA112  | 78        |     |       |             | 16B  | 9     |       | T0031A  | 01     | TPEMAA   | 01   | 4      | TD4              | F2    |                     | 35B                |                    |        |
| 16051         |        | XA325                           | 75  |       |        |           |     |       |             |      |       |       | TS11B0  | 09     | TDP11A   | 01   | 1      | TD4              | F1    |                     | 37B                |                    |        |
| 11093         |        | XA325                           | 76  |       |        |           |     |       |             |      |       |       | TDP11A  | 02     | TDP11A   | 00   | 1      | TD4              | F1    |                     | 37A                | PAR REG SEL TC11   |        |
| 14468         |        | XA325                           | 77  |       | XA325  | 70        |     |       |             | 16B  | 9     |       | TM01C0  | 01     | TDP11A   | 01   | 2      | TD4              | F1    |                     | 38B                |                    |        |
| 10235         |        | XA325                           | 78  |       | XA326  | 71        |     |       |             | 16B  | 9     |       | TC11C0  | 03     | TDP11A   | 01   | 3      | TD4              | F1    |                     | 38A                |                    |        |
| 10164         |        | XA325                           | 79  |       | XA325  | 64        |     |       |             | 16B  | 9     |       | TC08BQ  | 05     | TDP11A   | 01   | 4      | TD4              | F1    |                     | 39B                |                    |        |
| 01201         |        | XA325                           | 80  |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 11311         |        | XA326                           | 01  |       | XA228  | 13        |     |       |             | 16B  | 9     |       | T0001A  | 01     | T0001A   | 00   | 1      | TQ2              | A2    |                     | 02B                | XFER TC00 TO TD0   |        |
| 02483         |        | XA326                           | 02  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 01A                |                    |        |
| 09918         |        | XA326                           | 03  |       |        |           |     |       |             |      |       |       | TCST40  | 02     | TCST1A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 08989         |        | XA326                           | 04  |       | XA140  | 52        |     |       |             | 16B  | 9     |       | TBLX10  | 02     | T0001A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 10062         |        | XA326                           | 05  |       | XA322  | 10        |     |       |             | 16B  | 9     |       | TC00BQ  | 03     | T0001A   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 16702         |        | XA326                           | 06  |       | XA328  | 07        |     |       |             | 16B  | 9     |       | TU00A0  | 01     | TU00A0   | 00   | 1      | TQ2              | A1    |                     | 05A                | BL UPDATE TC00.    |        |
| 13685         |        | XA326                           | 07  |       | XA320  | 10        |     |       |             | 16B  | 9     |       | TKAABB  | 06     | TCST1A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 16705         |        | XA326                           | 08  |       |        |           |     |       |             |      |       |       | TU003A  | 02     | TU00A0   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 09914         |        | XA326                           | 09  |       | XA128  | 10        |     |       |             | 16B  | 9     |       | TCST1A  | 01     | TCST1A   | 00   | 1      | TQ2              | A3    |                     | 04B                | SET GATE TC00 (F   |        |
| 16706         |        | XA326                           | 10  |       | XA328  | 01        |     |       |             | 16B  | 9     |       | TU004A  | 01     | TU00A0   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 15981         |        | XA326                           | 11  |       |        |           |     |       |             |      |       |       | TS08BQ  | 06     | TCST5A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00513         |        | XA326                           | 12  |       |        |           |     |       |             |      |       |       | +5V     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 09688         |        | XA326                           | 13  |       |        |           |     |       |             |      |       |       | TC0160  | 10     | TCST5A   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 11354         |        | XA326                           | 14  |       | XA227  | 13        |     |       |             | 16B  | 9     |       | T0011A  | 01     | T0011A   | 00   | 1      | TQ2              | B2    |                     | 09A                | XFER TC01 TO TD0   |        |
| 09919         |        | XA326                           | 15  |       | XA328  | 20        |     |       |             | 16B  | 9     |       | TCST5A  | 01     | TCST5A   | 00   | 1      | TQ2              | A4    |                     | 07B                | SET GATE TC00 S8   |        |
| 02484         |        | XA326                           | 16  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 01B                |                    |        |
| 08952         |        | XA326                           | 17  |       | XA328  | 03        |     |       |             | 16B  | 9     |       | TBLM10  | 01     | T0012A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 10071         |        | XA326                           | 18  |       | XA322  | 13        |     |       |             | 16B  | 9     |       | TC01BQ  | 03     | T0011A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 10068         |        | XA326                           | 19  |       |        |           |     |       |             |      |       |       | TC01BP  | 05     | T0012A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 08988         |        | XA326                           | 20  |       | XA326  | 04        |     |       |             | 16B  | 9     |       | TBLX10  | 01     | T0011A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 11357         |        | XA326                           | 21  |       |        |           |     |       |             |      |       |       | T0012A  | 02     | T0012A   | 00   | 1      | TQ2              | B3    |                     | 10B                | UPDATE TC01 TO T   |        |
| 08395         |        | XA326                           | 22  |       |        |           |     |       |             |      |       |       | TADACA  | 02     | TADACA   | 00   | 1      | TQ2              | B1    |                     | 12A                | ADD ACK.CLK        |        |
| 08992         |        | XA326                           | 23  |       | XA224  | 43        |     |       |             | 16B  | 9     |       | TBLX20  | 02     | T0031A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 08399         |        | XA326                           | 24  |       |        |           |     |       |             |      |       |       | TADA2A  | 02     | TADACA   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 10092         |        | XA326                           | 25  |       | XA325  | 66        |     |       |             | 16B  | 9     |       | TC03BQ  | 05     | T0031A   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 20218         |        | XA326                           | 26  |       | XA315  | 60        |     |       |             | 16B  | 9     |       | YSN2CTX | 05     | TADACA   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 11440         |        | XA326                           | 27  |       | XA227  | 18        |     |       |             | 16B  | 9     |       | T0031A  | 01     | T0031A   | 00   | 1      | TQ2              | B4    |                     | 13B                | XFER TC03 TO TD0   |        |
| 00514         |        | XA326                           | 28  |       |        |           |     |       |             |      |       |       | +5V     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 15100         |        | XA326                           | 29  |       |        |           |     |       |             |      |       |       | TQNS0A  | 02     | TQRS00   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 11479         |        | XA326                           | 30  |       |        |           |     |       |             |      |       |       | T0042A  | 02     | T0042A   | 00   | 1      | TQ2              | C2    |                     | 15A                | UPDATE TC04 TO T   |        |
| CONNECTOR     | XA326  | CONTINUED ON THE NEXT PAGE **** |     |       |        |           |     |       |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA326  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 217

| RECORD NUMBER | FROM   |           |     |         | TO     |           |     |         | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD GP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|---------|--------|-----------|-----|---------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | WIRE NO | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 15092         |        | XA326     | 31  |         |        |           |     |         |             |      |       |       | TQES0A | 02     | TQRS00   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 02485         |        | XA326     | 32  |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 15116         |        | XA326     | 33  |         | XA219  | 68        |     |         | 16B         | 9    |       |       | TQRS00 | 01     | TQRS00   | 00   | 1      | TQ2              | C3    |                     | 16B                | Q SEL NPL + EPL    |        |
| 08959         |        | XA326     | 34  |         | XA139  | 19        |     |         | 16B         | 9    |       |       | TBLM20 | 03     | TD042A   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 15101         |        | XA326     | 35  |         | XA332  | 14        |     |         | 16B         | 9    |       |       | TQNS1A | 01     | TQRS10   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 10098         |        | XA326     | 36  |         | XA327  | 08        |     |         | 16B         | 9    |       |       | TC04BP | 05     | TD042A   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 15093         |        | XA326     | 37  |         | XA328  | 57        |     |         | 16B         | 9    |       |       | TQES1A | 01     | TQRS10   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 11443         |        | XA326     | 38  |         |        |           |     |         |             |      |       |       | TD032A | 02     | TD032A   | 00   | 1      | TQ2              | C1    |                     | 18A                | UPDATE TC03 TO T   |        |
| 15119         |        | XA326     | 39  |         |        |           |     |         |             |      |       |       | TQRS10 | 02     | TQRS10   | 00   | 1      | TQ2              | C4    |                     | 19B                | Q SEL NPL + EPL    |        |
| 16712         |        | XA326     | 40  |         | XA328  | 30        |     |         | 16B         | 9    |       |       | TU03A0 | 01     | TD032A   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 10148         |        | XA326     | 41  |         | XA323  | 48        |     |         | 16B         | 9    |       |       | TC07BQ | 05     | TU063A   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 08958         |        | XA326     | 42  |         | XA326  | 34        |     |         | 16B         | 9    |       |       | TBLM20 | 02     | TD032A   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 10134         |        | XA326     | 43  |         | XA323  | 54        |     |         | 16B         | 9    |       |       | TC06BQ | 06     | TU063A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02486         |        | XA326     | 44  |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 16724         |        | XA326     | 45  |         | XA219  | 77        |     |         | 16B         | 9    |       |       | TU063A | 01     | TU063A   | 00   | 1      | TQ2              | D3    |                     | 24B                | BL UPDATE TC06.    |        |
| 16727         |        | XA326     | 46  |         |        |           |     |         |             |      |       |       | TU064A | 02     | TU064A   | 00   | 1      | TQ2              | D2    |                     | 21A                | BL UPDATE TC06*    |        |
| 10170         |        | XA326     | 47  |         | XA332  | 42        |     |         | 16B         | 9    |       |       | TC08CA | 03     | TU0820   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 10140         |        | XA326     | 48  |         | XA327  | 35        |     |         | 16B         | 9    |       |       | TC07BP | 05     | TU064A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 09038         |        | XA326     | 49  |         | XA327  | 64        |     |         | 16B         | 9    |       |       | TBL24A | 02     | TU0820   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 10125         |        | XA326     | 50  |         | XA329  | 47        |     |         | 16B         | 9    |       |       | TC06BP | 04     | TU064A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 16730         |        | XA326     | 51  |         | XA206  | 45        |     |         | 16B         | 9    |       |       | TU0820 | 01     | TU0820   | 00   | 1      | TQ2              | D4    |                     | 27B                | BL UPDATE TC10*    |        |
| 09617         |        | XA326     | 52  |         | XA329  | 72        |     |         | 16B         | 9    |       |       | TCCKCA | 05     | TCCKCA   | 00   | 1      | TQ2              | D1    |                     | 24A                | CLK INPUT TC00-1   |        |
| 10190         |        | XA326     | 53  |         | XA322  | 30        |     |         | 16B         | 9    |       |       | TC09BP | 03     | TU093A   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 09649         |        | XA326     | 54  |         | XA328  | 56        |     |         | 16B         | 9    |       |       | TC01B0 | 04     | TCCKCA   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 10203         |        | XA326     | 55  |         | XA322  | 20        |     |         | 16B         | 9    |       |       | TC10BQ | 06     | TU093A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 13710         |        | XA326     | 56  |         | XA327  | 76        |     |         | 16B         | 9    |       |       | TKAACB | 15     | TCCKCA   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 16734         |        | XA326     | 57  |         | XA224  | 65        |     |         | 16B         | 9    |       |       | TU093A | 01     | TU093A   | 00   | 1      | TQ2              | E3    |                     | 30B                | BL UPDATE TC09.    |        |
| 02487         |        | XA326     | 58  |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 10183         |        | XA326     | 59  |         | XA327  | 57        |     |         | 16B         | 9    |       |       | TC09BP | 02     | TU094A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 15123         |        | XA326     | 60  |         |        |           |     |         |             |      |       |       | TQRS30 | 02     | TQRS30   | 00   | 1      | TQ2              | E2    |                     | 28A                | Q SEL NPL + EPL    |        |
| 10196         |        | XA326     | 61  |         | XA322  | 51        |     |         | 16B         | 9    |       |       | TC10BP | 05     | TU094A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 15097         |        | XA326     | 62  |         | XA328  | 69        |     |         | 16B         | 9    |       |       | TQES3A | 01     | TQRS30   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 16737         |        | XA326     | 63  |         |        |           |     |         |             |      |       |       | TU094A | 02     | TU094A   | 00   | 1      | TQ2              | E4    |                     | 33B                | BL UPDATE TC09*    |        |
| 15105         |        | XA326     | 64  |         | XA332  | 30        |     |         | 16B         | 9    |       |       | TQNS3A | 01     | TQRS30   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 10523         |        | XA326     | 65  |         | XA319  | 52        |     |         | 16B         | 9    |       |       | TC30BP | 02     | TU301A   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 15120         |        | XA326     | 66  |         | XA219  | 55        |     |         | 16B         | 9    |       |       | TQRS20 | 01     | TQRS20   | 00   | 1      | TQ2              | E1    |                     | 31A                | Q SEL NPL + EPL    |        |
| 02488         |        | XA326     | 67  |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 15096         |        | XA326     | 68  |         |        |           |     |         |             |      |       |       | TQES2A | 02     | TQRS20   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 16813         |        | XA326     | 69  |         |        |           |     |         |             |      |       |       | TU301A | 02     | TU301A   | 00   | 1      | TQ2              | F3    |                     | 35A                | UPDATE CA30 IF 3   |        |
| 15104         |        | XA326     | 70  |         |        |           |     |         |             |      |       |       | TQNS2A | 02     | TQRS20   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 10236         |        | XA326     | 71  |         | XA327  | 17        |     |         | 16B         | 9    |       |       | TC11C0 | 04     | TU293A   | 00   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 16806         |        | XA326     | 72  |         | XA308  | 30        |     |         | 16B         | 9    |       |       | TU293A | 01     | TU293A   | 00   | 1      | TQ2              | F2    |                     | 34A                | UPDATE CA29 IF 2   |        |
| 10519         |        | XA326     | 73  |         | XA327  | 49        |     |         | 16B         | 9    |       |       | TC29BQ | 06     | TU293A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 10208         |        | XA326     | 74  |         | XA327  | 65        |     |         | 16B         | 9    |       |       | TC11BP | 04     | TU301A   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 11680         |        | XA326     | 75  |         |        |           |     |         |             |      |       |       | TD102A | 02     | TD102A   | 00   | 1      | TQ2              | F1    |                     | 37B                | UPDATE TC10 TO T   |        |
| 10207         |        | XA326     | 76  |         | XA326  | 74        |     |         | 16B         | 9    |       |       | TC11BP | 03     | TWTMOA   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 10192         |        | XA326     | 77  |         | XA329  | 76        |     |         | 16B         | 9    |       |       | TC10BP | 01     | TD102A   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 15962         |        | XA326     | 78  |         | XA342  | 68        |     |         | 16B         | 9    |       |       | TS0720 | 05     | TWTMOA   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 08904         |        | XA326     | 79  |         | XA206  | 49        |     |         | 16B         | 9    |       |       | TBLD0A | 06     | TD102A   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 16910         |        | XA326     | 80  |         | XA138  | 79        |     |         | 16B         | 9    |       |       | TWTMOA | 01     | TWTMOA   | 00   | 1      | TQ2              | F4    |                     | 39A                | WORD TRANSFER MO   |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA326  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 218

| RECORD NUMBER | FROM   |                                 |     | TO     |           |     | WIRE      |       |      | SIGNAL | SFG NO | EQUATION | TERMS  | FACTORS | CKT COM. TYPE | LUMP | LOAD OR POWER PLANE | TEST POINTS | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|---------------------------------|-----|--------|-----------|-----|-----------|-------|------|--------|--------|----------|--------|---------|---------------|------|---------------------|-------------|--------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | PREFIX | CONNECTOR | PIN | DIAG. GRP | GROUP | CODE |        |        |          |        |         |               |      |                     |             |                    |        |
| 10100         | XA327  | 01                              |     | XA322  | 06        |     |           | 16B   | 9    |        | TC04BP | 07       | TBLZ2A | 01      | 1             | TT3  | A2                  | 02B         |                    |        |
| 02489         | XA327  | 02                              |     |        |           |     |           |       |      |        | 3N0    | 01       |        |         | 1             | TT3  |                     | 01B         |                    |        |
| 10075         | XA327  | 03                              |     | XA322  | 07        |     |           | 16B   | 9    |        | TC02BP | 03       | TBLZ2A | 01      | 2             | TT3  | A2                  | 02A         |                    |        |
| 16709         | XA327  | 04                              |     |        |           |     |           |       |      |        | TU021A | 02       | TU021A | 00      | 1             | TT3  | A1                  | 04A         | BL UPDATE TC04*    |        |
| 10086         | XA327  | 05                              |     | XA227  | 75        |     |           | 16B   | 9    |        | TC03BP | 04       | TBLZ2A | 01      | 3             | TT3  | A2                  | 03B         |                    |        |
| 10081         | XA327  | 06                              |     | XA227  | 79        |     |           | 16B   | 9    |        | TC02BQ | 05       | TU021A | 01      | 1             | TT3  | A1                  | 05A         |                    |        |
| 09025         | XA327  | 07                              |     | XA324  | 05        |     |           | 16B   | 9    |        | TBLZ2A | 02       | TBLZ2A | 00      | 1             | TT3  | A2                  | 03A         | GROUP 2 BL FIELD   |        |
| 10099         | XA327  | 08                              |     | XA327  | 01        |     |           | 16B   | 9    |        | TC04BP | 06       | TU021A | 01      | 2             | TT3  | A1                  | 06A         |                    |        |
| 11797         | XA327  | 09                              |     | XA419  | 74        |     |           | 16B   | 9    |        | TD14BQ | 07       | TC142A | 01      | 1             | TT3  | A3                  | 04B         |                    |        |
| 10085         | XA327  | 10                              |     | XA327  | 05        |     |           | 16B   | 9    |        | TC03BP | 03       | TU021A | 01      | 3             | TT3  | A1                  | 07A         |                    |        |
| 09647         | XA327  | 11                              |     | XA328  | 26        |     |           | 16B   | 9    |        | TC01B0 | 02       | TC142A | 01      | 2             | TT3  | A3                  | 05B         |                    |        |
| 00515         | XA327  | 12                              |     |        |           |     |           |       |      |        | +5V    | 01       |        |         |               | TT3  |                     |             |                    |        |
| 16469         | XA327  | 13                              |     | XA315  | 29        |     |           | 16B   | 9    |        | TS28BP | 04       | TC142A | 01      | 3             | TT3  | A3                  | 06B         |                    |        |
| 10536         | XA327  | 14                              |     |        |           |     |           |       |      |        | TC30BQ | 09       | TU303A | 01      | 1             | TT3  | B2                  | 09A         |                    |        |
| 10307         | XA327  | 15                              |     |        |           |     |           |       |      |        | TC142A | 02       | TC142A | 00      | 1             | TT3  | A3                  | 07B         | TD14 TO TC14 XFER  |        |
| 02490         | XA327  | 16                              |     |        |           |     |           |       |      |        | GND    | 01       |        |         |               | TT3  |                     | 21B         |                    |        |
| 10237         | XA327  | 17                              |     | XA323  | 01        |     |           | 16B   | 9    |        | TC11C0 | 05       | TU303A | 01      | 2             | TT3  | B2                  | 08B         |                    |        |
| 10545         | XA327  | 18                              |     |        |           |     |           |       |      |        | TC31BP | 09       | TU303A | 01      | 3             | TT3  | B2                  | 10A         |                    |        |
| 16816         | XA327  | 19                              |     | XA315  | 56        |     |           | 16B   | 9    |        | TU052A | 01       | TU303A | 00      | 1             | TT3  | B2                  | 09B         | UPDATE CA30 IF 3   |        |
| 11515         | XA327  | 20                              |     |        |           |     |           |       |      |        | TU052A | 02       | TU052A | 00      | 1             | TT3  | B1                  | 11A         | UPDATE TC05 TO T   |        |
| 11937         | XA327  | 21                              |     |        |           |     |           |       |      |        | TD18BQ | 06       | TS161A | 01      | 1             | TT3  | B3                  | 10B         |                    |        |
| 08964         | XA327  | 22                              |     | XA224  | 61        |     |           | 16B   | 9    |        | TBLM30 | 02       | TU052A | 01      | 1             | TT3  | B1                  | 12A         |                    |        |
| 16200         | XA327  | 23                              |     |        |           |     |           |       |      |        | TS16C0 | 06       | TS161A | 01      | 2             | TT3  | B3                  | 11B         |                    |        |
| 16719         | XA327  | 24                              |     |        |           |     |           |       |      |        | TU051A | 02       | TU052A | 01      | 2             | TT3  | B1                  | 13A         |                    |        |
| 11899         | XA327  | 25                              |     | XA315  | 37        |     |           | 16B   | 9    |        | TD17BQ | 06       | TS161A | 01      | 3             | TT3  | B3                  | 12B         |                    |        |
| 16721         | XA327  | 26                              |     |        |           |     |           |       |      |        | TU0520 | 02       | TU052A | 01      | 3             | TT3  | B1                  | 14A         |                    |        |
| 16204         | XA327  | 27                              |     | XA250  | 10        |     |           | 16B   | 9    |        | TS161A | 01       | TS161A | 00      | 1             | TT3  | B3                  | 13B         | S16 AND P BIT AND  |        |
| 00516         | XA327  | 28                              |     |        |           |     |           |       |      |        | +5V    | 01       |        |         |               | TT3  |                     |             |                    |        |
| 14606         | XA327  | 29                              |     |        |           |     |           |       |      |        | TS052A | 07       | TS052A | 01      | 1             | TT3  | C2                  | 14B         |                    |        |
| 08423         | XA327  | 30                              |     | XA217  | 53        |     |           | 16B   | 9    |        | TAVERA | 02       | TS052A | 01      | 2             | TT3  | C2                  | 15A         |                    |        |
| 15909         | XA327  | 31                              |     | XA341  | 55        |     |           | 16B   | 9    |        | TS052A | 01       | TS052A | 00      | 1             | TT3  | C2                  | 15B         | S05 NO XFER CON    |        |
| 02491         | XA327  | 32                              |     |        |           |     |           |       |      |        | GND    | 01       |        |         |               | TT3  |                     | 27A         |                    |        |
| 10113         | XA327  | 33                              |     | XA322  | 08        |     |           | 16B   | 9    |        | TC05BP | 05       | TBLZ3A | 01      | 1             | TT3  | C3                  | 16B         |                    |        |
| 15898         | XA327  | 34                              |     |        |           |     |           |       |      |        | TS05BQ | 05       | TS052A | 01      | 3             | TT3  | C2                  | 16A         |                    |        |
| 10141         | XA327  | 35                              |     | XA322  | 05        |     |           | 16B   | 9    |        | TC07BP | 06       | TBLZ3A | 01      | 2             | TT3  | C3                  | 17B         |                    |        |
| 15319         | XA327  | 36                              |     |        |           |     |           |       |      |        | TRQ0AA | 02       | TRQ0AA | 00      | 1             | TT3  | C1                  | 17A         | REQ 01 STATE 0     |        |
| 10124         | XA327  | 37                              |     | XA326  | 50        |     |           | 16B   | 9    |        | TC06BP | 03       | TBLZ3A | 01      | 3             | TT3  | C3                  | 18B         |                    |        |
| 15726         | XA327  | 38                              |     | XA342  | 30        |     |           | 16B   | 9    |        | TS00A0 | 03       | TRQ0AA | 01      | 1             | TT3  | C1                  | 18A         |                    |        |
| 09031         | XA327  | 39                              |     | XA324  | 36        |     |           | 16B   | 9    |        | TBLZ3A | 02       | TBLZ3A | 00      | 1             | TT3  | C3                  | 19B         | GROUP 3 BL FIELD   |        |
| 15320         | XA327  | 40                              |     | XA432  | 59        |     |           | 16B   | 9    |        | TRQ0A0 | 01       | TRQ0AA | 01      | 2             | TT3  | C1                  | 19A         |                    |        |
| 10216         | XA327  | 41                              |     | XA328  | 53        |     |           | 16B   | 9    |        | TC11BQ | 04       | TD132A | 01      | 1             | TT3  | D2                  | 22B         |                    |        |
| 17406         | XA327  | 42                              |     | XA233  | 37        |     |           | 16B   | 9    |        | WR00LA | 02       | TRQ0AA | 01      | 3             | TT3  | C1                  | 20A         |                    |        |
| 11779         | XA327  | 43                              |     |        |           |     |           |       |      |        | TD132A | 02       | TD132A | 00      | 1             | TT3  | D2                  | 23B         | UPDATE TC13 TO T   |        |
| 02492         | XA327  | 44                              |     |        |           |     |           |       |      |        | GND    | 01       |        |         |               | TT3  |                     | 40A         |                    |        |
| 10535         | XA327  | 45                              |     | XA327  | 14        |     |           | 16B   | 9    |        | TC30BQ | 08       | TCAC8A | 01      | 1             | TT3  | D3                  | 24B         |                    |        |
| 10264         | XA327  | 46                              |     |        |           |     |           |       |      |        | TC13BP | 08       | TD132A | 01      | 2             | TT3  | D2                  | 21A         |                    |        |
| 10212         | XA327  | 47                              |     |        |           |     |           |       |      |        | TC11BP | 08       | TCAC8A | 01      | 2             | TT3  | D3                  | 25B         |                    |        |
| 14120         | XA327  | 48                              |     | XA219  | 71        |     |           | 16B   | 9    |        | TMETA0 | 03       | TD132A | 01      | 3             | TT3  | D2                  | 22A         |                    |        |
| 10520         | XA327  | 49                              |     | XA323  | 37        |     |           | 16B   | 9    |        | TC29B0 | 07       | TCAC8A | 01      | 3             | TT3  | D3                  | 26B         |                    |        |
| 11776         | XA327  | 50                              |     | XA222  | 01        |     |           | 16B   | 9    |        | TD131A | 01       | TD131A | 00      | 1             | TT3  | D1                  | 23A         | XFER TC13 TO TD1   |        |
| CONNECTOR     | XA327  | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |           |       |      |        |        |          |        |         |               |      |                     |             |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA327  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 219

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CMT OR CHIP TYPE | ORGM | LOAD OF POWER PLANE | TEST POINTS AND DP | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|--------|--------|------------------|------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |        |                  |      |                     |                    |                    |        |
| 09404   |        | XA327     | 51  |        | XA332     | 77  |             |      | 16B   | 9     |        | TCAC8A | 01       | TCAC8A | 00     | 1                | TT3  | D3                  | 27B                | TC CARRY GP6 FOR   |        |
| 10270   |        | XA327     | 52  |        | XA328     | 65  |             |      | 16B   | 9     |        | TC13BQ | 06       | TD131A | 01     | 1                | TT3  | D1                  | 24A                |                    |        |
| 10156   |        | XA327     | 53  |        | XA327     | 66  |             |      | 16B   | 9     |        | TC08BP | 06       | TBLZ5A | 01     | 1                | TT3  | E2                  | 28B                |                    |        |
| 10211   |        | XA327     | 54  |        | XA327     | 47  |             |      | 16B   | 9     |        | TC11BP | 07       | TD131A | 01     | 2                | TT3  | D1                  | 29A                |                    |        |
| 09045   |        | XA327     | 55  |        | XA324     | 62  |             |      | 16B   | 9     |        | TBLZ5A | 01       | TBLZ5A | 00     | 1                | TT3  | E2                  | 29B                | GROUP 4 BL FIELD   |        |
| 14119   |        | XA327     | 56  |        | XA327     | 48  |             |      | 16B   | 9     |        | TMFTA0 | 02       | TD131A | 01     | 3                | TT3  | D1                  | 26A                |                    |        |
| 10184   |        | XA327     | 57  |        | XA327     | 60  |             |      | 16B   | 9     |        | TC09BP | 03       | TU081A | 01     | 1                | TT3  | E3                  | 30B                |                    |        |
| 02493   |        | XA327     | 58  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  |      |                     | 40B                |                    |        |
| 10179   |        | XA327     | 59  |        | XA324     | 56  |             |      | 16B   | 9     |        | TC08C0 | 05       | TU081A | 01     | 2                | TT3  | E3                  | 31B                |                    |        |
| 10185   |        | XA327     | 60  |        | XA327     | 68  |             |      | 16B   | 9     |        | TC09BP | 04       | TBLZ5A | 01     | 2                | TT3  | F2                  | 28A                |                    |        |
| 10195   |        | XA327     | 61  |        | XA326     | 61  |             |      | 16B   | 9     |        | TC10BP | 04       | TU081A | 01     | 3                | TT3  | E3                  | 32B                |                    |        |
| 10201   |        | XA327     | 62  |        | XA325     | 62  |             |      | 16B   | 9     |        | TC10BP | 04       | TBLZ5A | 01     | 3                | TT3  | E2                  | 29A                |                    |        |
| 16729   |        | XA327     | 63  |        |           |     |             |      |       |       |        | TU081A | 02       | TU081A | 00     | 1                | TT3  | E3                  | 33B                | BL UPDATE TC10*    |        |
| 09039   |        | XA327     | 64  |        | XA350     | 61  |             |      | 16B   | 9     |        | TBLZ4A | 03       | TBLZ4A | 00     | 1                | TT3  | E1                  | 30A                | GROUP 4 BL FIELD   |        |
| 10209   |        | XA327     | 65  |        | XA329     | 69  |             |      | 16B   | 9     |        | TC11BP | 05       | TPS21A | 01     | 1                | TT3  | F2                  | 34B                |                    |        |
| 10157   |        | XA327     | 66  |        | XA329     | 59  |             |      | 16B   | 9     |        | TC08BP | 07       | TBLZ4A | 01     | 1                | TT3  | E1                  | 31A                |                    |        |
| 02494   |        | XA327     | 67  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  |      |                     |                    |                    |        |
| 10186   |        | XA327     | 68  |        | XA329     | 57  |             |      | 16B   | 9     |        | TC09BP | 05       | TBLZ4A | 01     | 2                | TT3  | E1                  | 32A                |                    |        |
| 16477   |        | XA327     | 69  |        | XA245     | 78  |             |      | 16B   | 9     |        | TS29F0 | 01       | TAWPOA | 01     | 1                | TT3  | F3                  | 35A                |                    |        |
| 10194   |        | XA327     | 70  |        | XA327     | 61  |             |      | 16B   | 9     |        | TC10BP | 03       | TBLZ4A | 01     | 3                | TT3  | E1                  | 33A                |                    |        |
| 15944   |        | XA327     | 71  |        |           |     |             |      |       |       |        | TS07BQ | 08       | TPS21A | 01     | 2                | TT3  | F2                  | 36A                |                    |        |
| 16969   |        | XA327     | 72  |        | XA342     | 26  |             |      | 16B   | 9     |        | TXC120 | 01       | TPS21A | 01     | 3                | TT3  | F2                  | 34A                |                    |        |
| 16151   |        | XA327     | 73  |        |           |     |             |      |       |       |        | TS14MA | 03       | TS14MA | 00     | 1                | TT3  | F1                  | 36B                | S13.BYTE MODE.M3   |        |
| 14899   |        | XA327     | 74  |        | XA141     | 53  |             |      | 16B   | 9     |        | TPS21A | 01       | TPS21A | 00     | 1                | TT3  | F2                  | 35B                | STATE 7.12.WORD    |        |
| 14526   |        | XA327     | 75  |        |           |     |             |      |       |       |        | TM03C0 | 10       | TS14MA | 01     | 1                | TT3  | F1                  | 37B                |                    |        |
| 13711   |        | XA327     | 76  |        | XA323     | 78  |             |      | 16B   | 9     |        | TKAACB | 16       | TAWPOA | 01     | 2                | TT3  | F3                  | 37A                |                    |        |
| 10219   |        | XA327     | 77  |        | XA324     | 73  |             |      | 16B   | 9     |        | TC11BP | 07       | TS14MA | 01     | 2                | TT3  | F1                  | 38B                |                    |        |
| 05547   |        | XA327     | 78  |        | XA325     | 56  |             |      | 16B   | 9     |        | SPI024 | 01       | TAWPOA | 01     | 3                | TT3  | F3                  | 38A                |                    |        |
| 16095   |        | XA327     | 79  |        | XA236     | 78  |             |      | 16B   | 9     |        | TS13BQ | 02       | TS14MA | 01     | 3                | TT3  | F1                  | 39B                |                    |        |
| 08452   |        | XA327     | 80  |        |           |     |             |      |       |       |        | TAWPOA | 05       | TAWPOA | 00     | 1                | TT3  | F3                  | 39A                | WRITE CONTROL PA   |        |
| 16707   |        | XA328     | 01  |        |           |     |             |      |       |       |        | TU004A | 02       | TU004A | 00     | 1                | TQ2  | A2                  | 02B                | BL UPDATE TC00*    |        |
| 02495   |        | XA328     | 02  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  |      |                     | 01A                |                    |        |
| 08953   |        | XA328     | 03  |        | XA139     | 14  |             |      | 16B   | 9     |        | TBLM10 | 02       | TD002A | 01     | 1                | TQ2  | A3                  | 02A                |                    |        |
| 10065   |        | XA328     | 04  |        | XA329     | 09  |             |      | 16B   | 9     |        | TC01BP | 02       | TU004A | 01     | 1                | TQ2  | A2                  | 04A                |                    |        |
| 10058   |        | XA328     | 05  |        | XA227     | 72  |             |      | 16B   | 9     |        | TC00BP | 03       | TU004A | 01     | 2                | TQ2  | A2                  | 03B                |                    |        |
| 16704   |        | XA328     | 06  |        | XA326     | 08  |             |      | 16B   | 9     |        | TU003A | 01       | TU003A | 00     | 1                | TQ2  | A1                  | 05A                | BL UPDATE TC00.    |        |
| 16703   |        | XA328     | 07  |        |           |     |             |      |       |       |        | TU00A0 | 02       | TD002A | 01     | 2                | TQ2  | A3                  | 03A                |                    |        |
| 10070   |        | XA328     | 08  |        | XA326     | 18  |             |      | 16B   | 9     |        | TC01BP | 02       | TU003A | 01     | 1                | TQ2  | A1                  | 06A                |                    |        |
| 11314   |        | XA328     | 09  |        |           |     |             |      |       |       |        | TD002A | 02       | TD002A | 00     | 1                | TQ2  | A3                  | 04B                | UPDATE TC00 TO T   |        |
| 10061   |        | XA328     | 10  |        | XA326     | 05  |             |      | 16B   | 9     |        | TC00BQ | 02       | TU003A | 01     | 2                | TQ2  | A1                  | 07A                |                    |        |
| 10057   |        | XA328     | 11  |        | XA328     | 05  |             |      | 16B   | 9     |        | TC00BP | 02       | TBLZ1A | 01     | 1                | TQ2  | A4                  | 05B                |                    |        |
| 00517   |        | XA328     | 12  |        |           |     |             |      |       |       |        | +5V    | 01       |        |        |                  |      |                     |                    |                    |        |
| 10067   |        | XA328     | 13  |        | XA326     | 19  |             |      | 16B   | 9     |        | TC01BP | 04       | TBLZ1A | 01     | 2                | TQ2  | A4                  | 06B                |                    |        |
| 09917   |        | XA328     | 14  |        | XA326     | 03  |             |      | 16B   | 9     |        | TCST40 | 01       | TCST40 | 00     | 1                | TQ2  | B2                  | 09A                | SET GATE TC00 (F   |        |
| 09020   |        | XA328     | 15  |        | XA324     | 11  |             |      | 16B   | 9     |        | TBLZ1A | 00       | TBLZ1A | 00     | 1                | TQ2  | A4                  | 07B                | GROUP 1 BL FIELD   |        |
| 02496   |        | XA328     | 16  |        |           |     |             |      |       |       |        | GND    | 01       |        |        |                  |      |                     | 01B                |                    |        |
| 10074   |        | XA328     | 17  |        | XA327     | 03  |             |      | 16B   | 9     |        | TC02BP | 02       | TU0220 | 01     | 1                | TQ2  | B3                  | 08B                |                    |        |
| 09922   |        | XA328     | 18  |        | XA351     | 30  |             |      | 16B   | 9     |        | TCST6A | 02       | TCST40 | 01     | 1                | TQ2  | B2                  | 10A                |                    |        |
| CONNECTOR (XA328) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |        |        |                  |      |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA327  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 220

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEC NO | QUATION | TERM | FACT | CKT OR CHIP TYPE | GRP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|---------|------|------|------------------|-----|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |        |        |         |      |      |                  |     |                     |                    |                    |        |
| 09024   | XA328  | 19        |     |      | XA327  | 07        |     |      |             | 16B  | 9     |       | TBLZ2A | 01     | TU0220  | 01   | 2    | TQ2              | B3  |                     | 09B                |                    |        |
| 09920   | XA328  | 20        |     |      | XA351  | 34        |     |      |             | 16B  | 9     |       | TCST5A | 02     | TCST40  | 01   | 2    | TQ2              | B2  |                     | 11A                |                    |        |
| 16710   | XA328  | 21        |     |      | XA315  | 68        |     |      |             | 16B  | 9     |       | TU0220 | 01     | TU0220  | 00   | 1    | TQ2              | B3  |                     | 10B                | BL UPDATE TC04*    |        |
| 09604   | XA328  | 22        |     |      | XA329  | 26        |     |      |             | 16B  | 9     |       | TCCKAA | 04     | TCCKAA  | 00   | 1    | TQ2              | B1  |                     | 12A                | CLK INPUT TC00-1   |        |
| 10080   | XA328  | 23        |     |      | XA327  | 06        |     |      |             | 16B  | 9     |       | TC02BQ | 04     | TU021A  | 01   | 1    | TQ2              | B4  |                     | 11B                |                    |        |
| 13708   | XA328  | 24        |     |      | XA328  | 54        |     |      |             | 16B  | 9     |       | TKAACB | 13     | TCCKAA  | 01   | 1    | TQ2              | B1  |                     | 13A                |                    |        |
| 08991   | XA328  | 25        |     |      | XA326  | 23        |     |      |             | 16B  | 9     |       | TBLX20 | 01     | TU021A  | 01   | 2    | TQ2              | B4  |                     | 12B                |                    |        |
| 09648   | XA328  | 26        |     |      | XA326  | 54        |     |      |             | 16B  | 9     |       | TCD1B0 | 03     | TCCKAA  | 01   | 2    | TQ2              | B1  |                     | 14A                |                    |        |
| 11394   | XA328  | 27        |     |      | XA228  | 18        |     |      |             | 16B  | 9     |       | TU021A | 01     | TU021A  | 00   | 1    | TQ2              | B4  |                     | 13B                | XFER TC02 TO TDO   |        |
| 00518   | XA328  | 28        |     |      |        |           |     |      |             |      |       |       | +5V    | 01     |         |      |      | TQ2              |     |                     |                    |                    |        |
| 11323   | XA328  | 29        |     |      |        |           |     |      |             |      |       |       | TU0050 | 03     | TU007A  | 01   | 1    | TQ2              | C3  |                     | 14B                |                    |        |
| 16713   | XA328  | 30        |     |      |        |           |     |      |             |      |       |       | TU03A0 | 02     | TU03A0  | 00   | 1    | TQ2              | C2  |                     | 15A                | BL UPDATE TC03.    |        |
| 14476   | XA328  | 31        |     |      | XA245  | 25        |     |      |             | 16B  | 9     |       | TU01C0 | 09     | TU007A  | 01   | 2    | TQ2              | C3  |                     | 15B                |                    |        |
| 02497   | XA328  | 32        |     |      |        |           |     |      |             |      |       |       | GND    | 01     |         |      |      | TQ2              |     |                     | 20B                |                    |        |
| 11326   | XA328  | 33        |     |      | XA228  | 04        |     |      |             | 16B  | 9     |       | TU007A | 01     | TU007A  | 00   | 1    | TQ2              | C3  |                     | 16B                | SET INPUT FOR MEM  |        |
| 16716   | XA328  | 34        |     |      | XA332  | 27        |     |      |             | 16B  | 9     |       | TU034A | 01     | TU03A0  | 01   | 1    | TQ2              | C2  |                     | 16A                |                    |        |
| 10120   | XA328  | 35        |     |      | XA319  | 66        |     |      |             | 16B  | 9     |       | TC05BQ | 06     | TU051A  | 01   | 1    | TQ2              | C4  |                     | 17B                |                    |        |
| 16715   | XA328  | 36        |     |      |        |           |     |      |             |      |       |       | TU033A | 02     | TU03A0  | 01   | 2    | TQ2              | C2  |                     | 17A                |                    |        |
| 08997   | XA328  | 37        |     |      | XA140  | 45        |     |      |             | 16B  | 9     |       | TBLX30 | 03     | TU051A  | 01   | 2    | TQ2              | C4  |                     | 18B                |                    |        |
| 07899   | XA328  | 38        |     |      |        |           |     |      |             |      |       |       | SPO    | 01     |         |      |      | TQ2              | C1  |                     | 18A                |                    |        |
| 11512   | XA328  | 39        |     |      | XA227  | 42        |     |      |             | 16B  | 9     |       | TU051A | 01     | TU051A  | 00   | 1    | TQ2              | C4  |                     | 19B                | XFER TC05 TO TDO   |        |
| 05587   | XA328  | 40        |     |      | XA329  | 39        |     |      |             | 16B  | 9     |       | SPI025 | 15     |         | 01   | 1    | TQ2              | C1  |                     | 19A                |                    |        |
| 08996   | XA328  | 41        |     |      | XA328  | 37        |     |      |             | 16B  | 9     |       | TBLX30 | 02     | TU071A  | 01   | 1    | TQ2              | D3  |                     | 22B                |                    |        |
| 05549   | XA328  | 42        |     |      | XA329  | 38        |     |      |             | 16B  | 9     |       | SPI024 | 03     |         | 01   | 2    | TQ2              | C1  |                     | 20A                |                    |        |
| 10147   | XA328  | 43        |     |      | XA326  | 41        |     |      |             | 16B  | 9     |       | TC07BQ | 04     | TU071A  | 01   | 2    | TQ2              | D3  |                     | 23B                |                    |        |
| 02498   | XA328  | 44        |     |      |        |           |     |      |             |      |       |       | GND    | 01     |         |      |      | TQ2              |     |                     | 21B                |                    |        |
| 11584   | XA328  | 45        |     |      | XA227  | 54        |     |      |             | 16B  | 9     |       | TU071A | 01     | TU071A  | 00   | 1    | TQ2              | D3  |                     | 24B                | XFER TC07 TO TDO   |        |
| 11548   | XA328  | 46        |     |      | XA228  | 43        |     |      |             | 16B  | 9     |       | TU061A | 01     | TU061A  | 00   | 1    | TQ2              | D2  |                     | 21A                | XFER TC06 TO TDO   |        |
| 08963   | XA328  | 47        |     |      | XA327  | 22        |     |      |             | 16B  | 9     |       | TBLM30 | 01     | TU072A  | 01   | 1    | TQ2              | D4  |                     | 25B                |                    |        |
| 10133   | XA328  | 48        |     |      | XA326  | 43        |     |      |             | 16B  | 9     |       | TC06BQ | 05     | TU061A  | 01   | 1    | TQ2              | D2  |                     | 22A                |                    |        |
| 10139   | XA328  | 49        |     |      | XA326  | 48        |     |      |             | 16B  | 9     |       | TC07BP | 04     | TU072A  | 01   | 2    | TQ2              | D4  |                     | 26B                |                    |        |
| 08995   | XA328  | 50        |     |      | XA328  | 41        |     |      |             | 16B  | 9     |       | TBLX30 | 01     | TU061A  | 01   | 2    | TQ2              | D2  |                     | 23A                |                    |        |
| 11587   | XA328  | 51        |     |      |        |           |     |      |             |      |       |       | TU072A | 02     | TU072A  | 00   | 1    | TQ2              | D4  |                     | 27B                | UPDATE TC07 TO T   |        |
| 09610   | XA328  | 52        |     |      | XA329  | 46        |     |      |             | 16B  | 9     |       | TCCKBA | 04     | TCCKBA  | 00   | 1    | TQ2              | D1  |                     | 24A                | CLK INPUT TC00-1   |        |
| 10217   | XA328  | 53        |     |      | XA329  | 74        |     |      |             | 16B  | 9     |       | TC11BQ | 05     | TQES1A  | 01   | 1    | TQ2              | E3  |                     | 28B                |                    |        |
| 13709   | XA328  | 54        |     |      | XA326  | 56        |     |      |             | 16B  | 9     |       | TKAACB | 14     | TCCKBA  | 01   | 1    | TQ2              | D1  |                     | 25A                |                    |        |
| 10178   | XA328  | 55        |     |      | XA327  | 59        |     |      |             | 16B  | 9     |       | TC08C0 | 04     | TQES1A  | 01   | 2    | TQ2              | E3  |                     | 29B                |                    |        |
| 09650   | XA328  | 56        |     |      | XA334  | 59        |     |      |             | 16B  | 9     |       | TCD1B0 | 05     | TCCKBA  | 01   | 2    | TQ2              | D1  |                     | 26A                |                    |        |
| 15094   | XA328  | 57        |     |      |        |           |     |      |             |      |       |       | TQES1A | 02     | TQES1A  | 00   | 1    | TQ2              | E3  |                     | 30B                | EPL Q SEL BIT 21   |        |
| 02499   | XA328  | 58        |     |      |        |           |     |      |             |      |       |       | GND    | 01     |         |      |      | TQ2              |     |                     | 27A                |                    |        |
| 09001   | XA328  | 59        |     |      | XA139  | 54        |     |      |             | 16B  | 9     |       | TBLX40 | 03     | TU091A  | 01   | 1    | TQ2              | E4  |                     | 31B                |                    |        |
| 15091   | XA328  | 60        |     |      | XA326  | 31        |     |      |             | 16B  | 9     |       | TQES0A | 01     | TQES0A  | 00   | 1    | TQ2              | E2  |                     | 28A                | EPL Q SEL BIT 20   |        |
| 10188   | XA328  | 61        |     |      | XA329  | 55        |     |      |             | 16B  | 9     |       | TC09BQ | 01     | TU091A  | 01   | 2    | TQ2              | E4  |                     | 32B                |                    |        |
| 10200   | XA328  | 62        |     |      | XA327  | 62        |     |      |             | 16B  | 9     |       | TC10BQ | 03     | TQES0A  | 01   | 1    | TQ2              | E2  |                     | 29A                |                    |        |
| 11646   | XA328  | 63        |     |      | XA227  | 70        |     |      |             | 16B  | 9     |       | TU091A | 01     | TU091A  | 00   | 1    | TQ2              | E4  |                     | 33B                | XFER TC09 TO TDO   |        |
| 10177   | XA328  | 64        |     |      | XA328  | 55        |     |      |             | 16B  | 9     |       | TC08C0 | 03     | TQES0A  | 01   | 2    | TQ2              | E2  |                     | 30A                |                    |        |
| 10271   | XA328  | 65        |     |      |        |           |     |      |             |      |       |       | TC13BQ | 07     | TQES3A  | 01   | 1    | TQ2              | F3  |                     | 34B                |                    |        |
| 11615   | XA328  | 66        |     |      | XA228  | 55        |     |      |             | 16B  | 9     |       | TU081A | 01     | TU081A  | 00   | 1    | TQ2              | E1  |                     | 31A                | XFER TC08 TO TDO   |        |
| 02500   | XA328  | 67        |     |      |        |           |     |      |             |      |       |       | GND    | 01     |         |      |      | TQ2              |     |                     | 40A                |                    |        |
| 09000   | XA328  | 68        |     |      | XA328  | 59        |     |      |             | 16B  | 9     |       | TBLX40 | 02     | TU081A  | 01   | 1    | TQ2              | E1  |                     | 32A                |                    |        |
| CONNECTOR (XA328) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |         |      |      |                  |     |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA328  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 221

| RECORD NUMBER                                   | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |        | SIGNAL | SEQ NO | EQUATION | TRN | FACTOR | CKT GP CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|--------|--------|--------|----------|-----|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH 12 | PREFIX | CONNECTOR | PIN | SH 12 | MULTI GROUP | CODE | COLOR | IDENT  |        |        |          |     |        |                  |       |                     |                    |                    |        |
| 15098   |        | XA328     | 69  |       |        |           |     |       |             |      |       |        | TQES3A | 02     | TQES3A   | 00  | 1      | TQ2              | F3    |                     | 35A                | EPL Q SEL BIT 23   |        |
| 10167   |        | XA328     | 70  |       |        |           |     |       |             |      |       | TC08BQ | 08     | TQ081A | 01       | 2   | TQ2    | E1               |       |                     | 33A                |                    |        |
| 10175   |        | XA328     | 71  |       | XA328  | 74        |     |       | 16B         | 9    |       | TC08C0 | 01     | TQES2A | 01       | 1   | TQ2    | F2               |       |                     | 36A                |                    |        |
| 15095   |        | XA328     | 72  |       | XA326  | 68        |     |       | 16B         | 9    |       | TQES2A | 01     | TQES2A | 00       | 1   | TQ2    | F2               |       |                     | 34A                | EPL Q SEL BIT 22   |        |
| 10250   |        | XA328     | 73  |       | XA322  | 25        |     |       | 16B         | 9    |       | TC12BQ | 02     | TQES2A | 01       | 2   | TQ2    | F2               |       |                     | 36B                |                    |        |
| 10176   |        | XA328     | 74  |       | XA328  | 64        |     |       | 16B         | 9    |       | TC08C0 | 02     | TQES3A | 01       | 2   | TQ2    | F3               |       |                     | 35B                |                    |        |
| 11677   |        | XA328     | 75  |       | XA228  | 71        |     |       | 16B         | 9    |       | TD101A | 01     | TD101A | 00       | 1   | TQ2    | F1               |       |                     | 37B                | XFER TC10 TO TD1   |        |
| 10233   |        | XA328     | 76  |       | XA324  | 70        |     |       | 16B         | 9    |       | TC11C0 | 01     | TD111A | 01       | 1   | TQ2    | F4               |       |                     | 37A                |                    |        |
| 10199   |        | XA328     | 77  |       | XA328  | 62        |     |       | 16B         | 9    |       | TC1J8Q | 02     | TD101A | 01       | 1   | TQ2    | F1               |       |                     | 38B                |                    |        |
| 14118   |        | XA328     | 78  |       | XA327  | 56        |     |       | 16B         | 9    |       | TMFA00 | 01     | TD111A | 01       | 2   | TQ2    | F4               |       |                     | 38A                |                    |        |
| 08999   |        | XA328     | 79  |       | XA328  | 68        |     |       | 16B         | 9    |       | TBLX40 | 01     | TD101A | 01       | 2   | TQ2    | F1               |       |                     | 39B                |                    |        |
| 11710   |        | XA328     | 80  |       | XA424  | 55        |     |       | 16B         | 9    |       | TD111A | 01     | TD111A | 00       | 1   | TQ2    | F4               |       |                     | 39A                | XFER TC10 TO TD1   |        |
| 09601   |        | XA329     | 01  |       | XA329  | 10        |     |       | 16B         | 9    |       | TCCKAA | 01     | TC01BN | 01       | 1   | TDD    | BN               |       |                     | 02B                |                    |        |
| 02501   |        | XA329     | 02  |       |        |           |     |       |             |      |       | GND    | 01     |        |          |     | TDD    |                  |       |                     | 01B                |                    |        |
| 09671   |        | XA329     | 03  |       | XA334  | 68        |     |       | 16B         | 9    |       | TC014A | 05     | TC01BQ | 01       | 1   | TDD    | BQ               |       |                     | 02A                |                    |        |
| 05591   |        | XA329     | 04  |       | XA325  | 06        |     |       | 16B         | 9    |       | SPI025 | 19     | TC01BP | 01       | 1   | TDD    | BP               |       |                     | 04A                |                    |        |
| 11341   |        | XA329     | 05  |       | XA419  | 13        |     |       | 16B         | 9    |       | TD018Q | 06     | TC01B1 | 01       | 1   | TDD    | B1               |       |                     | 03B                |                    |        |
| 05552   |        | XA329     | 06  |       | XA325  | 07        |     |       | 16B         | 9    |       | SPI024 | 06     | TC00BP | 01       | 1   | TDD    | AP               |       |                     | 05A                |                    |        |
| 10069   |        | XA329     | 07  |       | XA328  | 08        |     |       | 16B         | 9    |       | TC01BQ | 01     | TC01BQ | 00       | 1   | TDD    | BQ               |       |                     | 03A                | CONTROL REG BIT    |        |
| 11298   |        | XA329     | 08  |       | XA351  | 31        |     |       | 16B         | 9    |       | TC0010 | 01     | TC00B1 | 01       | 1   | TDD    | AI               |       |                     | 06A                |                    |        |
| 10066   |        | XA329     | 09  |       | XA328  | 13        |     |       | 16B         | 9    |       | TC01BP | 03     | TC01BP | 00       | 1   | TDD    | BP               |       |                     | 04B                | CONTROL REG BIT    |        |
| 09602   |        | XA329     | 10  |       | XA329  | 14        |     |       | 16B         | 9    |       | TCCKAA | 02     | TC00BN | 01       | 1   | TDD    | AN               |       |                     | 07A                |                    |        |
| 10056   |        | XA329     | 11  |       | XA328  | 11        |     |       | 16B         | 9    |       | TC00BP | 01     | TC03BP | 00       | 1   | TDD    | AP               |       |                     | 05B                | CONTROL REG BIT    |        |
| 00519   |        | XA329     | 12  |       |        |           |     |       |             |      |       | +5V    | 01     |        |          |     | TDD    |                  |       |                     |                    |                    |        |
| 10060   |        | XA329     | 13  |       | XA328  | 10        |     |       | 16B         | 9    |       | TC00BQ | 01     | TC00BQ | 00       | 1   | TDD    | AQ               |       |                     | 06F                | CONTROL REG BIT    |        |
| 09603   |        | XA329     | 14  |       | XA328  | 22        |     |       | 16B         | 9    |       | TCCKAA | 03     | TC03BN | 01       | 1   | TDD    | DN               |       |                     | 09A                |                    |        |
| 09915   |        | XA329     | 15  |       | XA329  | 63        |     |       | 16B         | 9    |       | SPI025 | 035    | TC00BQ | 01       | 1   | TDD    | AQ               |       |                     | 07B                |                    |        |
| 02502   |        | XA329     | 16  |       |        |           |     |       |             |      |       | GND    | 01     |        |          |     | TDD    |                  |       |                     | 20B                |                    |        |
| 13653   |        | XA329     | 17  |       | XA426  | 41        |     |       | 16B         | 9    |       | TI311A | 09     | TC03BQ | 01       | 1   | TDD    | DQ               |       |                     | 08B                |                    |        |
| 11427   |        | XA329     | 18  |       | XA419  | 04        |     |       | 16B         | 9    |       | TD03BQ | 06     | TC03B1 | 01       | 1   | TDD    | DI               |       |                     | 10A                |                    |        |
| 10091   |        | XA329     | 19  |       | XA326  | 25        |     |       | 16B         | 9    |       | TC03BQ | 04     | TC03BQ | 00       | 1   | TDD    | DQ               |       |                     | 09B                | CONTROL REG BIT    |        |
| 05436   |        | XA329     | 20  |       | XA330  | 26        |     |       | 16B         | 9    |       | SPI020 | 09     | TC03BP | 01       | 1   | TDD    | DP               |       |                     | 11A                |                    |        |
| 10084   |        | XA329     | 21  |       | XA327  | 10        |     |       | 16B         | 9    |       | TC03BP | 02     | TC03BP | 00       | 1   | TDD    | DP               |       |                     | 10B                | CONTROL REG BIT    |        |
| 05551   |        | XA329     | 22  |       | XA329  | 06        |     |       | 16B         | 9    |       | SPI024 | 05     | TC02BP | 01       | 1   | TDD    | CP               |       |                     | 12A                |                    |        |
| 10073   |        | XA329     | 23  |       | XA328  | 17        |     |       | 16B         | 9    |       | TC02BP | 01     | TC02BP | 00       | 1   | TDD    | CP               |       |                     | 11B                | CONTROL REG BIT    |        |
| 11381   |        | XA329     | 24  |       | XA419  | 08        |     |       | 16B         | 9    |       | TD02BQ | 06     | TC02B1 | 01       | 1   | TDD    | CI               |       |                     | 13A                |                    |        |
| 10079   |        | XA329     | 25  |       | XA328  | 23        |     |       | 16B         | 9    |       | TC02BQ | 03     | TC02BQ | 00       | 1   | TDD    | CQ               |       |                     | 12B                | CONTROL REG BIT    |        |
| 09605   |        | XA329     | 26  |       | XA329  | 42        |     |       | 16B         | 9    |       | TCCKAA | 05     | TC02BN | 01       | 1   | TDD    | CN               |       |                     | 14A                |                    |        |
| 05589   |        | XA329     | 27  |       | XA330  | 20        |     |       | 16B         | 9    |       | SPI025 | 17     | TC02BQ | 01       | 1   | TDD    | CQ               |       |                     | 13B                |                    |        |
| 00520   |        | XA329     | 28  |       |        |           |     |       |             |      |       | +5V    | 01     |        |          |     | TDD    |                  |       |                     |                    |                    |        |
| 05613   |        | XA329     | 29  |       | XA329  | 41        |     |       | 16B         | 9    |       | SPI026 | 05     | TC05BQ | 01       | 1   | TDD    | FQ               |       |                     | 14B                |                    |        |
| 09612   |        | XA329     | 30  |       |        |           |     |       |             |      |       | TCCKBA | 06     | TC05BN | 01       | 1   | TDD    | FN               |       |                     | 15A                |                    |        |
| 10119   |        | XA329     | 31  |       | XA328  | 35        |     |       | 16B         | 9    |       | TC05BQ | 05     | TC05BQ | 00       | 1   | TDD    | FQ               |       |                     | 15B                | CONTROL REG BIT    |        |
| 02503   |        | XA329     | 32  |       |        |           |     |       |             |      |       | GND    | 01     |        |          |     | TDD    |                  |       |                     | 21B                |                    |        |
| 10112   |        | XA329     | 33  |       | XA327  | 33        |     |       | 16B         | 9    |       | TC05BP | 04     | TC05BP | 00       | 1   | TDD    | FP               |       |                     | 16B                | CONTROL REG BIT    |        |
| 11499   |        | XA329     | 34  |       | XA419  | 33        |     |       | 16B         | 9    |       | TD05BQ | 06     | TC05B1 | 01       | 1   | TDD    | F1               |       |                     | 16A                |                    |        |
| 10097   |        | XA329     | 35  |       | XA326  | 36        |     |       | 16B         | 9    |       | TC04BP | 04     | TC04BP | 00       | 1   | TDD    | EP               |       |                     | 17B                | CONTROL REG BIT    |        |
| 05438   |        | XA329     | 36  |       | XA330  | 50        |     |       | 16B         | 9    |       | SPI020 | 11     | TC05BP | 01       | 1   | TDD    | FP               |       |                     | 17A                |                    |        |
| CONNECTOR XA329 CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |        |        |        |          |     |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA329  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 222

| RECORD NUMBER     | FROM   |                                 |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SPU NO | EQUATION | TERMINATOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER POLING | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|-------------------|--------|---------------------------------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------------|------------------|-------|----------------------|--------------------|--------------------|--------|
|                   | PREFIX | CONNECTOR                       | PIN | LINE | PREFIX | CONNECTOR | PIN | LINE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |            |                  |       |                      |                    |                    |        |
| 10106             | XA329  | 37                              |     |      | XA332  | 40        |     |      |             | 16B  | 9     |       | TC04BQ | 05     | TC04BQ   | 00         | 1                | TDD   | EQ                   | 18B                | CONTROL REG BIT    |        |
| 05550             | XA329  | 38                              |     |      | XA329  | 22        |     |      |             | 16B  | 9     |       | SPI024 | 04     | TC04BP   | 01         | 1                | TDD   | EP                   | 18A                |                    |        |
| 05588             | XA329  | 39                              |     |      | XA329  | 27        |     |      |             | 16B  | 9     |       | SPI025 | 16     | TC04BQ   | 01         | 1                | TDD   | EQ                   | 19B                |                    |        |
| 11463             | XA329  | 40                              |     |      | XA419  | 31        |     |      |             | 16B  | 9     |       | T004BQ | 06     | TC04BI   | 01         | 1                | TDD   | EI                   | 19A                |                    |        |
| 05614             | XA329  | 41                              |     |      | XA321  | 41        |     |      |             | 16B  | 9     |       | SPI026 | 06     | TC07BQ   | 01         | 1                | TDD   | HO                   | 22B                |                    |        |
| 09606             | XA329  | 42                              |     |      |        |           |     |      |             |      |       |       | TCCKAA | 06     | TC04BN   | 01         | 1                | TDD   | EN                   | 20A                |                    |        |
| 10146             | XA329  | 43                              |     |      | XA328  | 43        |     |      |             | 16B  | 9     |       | TC07BQ | 03     | TC07BQ   | 00         | 1                | TDD   | HO                   | 23B                | CONTROL REG BIT    |        |
| 02504             | XA329  | 44                              |     |      |        |           |     |      |             |      |       |       | GND    | 01     |          |            |                  | TDD   |                      | 27A                |                    |        |
| 10138             | XA329  | 45                              |     |      | XA328  | 49        |     |      |             | 16B  | 9     |       | TC07BP | 03     | TC07BP   | 00         | 1                | TDD   | HP                   | 24B                | CONTROL REG BIT    |        |
| 09611             | XA329  | 46                              |     |      | XA329  | 30        |     |      |             | 16B  | 9     |       | TCCKBA | 05     | TC07BN   | 01         | 1                | TDD   | HN                   | 21A                |                    |        |
| 10126             | XA329  | 47                              |     |      | XA332  | 56        |     |      |             | 16B  | 9     |       | TC06BP | 05     | TC06BP   | 00         | 1                | TDD   | GP                   | 25B                | CONTROL REG BIT    |        |
| 11571             | XA329  | 48                              |     |      | XA419  | 34        |     |      |             | 16B  | 9     |       | T007BQ | 06     | TC07BI   | 01         | 1                | TDD   | HI                   | 22A                |                    |        |
| 10132             | XA329  | 49                              |     |      | XA328  | 48        |     |      |             | 16B  | 9     |       | TC06BQ | 04     | TC06BQ   | 00         | 1                | TDD   | GO                   | 26B                | CONTROL REG BIT    |        |
| 05440             | XA329  | 50                              |     |      | XA329  | 53        |     |      |             | 16B  | 9     |       | SPI020 | 13     | TC07BP   | 01         | 1                | TDD   | HP                   | 23A                |                    |        |
| 05586             | XA329  | 51                              |     |      | XA328  | 40        |     |      |             | 16B  | 9     |       | SPI025 | 14     | TC06BP   | 01         | 1                | TDD   | GO                   | 27B                |                    |        |
| 05648             | XA329  | 52                              |     |      | XA329  | 66        |     |      |             | 16B  | 9     |       | SPI027 | 05     | TC06BP   | 01         | 1                | TDD   | GP                   | 24A                |                    |        |
| 05441             | XA329  | 53                              |     |      | XA329  | 65        |     |      |             | 16B  | 9     |       | SPI020 | 14     | TC09BQ   | 01         | 1                | TDD   | KQ                   | 28B                |                    |        |
| 11535             | XA329  | 54                              |     |      | XA419  | 38        |     |      |             | 16B  | 9     |       | T006BQ | 06     | TC06BI   | 01         | 1                | TDD   | GI                   | 25A                |                    |        |
| 10189             | XA329  | 55                              |     |      | XA326  | 53        |     |      |             | 16B  | 9     |       | TC09BQ | 02     | TC09BQ   | 00         | 1                | TDD   | KQ                   | 29B                | CONTROL REG BIT    |        |
| 09609             | XA329  | 56                              |     |      | XA328  | 52        |     |      |             | 16B  | 9     |       | TCCKBA | 03     | TC06BN   | 01         | 1                | TDD   | GN                   | 26A                |                    |        |
| 10187             | XA329  | 57                              |     |      |        |           |     |      |             |      |       |       | TC09BP | 06     | TC09BP   | 00         | 1                | TDD   | KP                   | 30B                | CONTROL REG BIT    |        |
| 02505             | XA329  | 58                              |     |      |        |           |     |      |             |      |       |       | GND    | 01     |          |            |                  | TDD   |                      | 40A                |                    |        |
| 10158             | XA329  | 59                              |     |      | XA136  | 08        |     |      |             | 16B  | 9     |       | TC08BP | 08     | TC08BP   | 00         | 1                | TDD   | JP                   | 31B                | CONTROL REG BIT    |        |
| 09608             | XA329  | 60                              |     |      | XA329  | 56        |     |      |             | 16B  | 9     |       | TCCKBA | 02     | TC09BN   | 01         | 1                | TDD   | KN                   | 28A                |                    |        |
| 10166             | XA329  | 61                              |     |      | XA328  | 70        |     |      |             | 16B  | 9     |       | TC08BQ | 07     | TC08BQ   | 00         | 1                | TDD   | JQ                   | 32B                | CONTROL REG BIT    |        |
| 11633             | XA329  | 62                              |     |      | XA419  | 51        |     |      |             | 16B  | 9     |       | T009BQ | 06     | TC09BI   | 01         | 1                | TDD   | KI                   | 29A                |                    |        |
| 09662             | XA329  | 63                              |     |      | XA329  | 64        |     |      |             | 16B  | 9     |       | SPI025 | 01     | TC08BQ   | 01         | 1                | TDD   | JQ                   | 33B                |                    |        |
| 05574             | XA329  | 64                              |     |      | XA330  | 72        |     |      |             | 16B  | 9     |       | SPI025 | 02     | TC09BP   | 01         | 1                | TDD   | KP                   | 30A                |                    |        |
| 05442             | XA329  | 65                              |     |      | XA317  | 71        |     |      |             | 16B  | 9     |       | SPI020 | 15     | TC11BQ   | 01         | 1                | TDD   | MQ                   | 34B                |                    |        |
| 05649             | XA329  | 66                              |     |      | XA329  | 75        |     |      |             | 16B  | 9     |       | SPI027 | 06     | TC08BP   | 01         | 1                | TDD   | JP                   | 31A                |                    |        |
| 02506             | XA329  | 67                              |     |      |        |           |     |      |             |      |       |       | GND    | 01     |          |            |                  | TDD   |                      | 40B                |                    |        |
| 11602             | XA329  | 68                              |     |      |        |           |     |      |             |      |       |       | TC0810 | 02     | TC08BI   | 01         | 1                | TDD   | JI                   | 32A                |                    |        |
| 10210             | XA329  | 69                              |     |      | XA327  | 54        |     |      |             | 16B  | 9     |       | TC11BP | 06     | TC11BP   | 00         | 1                | TDD   | MP                   | 35A                | RESET FOR CPU COM  |        |
| 09607             | XA329  | 70                              |     |      | XA329  | 60        |     |      |             | 16B  | 9     |       | TCCKBA | 01     | TC08BN   | 01         | 1                | TDD   | JN                   | 33A                |                    |        |
| 11697             | XA329  | 71                              |     |      | XA419  | 50        |     |      |             | 16B  | 9     |       | T011BQ | 06     | TC11BI   | 01         | 1                | TDD   | MI                   | 36A                |                    |        |
| 09618             | XA329  | 72                              |     |      | XA329  | 79        |     |      |             | 16B  | 9     |       | TCCKCA | 06     | TC11BN   | 01         | 1                | TDD   | MN                   | 34A                |                    |        |
| 09855             | XA329  | 73                              |     |      | XA342  | 41        |     |      |             | 16B  | 9     |       | TCPDIA | 03     | TC11BP   | 01         | 1                | TDD   | MP                   | 36B                |                    | 005    |
| 10218             | XA329  | 74                              |     |      | XA327  | 77        |     |      |             | 16B  | 9     |       | TC11BQ | 06     | TC11BQ   | 00         | 1                | TDD   | MQ                   | 35B                | CONTROL REG BIT    |        |
| 05650             | XA329  | 75                              |     |      | XA330  | 79        |     |      |             | 16B  | 9     |       | SPI027 | 07     | TC10BP   | 01         | 1                | TDD   | LP                   | 37B                |                    |        |
| 10193             | XA329  | 76                              |     |      | XA327  | 70        |     |      |             | 16B  | 9     |       | TC10BP | 02     | TC10BP   | 00         | 1                | TDD   | LP                   | 37A                | CONTROL REG BIT    |        |
| 11664             | XA329  | 77                              |     |      | XA419  | 54        |     |      |             | 16B  | 9     |       | T010BQ | 06     | TC10BI   | 01         | 1                | TDD   | LI                   | 38B                |                    |        |
| 10198             | XA329  | 78                              |     |      | XA328  | 77        |     |      |             | 16B  | 9     |       | TC10BQ | 01     | TC10BQ   | 00         | 1                | TDD   | LQ                   | 38A                | CONTROL REG BIT    |        |
| 09619             | XA329  | 79                              |     |      |        |           |     |      |             |      |       |       | TCCKCA | 07     | TC10BN   | 01         | 1                | TDD   | LN                   | 39B                |                    |        |
| 05576             | XA329  | 80                              |     |      | XA335  | 79        |     |      |             | 16B  | 9     |       | SPI025 | 04     | TC10BQ   | 01         | 1                | TDD   | LQ                   | 39A                |                    |        |
| 08831             | XA330  | 01                              |     |      | XA330  | 70        |     |      |             | 16B  | 9     |       | T015A  | 01     | TITCAO   | 01         | 1                | TS8   | A1                   | 02B                |                    |        |
| 02507             | XA330  | 02                              |     |      |        |           |     |      |             |      |       |       | GND    | 01     |          |            |                  |       |                      | 01A                |                    |        |
| 01202             | XA330  | 03                              |     |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |            |                  |       |                      |                    |                    |        |
| 16517             | XA330  | 04                              |     |      |        |           |     |      |             |      |       |       | TS6BRA | 02     | TITCAO   | 01         | 2                | TS8   | A1                   | 04A                |                    |        |
| CONNECTOR (XA330) |        | CONTINUED ON THE NEXT PAGE **** |     |      |        |           |     |      |             |      |       |       |        |        |          |            |                  |       |                      |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA330  
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| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE        |      |       | SPE. INST. MISC. | SIGNAL | SEQ NO. | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND JF | SIGNAL DESCRIPTION | ECO NO. |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|-------------|------|-------|------------------|--------|---------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|---------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 16275         |        | XA330     | 05                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 16113         |        | XA330     | 06                              |        | XA346     | 39  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 16280         |        | XA330     | 07                              |        | XA330     | 66  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 13332         |        | XA330     | 08                              |        | XA206     | 73  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    | C06     |
| 01203         |        | XA330     | 09                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 15953         |        | XA330     | 10                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 13427         |        | XA330     | 11                              |        | XA205     | 21  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 00521         |        | XA330     | 12                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 16500         |        | XA330     | 13                              |        | XA343     | 73  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 05010         |        | XA330     | 14                              |        | XA433     | 18  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 01204         |        | XA330     | 15                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 02508         |        | XA330     | 16                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 01205         |        | XA330     | 17                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 05036         |        | XA330     | 18                              |        | XA317     | 65  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 05057         |        | XA330     | 19                              |        | XA433     | 17  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 05590         |        | XA330     | 20                              |        | XA329     | 04  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 01206         |        | XA330     | 21                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 05645         |        | XA330     | 22                              |        | XA330     | 31  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 07900         |        | XA330     | 23                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 05043         |        | XA330     | 24                              |        | XA433     | 20  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 05612         |        | XA330     | 25                              |        | XA329     | 29  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 05437         |        | XA330     | 26                              |        | XA329     | 36  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 01207         |        | XA330     | 27                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 00522         |        | XA330     | 28                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 01208         |        | XA330     | 29                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 15931         |        | XA330     | 30                              |        | XA330     | 64  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 05646         |        | XA330     | 31                              |        | XA330     | 56  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 02509         |        | XA330     | 32                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 01209         |        | XA330     | 33                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 16215         |        | XA330     | 34                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 13878         |        | XA330     | 35                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 15845         |        | XA330     | 36                              |        | XA134     | 60  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 08877         |        | XA330     | 37                              |        | XA305     | 69  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 16158         |        | XA330     | 38                              |        | XA343     | 40  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 01210         |        | XA330     | 39                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 16282         |        | XA330     | 40                              |        | XA343     | 38  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 01211         |        | XA330     | 41                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 05584         |        | XA330     | 42                              |        | XA330     | 49  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 16278         |        | XA330     | 43                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 02510         |        | XA330     | 44                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 01212         |        | XA330     | 45                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 16493         |        | XA330     | 46                              |        | XA325     | 22  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 13446         |        | XA330     | 47                              |        | XA244     | 08  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 16253         |        | XA330     | 48                              |        | XA345     | 19  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 05585         |        | XA330     | 49                              |        | XA329     | 51  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 05439         |        | XA330     | 50                              |        | XA329     | 50  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 01213         |        | XA330     | 51                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 16391         |        | XA330     | 52                              |        | XA349     | 25  |             |      | 16B   | 9                |        |         |          |             |                  |       |                     |                    |                    |         |
| 01214         |        | XA330     | 53                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| 13449         |        | XA330     | 54                              |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |
| CONNECTOR     |        | XA330     | CONTINUED ON THE NEXT PAGE **** |        |           |     |             |      |       |                  |        |         |          |             |                  |       |                     |                    |                    |         |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA330  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 224

| RECORD NUMBER                                     | FROM   |           |     |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT ON CHIP TYPE | LOAD OR POWER PLANE | TEST POINT'S LAND OR | SIGNAL DESCRIPTION | ECO NO           |        |
|---|--------|-----------|-----|----|--------|-----------|-----|----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|---------------------|----------------------|--------------------|------------------|--------|
|   | PREFIX | CONNECTOR | PIN | IN | PREFIX | CONNECTOR | PIN | IN | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |                     |                      |                    |                  | INSUL  |
| 15722   | XA330  | 55        |     |    | XA406  | 41        |     |    | 16B         | 9    |       |       | TS00AA  | 05     | TI112A   | 01   | 1      | TS8              | E1                  |                      | 29B                |                  |        |
| 05647   | XA330  | 56        |     |    | XA329  | 52        |     |    | 16B         | 9    |       |       | SPI027  | 04     | TI1110   | 01   | 8      | TS8              | D1                  |                      | 26A                |                  |        |
| 01215   | XA330  | 57        |     |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | TS8              |                     |                      |                    |                  |        |
| 02511   | XA330  | 58        |     |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |        | TS8              |                     |                      |                    |                  |        |
| 13552   | XA330  | 59        |     |    | XA206  | 08        |     |    | 16B         | 9    |       |       | TI112A  | 01     | TI112A   | 00   | 1      | TS8              | E1                  |                      | 31B                | LATCH/RESET CONT |        |
| 13528   | XA330  | 60        |     |    | XA230  | 26        |     |    | 16B         | 9    |       |       | TI10BQ  | 04     | TI112A   | 01   | 2      | TS8              | E1                  |                      | 28A                |                  |        |
| 13559   | XA330  | 61        |     |    | XA147  | 59        |     |    | 16B         | 9    |       |       | TI121A  | 01     | TI112A   | 01   | 3      | TS8              | E1                  |                      | 32B                |                  |        |
| 16865   | XA330  | 62        |     |    | XA138  | 13        |     |    | 16B         | 9    |       |       | TWD1AA  | 02     | TI112A   | 01   | 4      | TS8              | E1                  |                      | 29A                |                  |        |
| 01216   | XA330  | 63        |     |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | TS8              |                     |                      |                    |                  |        |
| 15932   | XA330  | 64        |     |    | XA339  | 76        |     |    | 16B         | 9    |       |       | TS07BP  | 02     | TI112A   | 01   | 5      | TS8              | E1                  |                      | 30A                |                  |        |
| 01217   | XA330  | 65        |     |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | TS8              |                     |                      |                    |                  |        |
| 16281   | XA330  | 66        |     |    | XA330  | 40        |     |    | 16B         | 9    |       |       | TS20BP  | 03     | TI112A   | 01   | 6      | TS8              | E1                  |                      | 31A                |                  |        |
| 02512   | XA330  | 67        |     |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |        | TS8              |                     |                      |                    |                  |        |
| 16157   | XA330  | 68        |     |    | XA330  | 38        |     |    | 16B         | 9    |       |       | TS15BP  | 01     | TI112A   | 01   | 7      | TS8              | E1                  |                      | 32A                |                  |        |
| 01218   | XA330  | 69        |     |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | TS8              |                     |                      |                    |                  |        |
| 08832   | XA330  | 70        |     |    | XA344  | 71        |     |    | 16B         | 9    |       |       | TBD15A  | 02     | TI112A   | 01   | 8      | TS8              | E1                  |                      | 33A                |                  |        |
| 05686   | XA330  | 71        |     |    | XA433  | 03        |     |    | 16B         | 9    |       |       | SPI028  | 11     | TI211A   | 01   | 1      | TS8              | F1                  |                      | 36A                |                  |        |
| 05575   | XA330  | 72        |     |    | XA329  | 80        |     |    | 16B         | 9    |       |       | SPI025  | 03     | TI211A   | 01   | 2      | TS8              | F1                  |                      | 34A                |                  |        |
| 15922   | XA330  | 73        |     |    |        |           |     |    |             |      |       |       | TS06BQ  | 06     | TI211A   | 01   | 3      | TS8              | F1                  |                      | 36B                |                  |        |
| 13335   | XA330  | 74        |     |    | XA349  | 72        |     |    | 16B         | 9    |       |       | TINDBP  | 08     | TI211A   | 01   | 4      | TS8              | F1                  |                      | 35B                |                  |        |
| 14677   | XA330  | 75        |     |    | XA341  | 71        |     |    | 16B         | 9    |       |       | TPEM2A  | 02     | TI211A   | 01   | 5      | TS8              | F1                  |                      | 37B                |                  |        |
| 13596   | XA330  | 76        |     |    |        |           |     |    |             |      |       |       | TI211A  | 02     | TI211A   | 00   | 1      | TS8              | F1                  |                      | 37A                | STATE S6.NO INPU |        |
| 08748   | XA330  | 77        |     |    | XA333  | 40        |     |    | 16B         | 9    |       |       | TBC1BP  | 02     | TI211A   | 01   | 6      | TS8              | F1                  |                      | 38B                |                  |        |
| 09089   | XA330  | 78        |     |    | XA346  | 79        |     |    | 16B         | 9    |       |       | TBRRAO  | 02     | TI211A   | 01   | 7      | TS8              | F1                  |                      | 38A                |                  |        |
| 05651   | XA330  | 79        |     |    | XA334  | 71        |     |    | 16B         | 9    |       |       | SPIJ27  | 08     | TI211A   | 01   | 8      | TS8              | F1                  |                      | 39B                |                  |        |
| 01219   | XA330  | 80        |     |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | TS8              |                     |                      |                    |                  |        |
| 01220   | XA331  | 01        |     |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | RR1              |                     |                      |                    |                  |        |
| 20231   | XA331  | 02        |     |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |        | RR1              |                     |                      |                    |                  |        |
| 00051   | XA331  | 03        |     |    | XA337  | 03        |     |    | 16B         | 9    |       |       | +05RES1 | 275    |          |      |        | RR1              | AP                  |                      |                    | B04              |        |
| 00052   | XA331  | 04        |     |    | XA331  | 03        |     |    | 16B         | 9    |       |       | +05RES1 | 270    |          |      |        | RR1              | AP                  |                      |                    | B04              |        |
| 14316   | XA331  | 05        |     |    | XA433  | 27        |     |    | 16B         | 9    |       |       | YMRUMB4 | 32     |          |      |        | RR1              | A1                  |                      |                    | C09              |        |
| 07713   | XA331  | 06        |     |    | XA306  | 06        |     |    | 16B         | 9    |       |       | JDDI1A1 | 005    |          |      |        | RR1              | A2                  |                      |                    |                  |        |
| 07714   | XA331  | 07        |     |    |        |           |     |    |             |      |       |       | SPR     | 01     |          |      |        | RR1              | A3                  |                      |                    |                  |        |
| 07715   | XA331  | 08        |     |    | XA306  | 08        |     |    | 16B         | 9    |       |       | JDDI2A1 | 005    |          |      |        | RR1              | A4                  |                      |                    |                  |        |
| 07716   | XA331  | 09        |     |    | XA233  | 18        |     |    | 16B         | 9    |       |       | WRIOLA  | 005    |          |      |        | RR1              | A5                  |                      |                    |                  |        |
| 07717   | XA331  | 10        |     |    | XA233  | 25        |     |    | 16B         | 9    |       |       | WR2OLA  | 005    |          |      |        | RR1              | A6                  |                      |                    |                  |        |
| 01221   | XA331  | 11        |     |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | RR1              |                     |                      |                    |                  |        |
| 00523   | XA331  | 12        |     |    |        |           |     |    |             |      |       |       | +5V     | 01     |          |      |        | RR1              |                     |                      |                    |                  |        |
| 00248   | XA331  | 13        |     |    | XA421  | 06        |     |    | 16B         | 9    |       |       | +5AXIC  | 09     |          |      |        | RR1              | BP                  |                      |                    | B06              |        |
| 00247   | XA331  | 14        |     |    | XA331  | 13        |     |    | 16B         | 9    |       |       | +5AXIC  | 08     |          |      |        | RR1              | BP                  |                      |                    | B05              |        |
| 03864   | XA331  | 15        |     |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | RR1              |                     |                      |                    |                  |        |
| 03865   | XA331  | 16        |     |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |      |        | RR1              |                     |                      |                    |                  | KEYWAY |
| 03834   | XA331  | 17        |     |    |        |           |     |    |             |      |       |       | KDVC1B  | 05     |          |      |        | RR1              | B1                  |                      |                    |                  | C04    |
| 03840   | XA331  | 18        |     |    |        |           |     |    |             |      |       |       | KDVC2B  | 05     |          |      |        | RR1              | B2                  |                      |                    |                  |        |
| 03846   | XA331  | 19        |     |    |        |           |     |    |             |      |       |       | KDVC4B  | 05     |          |      |        | RR1              | B3                  |                      |                    |                  |        |
| 04033   | XA331  | 20        |     |    |        |           |     |    |             |      |       |       | KI0C1B  | 05     |          |      |        | RR1              | B4                  |                      |                    |                  |        |
| 00245   | XA331  | 21        |     |    | XA331  | 22        |     |    | 16B         | 9    |       |       | +5AXIC  | 06     |          |      |        | RR1              | CP                  |                      |                    | B05              |        |
| 00246   | XA331  | 22        |     |    | XA331  | 14        |     |    | 16B         | 9    |       |       | +5AXIC  | 07     |          |      |        | RR1              | CP                  |                      |                    | B05              |        |
| CONNECTOR (XA331) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |    |             |      |       |       |         |        |          |      |        |                  |                     |                      |                    |                  |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA331  
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| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT GP CHG TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------|--------|----------|------|--------|-----------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | INFC | PREFIX | CONNECTOR | PIN | INFC | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                 |       |                     |                    |                    |        |
| 07718   |        | XA331     | 23  |      |        | XA233     | 36  |      |             | 16B  | 9     |       | WR30LA  | 005    |          |      | RR1    | C1              |       |                     |                    |                    |        |
| 07719   |        | XA331     | 24  |      |        | XA201     | 25  |      |             | 16B  | 9     |       | WKBSOA  | 015    |          |      | RR1    | B5              |       |                     |                    |                    |        |
| 07720   |        | XA331     | 25  |      |        | XA443     | 64  |      |             | 16B  | 9     |       | WKBSOA  | 015    |          |      | RR1    | C2              |       |                     |                    |                    |        |
| 07721   |        | XA331     | 26  |      |        | XA201     | 39  |      |             | 16B  | 9     |       | WKB14A  | 025    |          |      | RP1    | B6              |       |                     |                    |                    |        |
| 03866   |        | XA331     | 27  |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      | RR1    |                 |       |                     | KEYWAY             | C04                |        |
| 03867   |        | XA331     | 28  |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      | RR1    |                 |       |                     | KEYWAY             | C04                |        |
| 07722   |        | XA331     | 29  |      |        | XA201     | 41  |      |             | 16B  | 9     |       | WKB15A  | 035    |          |      | RR1    | C3              |       |                     |                    |                    |        |
| 20222   |        | XA331     | 30  |      |        |           |     |      |             |      |       |       | ZDDDRB  | 02     |          |      | RR1    | C4              |       |                     |                    |                    |        |
| 01222   |        | XA331     | 31  |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      | RR1    |                 |       |                     |                    |                    |        |
| 20834   |        | XA331     | 32  |      |        |           |     |      |             |      |       |       | ZDDDRR  | 02     |          |      | RR1    |                 |       |                     |                    |                    |        |
| 21332   |        | XA331     | 32  |      |        |           |     |      |             |      |       |       | GND     |        |          |      | RR1    |                 |       |                     |                    | A01                |        |
| 00053   |        | XA331     | 33  |      |        | XA331     | 04  |      |             | 16B  | 9     |       | +05RES1 | 265    |          |      | RP1    | DP              |       |                     |                    | B04                |        |
| 00054   |        | XA331     | 34  |      |        | XA331     | 33  |      |             | 16B  | 9     |       | +05RES1 | 260    |          |      | RR1    | DP              |       |                     |                    | B04                |        |
| 07723   |        | XA331     | 35  |      |        |           |     |      |             |      |       |       | SPP     | 01     |          |      | RR1    | D1              |       |                     |                    | B05                |        |
| 07724   |        | XA331     | 36  |      |        | XA106     | 62  |      |             | 16B  | 9     |       | TMTSBB  | 01     |          |      | RR1    | C6              |       |                     |                    | A01                |        |
| 07725   |        | XA331     | 37  |      |        | XA415     | 74  |      |             | 16B  | 9     |       | WKB16A  | 015    |          |      | RR1    | D2              |       |                     |                    |                    |        |
| 07726   |        | XA331     | 38  |      |        | XA201     | 45  |      |             | 16B  | 9     |       | WKB17A  | 045    |          |      | RR1    | C5              |       |                     |                    |                    |        |
| 07727   |        | XA331     | 39  |      |        |           |     |      |             |      |       |       | SPP     | 01     |          |      | RR1    | D3              |       |                     |                    |                    |        |
| 07728   |        | XA331     | 40  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | D4              |       |                     |                    |                    |        |
| 07729   |        | XA331     | 41  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | E1              |       |                     |                    |                    |        |
| 07730   |        | XA331     | 42  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | D5              |       |                     |                    |                    |        |
| 01223   |        | XA331     | 43  |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      | RR1    |                 |       |                     |                    |                    |        |
| 21333   |        | XA331     | 44  |      |        |           |     |      |             |      |       |       | GND     |        |          |      | RR1    |                 |       |                     |                    | A01                |        |
| 07731   |        | XA331     | 45  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | E2              |       |                     |                    |                    |        |
| 07732   |        | XA331     | 46  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | D6              |       |                     |                    |                    |        |
| 07733   |        | XA331     | 47  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | E3              |       |                     |                    |                    |        |
| 07734   |        | XA331     | 48  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | E4              |       |                     |                    |                    |        |
| 00055   |        | XA331     | 49  |      |        | XA331     | 34  |      |             | 16B  | 9     |       | +05RES1 | 255    |          |      | RR1    | EP              |       |                     |                    | B04                |        |
| 00056   |        | XA331     | 50  |      |        | XA331     | 49  |      |             | 16B  | 9     |       | +05RES1 | 250    |          |      | RP1    | EP              |       |                     |                    | B04                |        |
| 07735   |        | XA331     | 51  |      |        |           |     |      |             |      |       |       | SPP     | 01     |          |      | RR1    | F1              |       |                     |                    |                    |        |
| 03789   |        | XA331     | 52  |      |        | XA446     | 13  |      |             | 16B  | 9     |       | JMTSBB4 | 01     |          |      | RP1    | E5              |       |                     |                    |                    |        |
| 07736   |        | XA331     | 53  |      |        |           |     |      |             |      |       |       | SPP     | 01     |          |      | RR1    | F2              |       |                     |                    |                    |        |
| 07737   |        | XA331     | 54  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | E6              |       |                     |                    |                    |        |
| 14344   |        | XA331     | 55  |      |        | XA107     | 11  |      |             | 16B  | 9     |       | TMTCAA  | 01     |          |      | RR1    | F3              |       |                     |                    |                    |        |
| 07738   |        | XA331     | 56  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | F4              |       |                     |                    |                    |        |
| 01224   |        | XA331     | 57  |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      | RR1    |                 |       |                     |                    |                    |        |
| 02513   |        | XA331     | 58  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      | RR1    |                 |       |                     |                    |                    |        |
| 00057   |        | XA331     | 59  |      |        | XA331     | 50  |      |             | 16B  | 9     |       | +05RES1 | 245    |          |      | RR1    | FP              |       |                     |                    | B04                |        |
| 00058   |        | XA331     | 60  |      |        | XA331     | 59  |      |             | 16B  | 9     |       | +05RES1 | 240    |          |      | RR1    | FP              |       |                     |                    | B04                |        |
| 04035   |        | XA331     | 61  |      |        | XA119     | 23  |      |             | 16B  | 9     |       | K10C2B  | 01     |          |      | RR1    | G1              |       |                     |                    |                    |        |
| 07739   |        | XA331     | 62  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | F5              |       |                     |                    |                    |        |
| 04045   |        | XA331     | 63  |      |        |           |     |      |             |      |       |       | K10C4B  | 05     |          |      | RR1    | G2              |       |                     |                    |                    |        |
| 07740   |        | XA331     | 64  |      |        |           |     |      |             |      |       |       | SPR     | 01     |          |      | RR1    | F6              |       |                     |                    |                    |        |
| 04047   |        | XA331     | 65  |      |        | XA119     | 60  |      |             | 16B  | 9     |       | K10C8B  | 01     |          |      | RR1    | G3              |       |                     |                    |                    |        |
| 04083   |        | XA331     | 66  |      |        |           |     |      |             |      |       |       | KME1B   | 05     |          |      | RR1    | G4              |       |                     |                    |                    |        |
| 02514   |        | XA331     | 67  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      | RR1    |                 |       |                     |                    |                    |        |
| 01225   |        | XA331     | 68  |      |        |           |     |      |             |      |       |       | DNW     | 01     |          |      | RR1    |                 |       |                     |                    |                    |        |
| 00059   |        | XA331     | 69  |      |        | XA331     | 60  |      |             | 16B  | 9     |       | +05RES1 | 235    |          |      | RR1    | GP              |       |                     |                    | B04                |        |
| 00060   |        | XA331     | 70  |      |        | XA331     | 69  |      |             | 16B  | 9     |       | +05RES1 | 230    |          |      | RR1    | GP              |       |                     |                    | B04                |        |
| 14185   |        | XA331     | 71  |      |        |           |     |      |             |      |       |       | SPP     | 01     |          |      | RR1    | H1              |       |                     |                    | B05                |        |
| CONNECTOR (XA331) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |         |        |          |      |        |                 |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA331  
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| RECORD NUMBER | FROM   |           |                                 |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SQ NO | EQUATION | TERM | FACTORY | CMT | OR | GROUP | LOAD | CR  | POINTS | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|-------|----------|------|---------|-----|----|-------|------|-----|--------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | IN FC | PREFIX | CONNECTOR | PIN | IN FC | MULTI GROUP | CODE | COLOR | IDENT |         |       |          |      |         |     |    |       |      |     |        |                    |        |
| 04089         |        | XA331     | 72                              |       |        |           |     |       |             |      |       |       | KMEA2B  | 05    |          |      |         | RR1 | G5 |       |      |     |        |                    |        |
| 07741         |        | XA331     | 73                              |       |        |           |     |       |             |      |       |       | SPR     | 01    |          |      |         | RR1 | H2 |       |      |     |        |                    |        |
| 04095         |        | XA331     | 74                              |       |        |           |     |       |             |      |       |       | KMEA4B  | 05    |          |      |         | RR1 | G6 |       |      |     |        |                    |        |
| 07742         |        | XA331     | 75                              |       |        |           |     |       |             |      |       |       | SPR     | 01    |          |      |         | RR1 | H3 |       |      |     |        |                    |        |
| 07743         |        | XA331     | 76                              |       |        |           |     |       |             |      |       |       | SPR     | 01    |          |      |         | RR1 | H4 |       |      |     |        |                    |        |
| 07744         |        | XA331     | 77                              |       |        |           |     |       |             |      |       |       | SPR     | 01    |          |      |         | RR1 | H5 |       |      |     |        |                    |        |
| 07745         |        | XA331     | 78                              |       |        |           |     |       |             |      |       |       | SPR     | 01    |          |      |         | RR1 | H6 |       |      |     |        |                    |        |
| 00061         |        | XA331     | 79                              |       | XA331  | 70        |     |       |             | 16B  | 9     |       | +05RES1 | 225   |          |      |         | RR1 | HP |       |      |     |        | 804                |        |
| 00062         |        | XA331     | 80                              |       | XA331  | 79        |     |       |             | 16B  | 9     |       | +05RES1 | 220   |          |      |         | RR1 | HP |       |      |     |        | 804                |        |
| 13962         |        | XA332     | 01                              |       |        |           |     |       |             |      |       |       | TK110A  | 02    | TK110A   | 03   | 1       | TQ2 | A2 |       |      | 02B |        | S21.BASE MEM PE    |        |
| 02515         |        | XA332     | 02                              |       |        |           |     |       |             |      |       |       | GND     | 01    |          |      |         | TQ2 |    |       |      |     |        |                    |        |
| 14651         |        | XA332     | 03                              |       | XA217  | 74        |     |       |             | 16B  | 9     |       | TPE0MQ  | 01    | TK120A   | 01   | 1       | TQ2 | A3 |       |      | 02A |        |                    |        |
| 16318         |        | XA332     | 04                              |       | XA332  | 08        |     |       |             | 16B  | 9     |       | TS2110  | 02    | TK110A   | 01   | 1       | TQ2 | A2 |       |      | 04A |        |                    | C10    |
| 14697         |        | XA332     | 05                              |       |        |           |     |       |             |      |       |       | TPETK0  | 02    | TK110A   | 01   | 2       | TQ2 | A2 |       |      | 03B |        |                    |        |
| 13959         |        | XA332     | 06                              |       | XA306  | 21        |     |       |             | 16B  | 9     |       | TK103A  | 01    | TK100A   | 03   | 1       | TQ2 | A1 |       |      | 05A |        | S21.ACC VIL        |        |
| 16320         |        | XA332     | 07                              |       | XA332  | 13        |     |       |             | 16B  | 9     |       | TS2110  | 04    | TK120A   | 01   | 2       | TQ2 | A3 |       |      | 03A |        |                    | C10    |
| 16319         |        | XA332     | 08                              |       | XA332  | 07        |     |       |             | 16B  | 9     |       | TS2110  | 03    | TK100A   | 01   | 1       | TQ2 | A1 |       |      | 06A |        |                    | C10    |
| 13963         |        | XA332     | 09                              |       | XA306  | 29        |     |       |             | 16B  | 9     |       | TK120A  | 01    | TK120A   | 03   | 1       | TQ2 | A3 |       |      | 04B |        | S21.DATA MEM PE    |        |
| 08421         |        | XA332     | 10                              |       |        |           |     |       |             |      |       |       | TAVERBQ | 03    | TK100A   | 01   | 2       | TQ2 | A1 |       |      | 07A |        |                    |        |
| 14392         |        | XA332     | 11                              |       | XA233  | 49        |     |       |             | 16B  | 9     |       | TMT0BQ  | 01    | TK130A   | 01   | 1       | TQ2 | A4 |       |      | 05E |        |                    |        |
| 00524         |        | XA332     | 12                              |       |        |           |     |       |             |      |       |       | +5V     | 01    |          |      |         | TQ2 |    |       |      |     |        |                    |        |
| 16321         |        | XA332     | 13                              |       |        |           |     |       |             |      |       |       | TS2110  | 05    | TK130A   | 01   | 2       | TQ2 | A4 |       |      | 06B |        |                    | C10    |
| 15102         |        | XA332     | 14                              |       |        |           |     |       |             |      |       |       | TQNS1A  | 02    | TQNS1A   | 00   | 1       | TQ2 | B2 |       |      | 09A |        | NPL Q SEL BIT 21   |        |
| 13966         |        | XA332     | 15                              |       |        |           |     |       |             |      |       |       | TK130A  | 02    | TK130A   | 03   | 1       | TQ2 | A4 |       |      | 07B |        | S21.MEM TIME OUT   | C10    |
| 02516         |        | XA332     | 16                              |       |        |           |     |       |             |      |       |       | GND     | 01    |          |      |         | TQ2 |    |       |      |     | 01B    |                    |        |
| 10090         |        | XA332     | 17                              |       | XA329  | 19        |     |       |             | 16B  | 9     |       | TC03BQ  | 03    | TU033A   | 01   | 1       | TQ2 | B3 |       |      | 08B |        |                    |        |
| 10174         |        | XA332     | 18                              |       |        |           |     |       |             |      |       |       | TC08CA  | 07    | TQNS1A   | 01   | 1       | TQ2 | B2 |       |      | 10A |        |                    |        |
| 10108         |        | XA332     | 19                              |       |        |           |     |       |             |      |       |       | TC04BQ  | 07    | TU033A   | 01   | 2       | TQ2 | B3 |       |      | 09B |        |                    |        |
| 10089         |        | XA332     | 20                              |       | XA332  | 17        |     |       |             | 16B  | 9     |       | TC03BQ  | 02    | TQNS1A   | 01   | 2       | TQ2 | B2 |       |      | 11A |        |                    |        |
| 16714         |        | XA332     | 21                              |       | XA328  | 36        |     |       |             | 16B  | 9     |       | TU033A  | 01    | TU033A   | 03   | 1       | TQ2 | B3 |       |      | 10B |        | BL UPDATE TC03.    |        |
| 15099         |        | XA332     | 22                              |       | XA326  | 29        |     |       |             | 16B  | 9     |       | TQNS3A  | 01    | TQNS0A   | 00   | 1       | TQ2 | B1 |       |      | 12A |        | NPL Q SEL BIT 20   |        |
| 10096         |        | XA332     | 23                              |       | XA329  | 35        |     |       |             | 16B  | 9     |       | TC04BP  | 03    | TU034A   | 01   | 1       | TQ2 | B4 |       |      | 11B |        |                    |        |
| 10173         |        | XA332     | 24                              |       | XA332  | 18        |     |       |             | 16B  | 9     |       | TC08CA  | 06    | TQNS0A   | 01   | 1       | TQ2 | B1 |       |      | 13A |        |                    |        |
| 10083         |        | XA332     | 25                              |       | XA329  | 21        |     |       |             | 16B  | 9     |       | TC03BP  | 01    | TU034A   | 01   | 2       | TQ2 | B4 |       |      | 12B |        |                    |        |
| 10078         |        | XA332     | 26                              |       | XA329  | 25        |     |       |             | 16B  | 9     |       | TC02BQ  | 02    | TQNS0A   | 01   | 2       | TQ2 | B1 |       |      | 14A |        |                    |        |
| 16717         |        | XA332     | 27                              |       |        |           |     |       |             |      |       |       | TU034A  | 02    | TU034A   | 03   | 1       | TQ2 | B4 |       |      | 13B |        | BL UPDATE TC03*    |        |
| 00525         |        | XA332     | 28                              |       |        |           |     |       |             |      |       |       | +5V     | 01    |          |      |         | TQ2 |    |       |      |     |        |                    |        |
| 10111         |        | XA332     | 29                              |       | XA329  | 33        |     |       |             | 16B  | 9     |       | TC05BP  | 03    | TU0520   | 01   | 1       | TQ2 | C3 |       |      | 14B |        |                    |        |
| 15106         |        | XA332     | 30                              |       |        |           |     |       |             |      |       |       | TQNS3A  | 02    | TQNS3A   | 03   | 1       | TQ2 | C2 |       |      | 15A |        | NPL Q SEL BIT 23   |        |
| 09030         |        | XA332     | 31                              |       | XA327  | 39        |     |       |             | 16B  | 9     |       | TBL23A  | 01    | TU0520   | 01   | 2       | TQ2 | C3 |       |      | 15B |        |                    |        |
| 02517         |        | XA332     | 32                              |       |        |           |     |       |             |      |       |       | GND     | 01    |          |      |         | TQ2 |    |       |      |     | 20B    |                    |        |
| 16720         |        | XA332     | 33                              |       | XA327  | 26        |     |       |             | 16B  | 9     |       | TU0520  | 01    | TU0520   | 00   | 1       | TQ2 | C3 |       |      | 16B |        | BL UPDATE TC07*.   |        |
| 10172         |        | XA332     | 34                              |       | XA332  | 24        |     |       |             | 16B  | 9     |       | TC08CA  | 05    | TQNS3A   | 01   | 1       | TQ2 | C2 |       |      | 16A |        |                    |        |
| 10128         |        | XA332     | 35                              |       |        |           |     |       |             |      |       |       | TC06BP  | 07    | TPN01A   | 01   | 1       | TQ2 | C4 |       |      | 17B |        |                    |        |
| 10118         |        | XA332     | 36                              |       | XA329  | 31        |     |       |             | 16B  | 9     |       | TC05BQ  | 04    | TQNS3A   | 01   | 2       | TQ2 | C2 |       |      | 17A |        |                    |        |
| 10136         |        | XA332     | 37                              |       | XA332  | 48        |     |       |             | 16B  | 9     |       | TC07BP  | 01    | TPN01A   | 01   | 2       | TQ2 | C4 |       |      | 18B |        |                    |        |
| 15103         |        | XA332     | 38                              |       | XA326  | 70        |     |       |             | 16B  | 9     |       | TQNS2A  | 01    | TQNS2A   | 00   | 1       | TQ2 | C1 |       |      | 18A |        | NPL Q SEL BIT 22   |        |
| 14754         |        | XA332     | 39                              |       | XA135  | 15        |     |       |             | 16B  | 9     |       | TPN01A  | 01    | TPN01A   | 00   | 1       | TQ2 | C4 |       |      | 19B |        | TC06*.07*-A        |        |
| CONNECTOR     |        | XA332     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |       |       |         |       |          |      |         |     |    |       |      |     |        |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA332  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 227

| RECORD NUMBER                                   | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CMT OR CHIP TYPE | GROUP | LOAD OF POWER PLANE | TEST POINTS AND DR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | NAME | PREFIX | CONNECTOR | PIN | NAME | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10107   |        | XA332     | 40  |      | XA332  | 19        |     |      | 16B         | 9    |       | TC04BQ | 06     | TQNS2A   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 10130   |        | XA332     | 41  |      | XA332  | 50        |     |      | 16B         | 9    |       | TC06BQ | 02     | TPNO4A   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 10171   |        | XA332     | 42  |      | XA332  | 34        |     |      | 16B         | 9    |       | TC08CA | 04     | TQNS2A   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 10145   |        | XA332     | 43  |      | XA329  | 43        |     |      | 16B         | 9    |       | TC07BQ | 02     | TPNO4A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02518   |        | XA332     | 44  |      |        |           |     |      |             |      |       | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 14775   |        | XA332     | 45  |      | XA135  | 20        |     |      | 16B         | 9    |       | TPNO4A | 01     | TPNO4A   | 00   | 1      | TQ2              | D3    |                     | 24B                | TC06.07-A          |        |
| 14768   |        | XA332     | 46  |      | XA135  | 23        |     |      | 16B         | 9    |       | TPNO3A | 01     | TPNO3A   | 00   | 1      | TQ2              | D2    |                     | 21A                | TC06.07*-A         |        |
| 16104   |        | XA332     | 47  |      | XA333  | 48        |     |      | 16B         | 9    |       | TS13C0 | 05     | TS13WA   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 10137   |        | XA332     | 48  |      | XA329  | 45        |     |      | 16B         | 9    |       | TC07BP | 02     | TPNO3A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 10224   |        | XA332     | 49  |      | XA333  | 55        |     |      | 16B         | 9    |       | TC11CA | 03     | TS13WA   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 10131   |        | XA332     | 50  |      | XA329  | 49        |     |      | 16B         | 9    |       | TC06BQ | 03     | TPNO3A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 16115   |        | XA332     | 51  |      | XA350  | 34        |     |      | 16B         | 9    |       | TS13WA | 01     | TS13WA   | 00   | 1      | TQ2              | D4    |                     | 27B                | S13.WORD MODE      |        |
| 14761   |        | XA332     | 52  |      | XA135  | 22        |     |      | 16B         | 9    |       | TPNO2A | 01     | TPNO2A   | 00   | 1      | TQ2              | D1    |                     | 24A                | TC06*.07-A         |        |
| 04248   |        | XA332     | 53  |      | XA423  | 54        |     |      | 16B         | 9    |       | KMR19S | 04     | TK231A   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 10144   |        | XA332     | 54  |      | XA332  | 43        |     |      | 16B         | 9    |       | TC07BQ | 01     | TPNO2A   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 13853   |        | XA332     | 55  |      | XA205  | 54        |     |      | 16B         | 9    |       | TKMBC0 | 04     | TK231A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 10127   |        | XA332     | 56  |      | XA332  | 35        |     |      | 16B         | 9    |       | TC06BP | 06     | TPNO2A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 13983   |        | XA332     | 57  |      | XA308  | 77        |     |      | 16B         | 9    |       | TK231A | 01     | TK231A   | 00   | 1      | TQ2              | E3    |                     | 30B                | TC TO KM MEM BAN   |        |
| 02519   |        | XA332     | 58  |      |        |           |     |      |             |      |       | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 13852   |        | XA332     | 59  |      | XA332  | 55        |     |      | 16B         | 9    |       | TKMBC0 | 03     | TK241A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 13982   |        | XA332     | 60  |      |        |           |     |      |             |      |       | TK221A | 02     | TK221A   | 00   | 1      | TQ2              | E2    |                     | 28A                | TC TO KM MEM BAN   |        |
| 04256   |        | XA332     | 61  |      | XA423  | 48        |     |      | 16B         | 9    |       | KMR20S | 04     | TK241A   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 04240   |        | XA332     | 62  |      | XA423  | 35        |     |      | 16B         | 9    |       | KMR18S | 04     | TK221A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 13986   |        | XA332     | 63  |      |        |           |     |      |             |      |       | TK241A | 02     | TK241A   | 00   | 1      | TQ2              | E4    |                     | 33B                | TC TO KM MEM BAN   |        |
| 13851   |        | XA332     | 64  |      | XA332  | 59        |     |      | 16B         | 9    |       | TKMBC0 | 02     | TK221A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 05573   |        | XA332     | 65  |      |        |           |     |      |             |      |       | TD08BP | 04     | TC0810   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 13979   |        | XA332     | 66  |      | XA308  | 61        |     |      | 16B         | 9    |       | TK211A | 01     | TK211A   | 00   | 1      | TQ2              | E1    |                     | 31A                | TC TO KM MEM BAN   |        |
| 02520   |        | XA332     | 67  |      |        |           |     |      |             |      |       | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 04232   |        | XA332     | 68  |      | XA423  | 29        |     |      | 16B         | 9    |       | KMR17S | 04     | TK211A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 07901   |        | XA332     | 69  |      | XA329  | 68        |     |      | 16B         | 9    |       | TC0810 | 01     | TC0810   | 00   | 1      | TQ2              | F3    |                     | 35A                |                    |        |
| 13850   |        | XA332     | 70  |      | XA332  | 64        |     |      | 16B         | 9    |       | TKMBC0 | 01     | TK211A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 10563   |        | XA332     | 71  |      |        |           |     |      |             |      |       | TDACA0 | 03     | TDAXBA   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 10582   |        | XA332     | 72  |      | XA334  | 56        |     |      | 16B         | 9    |       | TDAXBA | 01     | TDAXBA   | 00   | 1      | TQ2              | F2    |                     | 34A                | XFER CONTROL DAT   |        |
| 14456   |        | XA332     | 73  |      | XA350  | 29        |     |      | 16B         | 9    |       | TMO1BQ | 01     | TDAXBA   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 05652   |        | XA332     | 74  |      | XA334  | 62        |     |      | 16B         | 9    |       | TC013A | 01     | TC0810   | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 09395   |        | XA332     | 75  |      | XA220  | 75        |     |      | 16B         | 9    |       | TCAC60 | 01     | TCAC60   | 00   | 1      | TQ2              | F1    |                     | 37B                | TC XFER CONT FOR   |        |
| 10228   |        | XA332     | 76  |      | XA324  | 71        |     |      | 16B         | 9    |       | TC11CA | 07     | TIWRDA   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 09405   |        | XA332     | 77  |      |        |           |     |      |             |      |       | TCAC8A | 02     | TCAC60   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 08811   |        | XA332     | 78  |      |        |           |     |      |             |      |       | TBC4BQ | 05     | TIWRDA   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 09402   |        | XA332     | 79  |      | XA323  | 35        |     |      | 16B         | 9    |       | TCAC7A | 01     | TCAC60   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 13491   |        | XA332     | 80  |      | XA304  | 13        |     |      | 16B         | 9    |       | TIWRDA | 01     | TIWRDA   | 00   | 1      | TQ2              | F4    |                     | 39A                | INPUT WORD REC'D   |        |
| 12845   |        | XA333     | 01  |      | XA238  | 21        |     |      | 16B         | 9    |       | TE27BP | 02     | TCBS1A   | 01   | 1      | TS8              | A1    |                     | 02B                |                    |        |
| 02521   |        | XA333     | 02  |      |        |           |     |      |             |      |       | GND    | 01     |          |      |        | TS8              |       |                     | 01A                |                    |        |
| 01226   |        | XA333     | 03  |      |        |           |     |      |             |      |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 12800   |        | XA333     | 04  |      | XA238  | 11        |     |      | 16B         | 9    |       | TE24BP | 02     | TCBS1A   | 01   | 2      | TS8              | A1    |                     | 04A                |                    |        |
| 12907   |        | XA333     | 05  |      |        |           |     |      |             |      |       | TE31BQ | 04     | TCBS1A   | 01   | 3      | TS8              | A1    |                     | 03B                |                    |        |
| 12814   |        | XA333     | 06  |      | XA342  | 04        |     |      | 16B         | 9    |       | TE25BP | 01     | TCBS1A   | 01   | 4      | TS8              | A1    |                     | 05A                |                    |        |
| 12835   |        | XA333     | 07  |      |        |           |     |      |             |      |       | TE26BQ | 04     | TCBS1A   | 01   | 5      | TS8              | A1    |                     | 03A                |                    |        |
| CONNECTOR XA333 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA333  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 228

| RECORD NUMBER                                   | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       | SIGNAL | SEQ NO | EQUATION | J POINT | FACTORY | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | TCO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|--------|--------|----------|---------|---------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | INLET | PREFIX | CONNECTOR | PIN | INLET | MULTI GROUP | CODE | COLOR |        |        |          |         |         |                  |       |                     |                    |                    |        |
| 12893   |        | XA333     | 08  |       |        |           |     |       |             |      |       | TE30BQ | 04     | TCBS1A   | 01      | 6       | TS8              | A1    |                     | 06A                |                    |        |
| 01227   |        | XA333     | 09  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 12879   |        | XA333     | 10  |       |        |           |     |       |             |      |       | TE29BQ | 04     | TCBS1A   | C1      | 7       | TS8              | A1    |                     | 07A                |                    |        |
| 09517   |        | XA333     | 11  |       | XA342  | 21        |     |       |             | 16B  | 9     | TCBS1A | 01     | TCBS1A   | 00      | 1       | TS8              | A1    |                     | 05B                | BOOTSTRAP BYTE 1   |        |
| 00526   |        | XA333     | 12  |       |        |           |     |       |             |      |       | +5V    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 12865   |        | XA333     | 13  |       |        |           |     |       |             |      |       | TE28BQ | 04     | TCBS1A   | 01      | 8       | TS8              | AL    |                     | 06B                |                    |        |
| 12850   |        | XA333     | 14  |       |        |           |     |       |             |      |       | TE27BQ | 04     | TCBS2A   | 01      | 1       | TS8              | B1    |                     | 09A                |                    |        |
| 01228   |        | XA333     | 15  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 02522   |        | XA333     | 16  |       |        |           |     |       |             |      |       | GND    | 01     |          |         |         | TS8              |       |                     | 21B                |                    |        |
| 01229   |        | XA333     | 17  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 12888   |        | XA333     | 18  |       | XA238  | 47        |     |       |             | 16B  | 9     | TE30BP | 02     | TCBS2A   | 01      | 2       | TS8              | B1    |                     | 10A                |                    |        |
| 12901   |        | XA333     | 19  |       | XA342  | 17        |     |       |             | 16B  | 9     | TE31BP | 01     | TCBS2A   | 01      | 3       | TS8              | B1    |                     | 09B                |                    |        |
| 12859   |        | XA333     | 20  |       | XA342  | 15        |     |       |             | 16B  | 9     | TE28BP | 01     | TCBS2A   | 01      | 4       | TS8              | B1    |                     | 11A                |                    |        |
| 01230   |        | XA333     | 21  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 12829   |        | XA333     | 22  |       | XA342  | 05        |     |       |             | 16B  | 9     | TE26BP | 01     | TCBS2A   | 01      | 5       | TS8              | B1    |                     | 12A                |                    |        |
| 09521   |        | XA333     | 23  |       | XA342  | 23        |     |       |             | 16B  | 9     | TCBS2A | 01     | TCBS2A   | 00      | 1       | TS8              | B1    |                     | 11B                | BOOTSTRAP BYTE 2   |        |
| 12873   |        | XA333     | 24  |       | XA342  | 22        |     |       |             | 16B  | 9     | TE29BP | 01     | TCBS2A   | 01      | 6       | TS8              | B1    |                     | 13A                |                    |        |
| 12820   |        | XA333     | 25  |       |        |           |     |       |             |      |       | TE25BQ | 04     | TCBS2A   | 01      | 7       | TS8              | B1    |                     | 12B                |                    |        |
| 12805   |        | XA333     | 26  |       |        |           |     |       |             |      |       | TE24BQ | 04     | TCBS2A   | 01      | 8       | TS8              | B1    |                     | 14A                |                    |        |
| 01231   |        | XA333     | 27  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 00527   |        | XA333     | 28  |       |        |           |     |       |             |      |       | +5V    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 01232   |        | XA333     | 29  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 14676   |        | XA333     | 30  |       | XA330  | 75        |     |       |             | 16B  | 9     | TPM2A  | 01     | TS072A   | 01      | 1       | TS8              | C1    |                     | 15A                |                    |        |
| 09088   |        | XA333     | 31  |       | XA330  | 78        |     |       |             | 16B  | 9     | TBRR4Q | 01     | TS072A   | 01      | 2       | TS8              | C1    |                     | 15B                |                    |        |
| 02923   |        | XA333     | 32  |       |        |           |     |       |             |      |       | GND    | 01     |          |         |         | TS8              |       |                     | 27A                |                    |        |
| 01233   |        | XA333     | 33  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 15921   |        | XA333     | 34  |       | XA330  | 73        |     |       |             | 16B  | 9     | TS06BQ | 05     | TS072A   | 01      | 3       | TS8              | C1    |                     | 16A                |                    |        |
| 15957   |        | XA333     | 35  |       |        |           |     |       |             |      |       | TS072A | 04     | TS072A   | 00      | 1       | TS8              | C1    |                     | 17B                | OUTPUT, NO ERROR   |        |
| 13352   |        | XA333     | 36  |       | XA330  | 66        |     |       |             | 16B  | 9     | TINDCA | 04     | TS072A   | 01      | 4       | TS8              | C1    |                     | 17A                |                    |        |
| 05583   |        | XA333     | 37  |       | XA330  | 42        |     |       |             | 16B  | 9     | SPI025 | 11     | TS072A   | 01      | 5       | TS8              | C1    |                     | 18B                |                    |        |
| 09677   |        | XA333     | 38  |       | XA250  | 78        |     |       |             | 16B  | 9     | SPI028 | 02     | TS072A   | 01      | 6       | TS8              | C1    |                     | 18A                |                    |        |
| 01234   |        | XA333     | 39  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 08749   |        | XA333     | 40  |       | XA139  | 62        |     |       |             | 16B  | 9     | TBCLBP | 03     | TS072A   | 01      | 7       | TS8              | C1    |                     | 19A                |                    |        |
| 01235   |        | XA333     | 41  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 05661   |        | XA333     | 42  |       | XA334  | 36        |     |       |             | 16B  | 9     | SPI027 | 18     | TS072A   | 01      | 8       | TS8              | C1    |                     | 20A                |                    |        |
| 09171   |        | XA333     | 43  |       | XA333  | 62        |     |       |             | 16B  | 9     | TB5T1P | 08     | TS15EA   | 01      | 1       | TS8              | D1    |                     | 23B                |                    |        |
| 02524   |        | XA333     | 44  |       |        |           |     |       |             |      |       | GND    | 01     |          |         |         | TS8              |       |                     | 43A                |                    |        |
| 01236   |        | XA333     | 45  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 13333   |        | XA333     | 46  |       | XA333  | 79        |     |       |             | 16B  | 9     | YINDBP | 06     | TS15EA   | 01      | 2       | TS8              | D1    |                     | 21A                |                    |        |
| 16168   |        | XA333     | 47  |       | XA343  | 25        |     |       |             | 16B  | 9     | TS15EA | 01     | TS15EA   | 00      | 1       | TS8              | D1    |                     | 25B                | IF I/O PE GO TO    |        |
| 16105   |        | XA333     | 48  |       | XA333  | 68        |     |       |             | 16B  | 9     | TS13C0 | 06     | TS15EA   | 01      | 3       | TS8              | D1    |                     | 22A                |                    |        |
| 05582   |        | XA333     | 49  |       | XA333  | 37        |     |       |             | 16B  | 9     | SPI025 | 10     | TS15EA   | 01      | 4       | TS8              | D1    |                     | 26B                |                    |        |
| 14374   |        | XA333     | 50  |       | XA143  | 61        |     |       |             | 16B  | 9     | TM06BQ | 04     | TS15EA   | 01      | 5       | TS8              | D1    |                     | 23A                |                    |        |
| 01237   |        | XA333     | 51  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 13419   |        | XA333     | 52  |       | XA351  | 65        |     |       |             | 16B  | 9     | TIPEBQ | 06     | TS15EA   | 01      | 6       | TS8              | D1    |                     | 24A                |                    |        |
| 01238   |        | XA333     | 53  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| 05655   |        | XA333     | 54  |       | XA335  | 56        |     |       |             | 16B  | 9     | SPI027 | 12     | TS15EA   | 01      | 7       | TS8              | D1    |                     | 25A                |                    |        |
| 10225   |        | XA333     | 55  |       | XA333  | 56        |     |       |             | 16B  | 9     | TC11CA | 04     | TS074A   | 01      | 1       | TS8              | E1    |                     | 29B                |                    |        |
| 10226   |        | XA333     | 56  |       | XA333  | 78        |     |       |             | 16B  | 9     | TC11CA | 05     | TS15EA   | 01      | 8       | TS8              | D1    |                     | 26A                |                    |        |
| 01239   |        | XA333     | 57  |       |        |           |     |       |             |      |       | DNW    | 01     |          |         |         | TS8              |       |                     |                    |                    |        |
| CONNECTOR XA333 CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |        |        |          |         |         |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA333  
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| RECORD NUMBER                                   | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD GP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |             |                  |       |                     |                    |                    |        |
| 02525   |        | XA333     | 58  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 15967   |        | XA333     | 59  |      | XA344  | 77        |     |      | 16B         | 9    |       |       | TS074A        | 01     | TS074A | 01       | 1           | TS8              | E1    |                     | 31B                | BL=1 NO PE WORD    |        |
| 13523   |        | XA333     | 60  |      | XA333  | 75        |     |      | 16B         | 9    |       |       | TI10BP        | 04     | TS074A | 01       | 2           | TS8              | E1    |                     | 29A                |                    |        |
| 14573   |        | XA333     | 61  |      | XA333  | 50        |     |      | 16B         | 9    |       |       | T406BQ        | 03     | TS074A | 01       | 3           | TS8              | E1    |                     | 32B                |                    |        |
| 09172   |        | XA333     | 62  |      |        |           |     |      |             |      |       |       | TBSTIP        | 09     | TS074A | 01       | 4           | TS8              | E1    |                     | 29A                |                    |        |
| 01240   |        | XA333     | 63  |      |        |           |     |      |             |      |       |       | DNW           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 09017   |        | XA333     | 64  |      | XA325  | 20        |     |      | 16B         | 9    |       |       | TBLZAO        | 10     | TS074A | 01       | 5           | TS8              | E1    |                     | 30A                |                    |        |
| 01241   |        | XA333     | 65  |      |        |           |     |      |             |      |       |       | DNW           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 13353   |        | XA333     | 66  |      | XA319  | 77        |     |      | 16B         | 9    |       |       | TINDCA        | 05     | TS074A | 01       | 6           | TS8              | E1    |                     | 31A                |                    |        |
| 02526   |        | XA333     | 67  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 16106   |        | XA333     | 68  |      | XA333  | 74        |     |      | 16B         | 9    |       |       | TS13CO        | 07     | TS074A | 01       | 7           | TS8              | E1    |                     | 32A                |                    |        |
| 01242   |        | XA333     | 69  |      |        |           |     |      |             |      |       |       | DNW           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 13411   |        | XA333     | 70  |      | XA333  | 77        |     |      | 16B         | 9    |       |       | TIPEBP        | 03     | TS074A | 01       | 8           | TS8              | E1    |                     | 33A                |                    |        |
| 14572   |        | XA333     | 71  |      | XA333  | 61        |     |      | 16B         | 9    |       |       | T406BQ        | 02     | TS004A | 01       | 1           | TS8              | F1    |                     | 36A                |                    |        |
| 09004   |        | XA333     | 72  |      | XA345  | 13        |     |      | 16B         | 9    |       |       | TBLZAA        | 02     | TS004A | 01       | 2           | TS8              | F1    |                     | 34A                |                    |        |
| 08416   |        | XA333     | 73  |      | XA346  | 47        |     |      | 16B         | 9    |       |       | TAVEBP        | 04     | TS004A | 01       | 3           | TS8              | F1    |                     | 36B                |                    |        |
| 16107   |        | XA333     | 74  |      | XA342  | 70        |     |      | 16B         | 9    |       |       | TS13CO        | 08     | TS004A | 01       | 4           | TS8              | F1    |                     | 35B                |                    |        |
| 13524   |        | XA333     | 75  |      |        |           |     |      |             |      |       |       | TI10BP        | 05     | TS004A | 01       | 5           | TS8              | F1    |                     | 37B                |                    |        |
| 15765   |        | XA333     | 76  |      | XA344  | 78        |     |      | 16B         | 9    |       |       | TS004A        | 01     | TS004A | 00       | 1           | TS8              | F1    |                     | 37A                | NORMAL WORD INPUT  |        |
| 13412   |        | XA333     | 77  |      | XA113  | 35        |     |      | 16B         | 9    |       |       | TIPEBP        | 04     | TS004A | 01       | 6           | TS8              | F1    |                     | 38B                |                    |        |
| 10227   |        | XA333     | 78  |      | XA332  | 76        |     |      | 16B         | 9    |       |       | TC11CA        | 06     | TS004A | 01       | 7           | TS8              | F1    |                     | 38A                |                    |        |
| 13334   |        | XA333     | 79  |      | XA330  | 74        |     |      | 16B         | 9    |       |       | TINDBP        | 07     | TS004A | 01       | 8           | TS8              | F1    |                     | 39B                |                    |        |
| 01243   |        | XA333     | 80  |      |        |           |     |      |             |      |       |       | DNW           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 13885   |        | XA334     | 01  |      | XA334  | 25        |     |      | 16B         | 9    |       |       | TKT50A        | 05     | TDC420 | 01       | 1           | TS8              | A1    |                     | 02B                |                    |        |
| 02527   |        | XA334     | 02  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |             |                  |       |                     |                    | 01A                |        |
| 01244   |        | XA334     | 03  |      |        |           |     |      |             |      |       |       | DNW           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 13891   |        | XA334     | 04  |      | XA247  | 18        |     |      | 16B         | 9    |       |       | TKWXAA        | 04     | TDC420 | 01       | 2           | TS8              | A1    |                     | 04A                |                    |        |
| 14814   |        | XA334     | 05  |      | XA334  | 26        |     |      | 16B         | 9    |       |       | TPQRSA        | 05     | TDC420 | 01       | 3           | TS8              | A1    |                     | 03B                |                    |        |
| 09813   |        | XA334     | 06  |      | XA225  | 38        |     |      | 16B         | 9    |       |       | TCPCAA        | 04     | TDC420 | 01       | 4           | TS8              | A1    |                     | 05A                |                    |        |
| 16834   |        | XA334     | 07  |      | XA135  | 77        |     |      | 16B         | 9    |       |       | TWDXAA        | 04     | TDC420 | 01       | 5           | TS8              | A1    |                     | 03A                |                    |        |
| 09351   |        | XA334     | 08  |      | XA146  | 75        |     |      | 16B         | 9    |       |       | TB4XAA        | 01     | TDC420 | 01       | 6           | TS8              | A1    |                     | 06A                |                    |        |
| 01245   |        | XA334     | 09  |      |        |           |     |      |             |      |       |       | DNW           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 05672   |        | XA334     | 10  |      | XA335  | 07        |     |      | 16B         | 9    |       |       | SPI027        | 29     | TDC420 | 01       | 7           | TS8              | A1    |                     | 07A                |                    |        |
| 10657   |        | XA334     | 11  |      |        |           |     |      |             |      |       |       | TDC420        | 03     | TDC420 | 00       | 1           | TS8              | A1    |                     | 05B                | CLOCK INPUT T024   |        |
| 00528   |        | XA334     | 12  |      |        |           |     |      |             |      |       |       | +5V           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 10572   |        | XA334     | 13  |      | XA246  | 66        |     |      | 16B         | 9    |       |       | TDAXAA        | 09     | TDC420 | 01       | 8           | TS8              | A1    |                     | 06B                |                    |        |
| 09812   |        | XA334     | 14  |      | XA334  | 06        |     |      | 16B         | 9    |       |       | TCPCAA        | 03     | TDC610 | 01       | 1           | TS8              | B1    |                     | 09A                |                    |        |
| 01246   |        | XA334     | 15  |      |        |           |     |      |             |      |       |       | DNW           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 02528   |        | XA334     | 16  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |             |                  |       |                     |                    | 21B                |        |
| 01247   |        | XA334     | 17  |      |        |           |     |      |             |      |       |       | DNW           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 13890   |        | XA334     | 18  |      | XA334  | 04        |     |      | 16B         | 9    |       |       | TKWXAA        | 03     | TDC610 | 01       | 2           | TS8              | B1    |                     | 10A                |                    |        |
| 16833   |        | XA334     | 19  |      | XA334  | 07        |     |      | 16B         | 9    |       |       | TWDXAA        | 03     | TDC610 | 01       | 3           | TS8              | B1    |                     | 09B                |                    |        |
| 09335   |        | XA334     | 20  |      | XA146  | 63        |     |      | 16B         | 9    |       |       | TB3XAA        | 02     | TDC610 | 01       | 4           | TS8              | B1    |                     | 11A                |                    |        |
| 01248   |        | XA334     | 21  |      |        |           |     |      |             |      |       |       | DNW           | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 10584   |        | XA334     | 22  |      | XA247  | 14        |     |      | 16B         | 9    |       |       | TDAXBA        | 03     | TDC610 | 01       | 5           | TS8              | B1    |                     | 12A                |                    |        |
| 10662   |        | XA334     | 23  |      |        |           |     |      |             |      |       |       | TDC610        | 02     | TDC610 | 00       | 1           | TS8              | B1    |                     | 11B                | TD CLOCK CONTROL   |        |
| 05667   |        | XA334     | 24  |      | XA335  | 19        |     |      | 16B         | 9    |       |       | SPI027        | 24     | TDC610 | 01       | 6           | TS8              | B1    |                     | 13A                |                    |        |
| 13884   |        | XA334     | 25  |      | XA334  | 40        |     |      | 16B         | 9    |       |       | TKT50A        | 06     | TDC610 | 01       | 7           | TS8              | B1    |                     | 12B                |                    |        |
| CONNECTOR XA334 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |               |        |        |          |             |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA334  
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| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE  |             |      |       |       | SIGNAL | SPQ NO | EQUATION | TERM | FACT | CMT OP CHIP TYPE | GROUP | LOCAT OR POWER PLANE | TEST POINTS | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|------|------|------------------|-------|----------------------|-------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | IN FE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |      |                  |       |                      |             |                    |                  |
| 14815   |        | XA334     | 26  |        | XA334     | 42  |       |             | 16B  | 9     |       | TPQRSA | 06     | TDC610   | 01   | 8    | TS8              | BI    |                      | 14A         |                    |                  |
| 01249   |        | XA334     | 27  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 00529   |        | XA334     | 28  |        |           |     |       |             |      |       |       | +5V    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 01250   |        | XA334     | 29  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 09811   |        | XA334     | 30  |        | XA334     | 14  |       |             | 16B  | 9     |       | TCPCAA | 02     | TDC620   | 01   | 1    | TS8              | CI    |                      | 15A         |                    |                  |
| 13889   |        | XA334     | 31  |        | XA334     | 18  |       |             | 16B  | 9     |       | TKWXAA | 02     | TDC620   | 01   | 2    | TS8              | CI    |                      | 15B         |                    |                  |
| 02529   |        | XA334     | 32  |        |           |     |       |             |      |       |       | GND    | 01     |          |      |      | TS8              |       |                      | 27A         |                    |                  |
| 01251   |        | XA334     | 33  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 16832   |        | XA334     | 34  |        | XA334     | 19  |       |             | 16B  | 9     |       | TWDXAA | 02     | TDC620   | 01   | 3    | TS8              | CI    |                      | 16A         |                    |                  |
| 10663   |        | XA334     | 35  |        | XA231     | 64  |       |             | 16B  | 9     |       | TDC620 | 01     | TDC620   | 00   | 1    | TS8              | CI    |                      | 17B         |                    | CLOCK CONT TO BI |
| 05662   |        | XA334     | 36  |        | XA335     | 35  |       |             | 16B  | 9     |       | SPIO27 | 19     | TDC620   | 01   | 4    | TS8              | CI    |                      | 17A         |                    |                  |
| 09334   |        | XA334     | 37  |        | XA334     | 20  |       |             | 16B  | 9     |       | TB3XAA | 01     | TDC620   | 01   | 5    | TS8              | CI    |                      | 18B         |                    |                  |
| 10571   |        | XA334     | 38  |        | XA334     | 13  |       |             | 16B  | 9     |       | YDAXAA | 08     | TDC620   | 01   | 6    | TS8              | CI    |                      | 18A         |                    |                  |
| 01252   |        | XA334     | 39  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 13885   |        | XA334     | 40  |        | XA334     | 54  |       |             | 16B  | 9     |       | TKTSJA | 07     | TDC620   | 01   | 7    | TS8              | CI    |                      | 19A         |                    |                  |
| 01253   |        | XA334     | 41  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 14816   |        | XA334     | 42  |        | XA334     | 49  |       |             | 16B  | 9     |       | TPQRSA | 07     | TDC620   | 01   | 8    | TS8              | CI    |                      | 20A         |                    |                  |
| 05660   |        | XA334     | 43  |        | XA333     | 42  |       |             | 16B  | 9     |       | SPIO27 | 17     | TDC820   | 01   | 1    | TS8              | DI    |                      | 23B         |                    |                  |
| 02530   |        | XA334     | 44  |        |           |     |       |             |      |       |       | GND    | 01     |          |      |      | TS8              |       |                      | 40A         |                    |                  |
| 01254   |        | XA334     | 45  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 09318   |        | XA334     | 46  |        | XA141     | 22  |       |             | 16B  | 9     |       | TB2XAA | 01     | TDC820   | 01   | 2    | TS8              | DI    |                      | 21A         |                    |                  |
| 10668   |        | XA334     | 47  |        | XA230     | 54  |       |             | 16B  | 9     |       | TDC820 | 01     | TDC820   | 00   | 1    | TS8              | DI    |                      | 25B         |                    | TD CLOCK CONTROL |
| 16831   |        | XA334     | 48  |        | XA334     | 34  |       |             | 16B  | 9     |       | TWDXAA | 01     | TDC820   | 01   | 3    | TS8              | DI    |                      | 22A         |                    |                  |
| 14817   |        | XA334     | 49  |        |           |     |       |             |      |       |       | TPQRSA | 08     | TDC820   | 01   | 4    | TS8              | DI    |                      | 26B         |                    |                  |
| 13888   |        | XA334     | 50  |        | XA334     | 31  |       |             | 16B  | 9     |       | TKWXAA | 01     | TDC820   | 01   | 5    | TS8              | DI    |                      | 23A         |                    |                  |
| 01255   |        | XA334     | 51  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 09810   |        | XA334     | 52  |        | XA334     | 30  |       |             | 16B  | 9     |       | TCPCAA | 01     | TDC820   | 01   | 6    | TS8              | DI    |                      | 24A         |                    |                  |
| 01256   |        | XA334     | 53  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 13886   |        | XA334     | 54  |        | XA324     | 74  |       |             | 16B  | 9     |       | TKYSOA | 08     | TDC820   | 01   | 7    | TS8              | DI    |                      | 25A         |                    |                  |
| 16461   |        | XA334     | 55  |        | XA350     | 69  |       |             | 16B  | 9     |       | TS28FA | 01     | TC0180   | 01   | 1    | TS8              | E1    |                      | 29B         |                    |                  |
| 10583   |        | XA334     | 56  |        | XA334     | 22  |       |             | 16B  | 9     |       | YDAXBA | 02     | TDC820   | 01   | 8    | TS8              | DI    |                      | 26A         |                    |                  |
| 01257   |        | XA334     | 57  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 02531   |        | XA334     | 58  |        |           |     |       |             |      |       |       | GND    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 09651   |        | XA334     | 59  |        |           |     |       |             |      |       |       | TC0180 | 06     | TC0180   | 00   | 1    | TS8              | E1    |                      | 31B         |                    | TD0031 TO TC0031 |
| 05579   |        | XA334     | 60  |        | XA335     | 55  |       |             | 16B  | 9     |       | SPIO25 | 07     | TC0180   | 01   | 2    | TS8              | E1    |                      | 28A         |                    |                  |
| 05654   |        | XA334     | 61  |        | XA333     | 54  |       |             | 16B  | 9     |       | SPIO27 | 11     | TC0180   | 01   | 3    | TS8              | E1    |                      | 32B         |                    |                  |
| 09663   |        | XA334     | 62  |        | XA246     | 63  |       |             | 16B  | 9     |       | TC013A | 02     | TC0180   | 01   | 4    | TS8              | E1    |                      | 29A         |                    |                  |
| 01258   |        | XA334     | 63  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 09655   |        | XA334     | 64  |        |           |     |       |             |      |       |       | TC011A | 04     | TC0180   | 01   | 5    | TS8              | E1    |                      | 30A         |                    |                  |
| 01259   |        | XA334     | 65  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 09661   |        | XA334     | 66  |        |           |     |       |             |      |       |       | TC012A | 04     | TC0180   | 01   | 6    | TS8              | E1    |                      | 31A         |                    |                  |
| 02532   |        | XA334     | 67  |        |           |     |       |             |      |       |       | GND    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 09672   |        | XA334     | 68  |        |           |     |       |             |      |       |       | TC014A | 06     | TC0180   | 01   | 7    | TS8              | E1    |                      | 32A         |                    |                  |
| 01260   |        | XA334     | 69  |        |           |     |       |             |      |       |       | DNW    | 01     |          |      |      | TS8              |       |                      |             |                    |                  |
| 05685   |        | XA334     | 70  |        | XA330     | 71  |       |             | 16B  | 9     |       | SPIO28 | 10     | TC0180   | 01   | 8    | TS8              | E1    |                      | 33A         |                    |                  |
| 05653   |        | XA334     | 71  |        | XA334     | 61  |       |             | 16B  | 9     |       | SPIO27 | 10     | TMHST0   | 01   | 1    | TS8              | FI    |                      | 36A         |                    |                  |
| 14137   |        | XA334     | 72  |        |           |     |       |             |      |       |       | TMHS4A | 02     | TMHST0   | 01   | 2    | TS8              | FI    |                      | 34A         |                    |                  |
| 14133   |        | XA334     | 73  |        | XA327     | 78  |       |             | 16B  | 9     |       | SPIO24 | 00     | TMHST0   | 01   | 3    | TS8              | FI    |                      | 36B         |                    |                  |
| 05578   |        | XA334     | 74  |        | XA334     | 60  |       |             | 16B  | 9     |       | SPIO25 | 06     | TMHST0   | 01   | 4    | TS8              | FI    |                      | 35B         |                    | C07              |
| 14135   |        | XA334     | 75  |        |           |     |       |             |      |       |       | TMHS2A | 02     | TMHST0   | 01   | 5    | TS8              | FI    |                      | 37B         |                    |                  |
| CONNECTOR (XA334) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |       |        |        |          |      |      |                  |       |                      |             |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA334  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 231

| RECORD NUMBER                                   | FROM   |           |     | TO  |        |           | WIRE |      |      | MULTI GROUP | CODE | COL IN | IDENT | SPEC INST. MISC | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CH.P. TYPE | GROUP | LOAD OF POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|------|------|------|-------------|------|--------|-------|-----------------|--------|--------|----------|-------------|-------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | PREFIX | CONNECTOR | PIN  | WIRE | WIRE |             |      |        |       |                 |        |        |          |             |                   |       |                     |                    |                    |        |
| 14130   |        | XA334     | 76  |     | XA304  | 35        |      |      |      | 16B         | 9    |        |       | TMHSTO          | 01     | TMHSTO | 00       | 1           | TS8               | F1    |                     | 37A                | SET MEM HOLD FF    | D06    |
| 16216   |        | XA334     | 77  |     | XA128  | 18        |      |      |      | 16B         | 9    |        |       | ICD24A          | 005    | TMHSTO | 01       | 6           | TS8               | F1    |                     | 38B                |                    | D07    |
| 16022   |        | XA334     | 78  |     |        |           |      |      |      |             |      |        |       | TS10BP          | 05     | TMHSTO | 01       | 7           | TS8               | F1    |                     | 38A                |                    |        |
| 12584   |        | XA334     | 79  |     |        |           |      |      |      |             |      |        |       | TES32A          | 03     | TMHSTO | 01       | 8           | TS8               | F1    |                     | 39B                |                    |        |
| 01261   |        | XA334     | 80  |     |        |           |      |      |      |             |      |        |       | DNW             | 01     |        |          |             |                   |       |                     |                    |                    |        |
| 13684   |        | XA335     | 01  |     | XA326  | 07        |      |      |      | 16B         | 9    |        | P     | TK1AB0          | 05     | TKAABB | 01       | 1           | TQ2               | A2    |                     | 02B                |                    |        |
| 13955   |        | XA335     | 01  |     |        |           |      |      |      |             |      |        | J     | TK1AB0          | 01     | TK1AB0 | 00       | 1           | TQ2               | A2    |                     | 02B                | TKAABB             | BUSS   |
| 02533   |        | XA335     | 02  |     |        |           |      |      |      |             |      |        |       | GND             | 01     |        |          |             |                   |       |                     | 01A                |                    |        |
| 13730   |        | XA335     | 03  |     | XA335  | 17        |      |      |      | 16B         | 9    |        |       | TKACAB          | 03     | TK1AC0 | 01       | 1           | TQ2               | A3    |                     | 02A                |                    |        |
| 13729   |        | XA335     | 04  |     | XA335  | 03        |      |      |      | 16B         | 9    |        |       | TKACAB          | 02     | TK1AB0 | 01       | 1           | TQ2               | A2    |                     | 04A                |                    |        |
| 05674   |        | XA335     | 05  |     | XA335  | 11        |      |      |      | 16B         | 9    |        |       | SPI027          | 31     | TK1AB0 | 01       | 2           | TQ2               | A2    |                     | 03B                |                    |        |
| 13675   |        | XA335     | 06  |     | XA335  | 22        |      |      |      | 16B         | 9    |        | P     | TK1AA0          | 07     | TKAABB | 01       | 1           | TQ2               | A1    |                     | 05A                |                    |        |
| 13953   |        | XA335     | 06  |     |        |           |      |      |      |             |      |        | J     | TK1AA0          | 01     | TK1AA0 | 00       | 1           | TQ2               | A1    |                     | 09A                | TKAABB             | BUSS   |
| 05673   |        | XA335     | 07  |     | XA335  | 05        |      |      |      | 16B         | 9    |        |       | SPI027          | 30     | TK1AC0 | 01       | 2           | TQ2               | A3    |                     | 03A                |                    |        |
| 13728   |        | XA335     | 08  |     | XA335  | 04        |      |      |      | 16B         | 9    |        |       | TKACAB          | 01     | TK1AA0 | 01       | 1           | TQ2               | A1    |                     | 06A                |                    |        |
| 13706   |        | XA335     | 09  |     | XA335  | 21        |      |      |      | 16B         | 9    |        | P     | TK1AC0          | 11     | TKAACB | 01       | 1           | TQ2               | A3    |                     | 04B                | TKAACB             | BUSS   |
| 13957   |        | XA335     | 09  |     |        |           |      |      |      |             |      |        | J     | TK1AC0          | 01     | TK1AC0 | 00       | 1           | TQ2               | A3    |                     | 04B                |                    |        |
| 05671   |        | XA335     | 10  |     | XA334  | 10        |      |      |      | 16B         | 9    |        |       | SPI027          | 28     | TK1AA0 | 01       | 2           | TQ2               | A1    |                     | 07A                |                    |        |
| 05675   |        | XA335     | 11  |     |        |           |      |      |      |             |      |        |       | SPI027          | 32     | KOR110 | 01       | 1           | TQ2               | A4    |                     | 05B                |                    |        |
| 00530   |        | XA335     | 12  |     |        |           |      |      |      |             |      |        |       | +5V             | 01     |        |          |             |                   |       |                     |                    |                    |        |
| 17060   |        | XA335     | 13  |     | XA340  | 07        |      |      |      | 16B         | 9    |        |       | TOF51A          | 03     | KOR110 | 01       | 2           | TQ2               | A4    |                     | 06B                |                    |        |
| 13683   |        | XA335     | 14  |     | XA335  | 01        |      |      |      | 16B         | 9    |        | P     | TK2AB0          | 04     | TKAABB | 02       | 1           | TQ2               | B2    |                     | 09A                | TKAABB             | BUSS   |
| 13974   |        | XA335     | 14  |     |        |           |      |      |      |             |      |        | J     | TK2AB0          | 01     | TK2AB0 | 00       | 1           | TQ2               | B2    |                     | 07B                |                    |        |
| 04390   |        | XA335     | 15  |     |        |           |      |      |      |             |      |        |       | KOR110          | 12     | KOR110 | 00       | 1           | TQ2               | A4    |                     | 07B                |                    |        |
| 02534   |        | XA335     | 16  |     |        |           |      |      |      |             |      |        |       | GND             | 01     |        |          |             |                   |       |                     | 01B                |                    |        |
| 13731   |        | XA335     | 17  |     | XA335  | 18        |      |      |      | 16B         | 9    |        |       | TKACAB          | 04     | TK2AC0 | 01       | 1           | TQ2               | B3    |                     | 08B                |                    |        |
| 13732   |        | XA335     | 18  |     | XA335  | 24        |      |      |      | 16B         | 9    |        |       | TKACAB          | 05     | TK2AB0 | 01       | 1           | TQ2               | B2    |                     | 10A                |                    |        |
| 05668   |        | XA335     | 19  |     | XA335  | 20        |      |      |      | 16B         | 9    |        |       | SPI027          | 25     | TK2AC0 | 01       | 2           | TQ2               | B3    |                     | 09B                |                    |        |
| 05669   |        | XA335     | 20  |     | XA335  | 26        |      |      |      | 16B         | 9    |        |       | SPI027          | 26     | TK2AB0 | 01       | 2           | TQ2               | B2    |                     | 11A                |                    |        |
| 13707   |        | XA335     | 21  |     | XA328  | 24        |      |      |      | 16B         | 9    |        | P     | TK2AC0          | 12     | TKAACB | 02       | 1           | TQ2               | B3    |                     | 10B                | TKAACB             | BUSS   |
| 13976   |        | XA335     | 21  |     |        |           |      |      |      |             |      |        | J     | TK2AC0          | 01     | TK2AC0 | 00       | 1           | TQ2               | B3    |                     | 10B                |                    |        |
| 13676   |        | XA335     | 22  |     | XA335  | 38        |      |      |      | 16B         | 9    |        | P     | TK2AA0          | 08     | TKAABB | 02       | 1           | TQ2               | B1    |                     | 12A                |                    |        |
| 13972   |        | XA335     | 22  |     |        |           |      |      |      |             |      |        | J     | TK2AA0          | 01     | TK2AA0 | 00       | 1           | TQ2               | B1    |                     | 12A                | TKAABB             | BUSS   |
| 05666   |        | XA335     | 23  |     | XA334  | 24        |      |      |      | 16B         | 9    |        |       | SPI027          | 23     | KOR120 | 01       | 1           | TQ2               | B4    |                     | 11B                |                    |        |
| 13733   |        | XA335     | 24  |     | XA335  | 29        |      |      |      | 16B         | 9    |        |       | TKACAB          | 06     | TK2AA0 | 01       | 1           | TQ2               | B1    |                     | 13A                |                    |        |
| 17059   |        | XA335     | 25  |     | XA335  | 13        |      |      |      | 16B         | 9    |        |       | TOF51A          | 02     | KOR120 | 01       | 2           | TQ2               | B4    |                     | 12B                |                    |        |
| 05670   |        | XA335     | 26  |     | XA335  | 10        |      |      |      | 16B         | 9    |        |       | SPI027          | 27     | TK2AA0 | 01       | 2           | TQ2               | B1    |                     | 14A                |                    |        |
| 04401   |        | XA335     | 27  |     |        |           |      |      |      |             |      |        |       | KOR120          | 11     | KOR120 | 00       | 1           | TQ2               | B4    |                     | 13B                |                    |        |
| 00531   |        | XA335     | 28  |     |        |           |      |      |      |             |      |        |       | +5V             | 01     |        |          |             |                   |       |                     |                    |                    |        |
| 13734   |        | XA335     | 29  |     | XA335  | 34        |      |      |      | 16B         | 9    |        |       | TKACAB          | 07     | TK3AC0 | 01       | 1           | TQ2               | C3    |                     | 14B                |                    |        |
| 13682   |        | XA335     | 30  |     | XA335  | 14        |      |      |      | 16B         | 9    |        | P     | TK3AB0          | 03     | TKAABB | 03       | 1           | TQ2               | C2    |                     | 15A                | TKAABB             | BUSS   |
| 14000   |        | XA335     | 30  |     |        |           |      |      |      |             |      |        | J     | TK3AB0          | 01     | TK3AB0 | 00       | 1           | TQ2               | C2    |                     | 15A                |                    |        |
| 05665   |        | XA335     | 31  |     | XA335  | 23        |      |      |      | 16B         | 9    |        |       | SPI027          | 22     | TK3AC0 | 01       | 2           | TQ2               | C3    |                     | 15B                |                    |        |
| 02535   |        | XA335     | 32  |     |        |           |      |      |      |             |      |        |       | GND             | 01     |        |          |             |                   |       |                     | 20B                |                    |        |
| 13705   |        | XA335     | 33  |     | XA335  | 09        |      |      |      | 16B         | 9    |        | P     | TK3AC0          | 10     | TKAACB | 03       | 1           | TQ2               | C3    |                     | 16B                | TKAACB             | BUSS   |
| 14002   |        | XA335     | 33  |     |        |           |      |      |      |             |      |        | J     | TK3AC0          | 01     | TK3AC0 | 00       | 1           | TQ2               | C3    |                     | 16B                |                    |        |
| 13735   |        | XA335     | 34  |     | XA335  | 40        |      |      |      | 16B         | 9    |        |       | TKACAB          | 08     | TK3AB0 | 01       | 1           | TQ2               | C2    |                     | 16A                |                    |        |
| 05663   |        | XA335     | 35  |     | XA335  | 36        |      |      |      | 16B         | 9    |        |       | SPI027          | 20     | KOR130 | 01       | 1           | TQ2               | C4    |                     | 17B                |                    |        |
| CONNECTOR XA335 CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |      |      |      |             |      |        |       |                 |        |        |          |             |                   |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA335  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 232

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       | TEST POINTS | SIGNAL | SFC NO | EQUATION | TURN | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | MARK | PREFIX | CONNECTOR | PIN | MARK | MULTI GROUP | CODE | COLOR |             |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05664         | XA335  | 36        |                                 |      | XA335  | 31        |     |      | 16B         | 9    |       |             | SPI027 | 21     | TK3AB0   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 17058         | XA335  | 37        |                                 |      | XA335  | 25        |     |      | 16B         | 9    |       |             | TOFS1A | 01     | KOR130   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 13677         | XA335  | 38        |                                 |      | XA335  | 52        |     |      | 16B         | 9    |       |             | TK3AA0 | 09     | TKAAAB   | 03   | 1      | TQ2              | C1    |                     | 18A                |                    |        |
| 13998         | XA335  | 38        |                                 |      | XA335  | 52        |     |      | 16B         | 9    | J     |             | TK3AA0 | 01     | TK3AA0   | 00   | 1      | TQ2              | C1    |                     | 18A                | TKAAAB BUSS        |        |
| 04402         | XA335  | 39        |                                 |      | XA212  | 77        |     |      | 16B         | 9    |       |             | KOR130 | 01     | KOR130   | 00   | 1      | TQ2              | C4    |                     | 19B                |                    |        |
| 13736         | XA335  | 40        |                                 |      | XA335  | 41        |     |      | 16B         | 9    |       |             | TKACAB | 09     | TK3AA0   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 13737         | XA335  | 41        |                                 |      | XA335  | 48        |     |      | 16B         | 9    |       |             | TKACAB | 10     | TK4AC0   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 05658         | XA335  | 42        |                                 |      | XA335  | 43        |     |      | 16B         | 9    |       |             | SPI027 | 15     | TK3AA0   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 05659         | XA335  | 43        |                                 |      | XA334  | 43        |     |      | 16B         | 9    |       |             | SPI027 | 16     | TK4AC0   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02536         | XA335  | 44        |                                 |      |        |           |     |      | 16B         | 9    |       |             | GND    | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 13704         | XA335  | 45        |                                 |      | XA335  | 33        |     |      | 16B         | 9    | P     |             | TK4AC0 | 09     | TKAACB   | 04   | 1      | TQ2              | D3    |                     | 24B                |                    |        |
| 14013         | XA335  | 45        |                                 |      |        |           |     |      | 16B         | 9    | J     |             | TK4AC0 | 01     | TK4AC0   | 00   | 1      | TQ2              | D3    |                     | 24B                | TKAACB BUSS        |        |
| 13681         | XA335  | 46        |                                 |      | XA335  | 30        |     |      | 16B         | 9    | P     |             | TK4AB0 | 02     | TKAABB   | 04   | 1      | TQ2              | D2    |                     | 21A                |                    |        |
| 14011         | XA335  | 46        |                                 |      |        |           |     |      | 16B         | 9    | J     |             | TK4AB0 | 01     | TK4AB0   | 00   | 1      | TQ2              | D2    |                     | 21A                | TKAABB BUSS        |        |
| 05581         | XA335  | 47        |                                 |      | XA333  | 49        |     |      | 16B         | 9    |       |             | SPI025 | 09     |          | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 13738         | XA335  | 48        |                                 |      | XA335  | 54        |     |      | 16B         | 9    |       |             | TKACAB | 11     | TK4AB0   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 05742         | XA335  | 49        |                                 |      |        |           |     |      | 16B         | 9    |       |             | SPI029 | 34     |          | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 05657         | XA335  | 50        |                                 |      | XA335  | 42        |     |      | 16B         | 9    |       |             | SPI027 | 14     | TK4AB0   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 07902         | XA335  | 51        |                                 |      |        |           |     |      | 16B         | 9    |       |             | SPO    | 01     |          | 00   | 1      | TQ2              | D4    |                     | 27B                |                    |        |
| 13678         | XA335  | 52        |                                 |      | XA346  | 71        |     |      | 16B         | 9    | P     |             | TK4AA0 | 10     | TKAAAB   | 04   | 1      | TQ2              | D1    |                     | 24A                |                    |        |
| 14009         | XA335  | 52        |                                 |      |        |           |     |      | 16B         | 9    | J     |             | TK4AA0 | 01     | TK4AA0   | 00   | 1      | TQ2              | D1    |                     | 24A                | TKAAAB BUSS        |        |
| 05741         | XA335  | 53        |                                 |      | XA335  | 49        |     |      | 16B         | 9    |       |             | SPI029 | 33     |          | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 13739         | XA335  | 54        |                                 |      | XA338  | 57        |     |      | 16B         | 9    |       |             | TKACAB | 12     | TK4AA0   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 05580         | XA335  | 55        |                                 |      | XA335  | 47        |     |      | 16B         | 9    |       |             | SPI025 | 08     |          | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 05656         | XA335  | 56        |                                 |      | XA335  | 50        |     |      | 16B         | 9    |       |             | SPI027 | 15     | TK4AA0   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 07903         | XA335  | 57        |                                 |      |        |           |     |      | 16B         | 9    |       |             | SPO    | 01     |          | 00   | 1      | TQ2              | E3    |                     | 30B                |                    |        |
| 02537         | XA335  | 58        |                                 |      |        |           |     |      | 16B         | 9    |       |             | GND    | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 13937         | XA335  | 59        |                                 |      | XA339  | 13        |     |      | 16B         | 9    |       |             | TK01BQ | 03     | TK4DA0   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 13725         | XA335  | 60        |                                 |      | XA335  | 66        |     |      | 16B         | 9    | P     |             | TK2DA0 | 13     | TKABAB   | 02   | 1      | TQ2              | E2    |                     | 28A                |                    |        |
| 13978         | XA335  | 60        |                                 |      |        |           |     |      | 16B         | 9    | J     |             | TK2DA0 | 01     | TK2DA0   | 00   | 1      | TQ2              | E2    |                     | 28A                | TKABAB BUSS        |        |
| 05740         | XA335  | 61        |                                 |      | XA335  | 53        |     |      | 16B         | 9    |       |             | SPI029 | 32     | TK4DA0   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 13936         | XA335  | 62        |                                 |      | XA335  | 59        |     |      | 16B         | 9    |       |             | TK01BQ | 02     | TK2DA0   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 13727         | XA335  | 63        |                                 |      |        |           |     |      | 16B         | 9    | P     |             | TK4DA0 | 15     | TKABAB   | 04   | 1      | TQ2              | E4    |                     | 33B                |                    |        |
| 14015         | XA335  | 63        |                                 |      |        |           |     |      | 16B         | 9    | J     |             | TK4DA0 | 01     | TK4DA0   | 00   | 1      | TQ2              | E4    |                     | 33B                | TKABAB BUSS        |        |
| 05738         | XA335  | 64        |                                 |      | XA335  | 65        |     |      | 16B         | 9    |       |             | SPI029 | 30     | TK2DA0   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 05739         | XA335  | 65        |                                 |      | XA335  | 61        |     |      | 16B         | 9    |       |             | SPI029 | 31     |          | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 13726         | XA335  | 66        |                                 |      | XA335  | 63        |     |      | 16B         | 9    | P     |             | TK1DA0 | 14     | TKABAB   | 01   | 1      | TQ2              | E1    |                     | 31A                |                    |        |
| 13958         | XA335  | 66        |                                 |      |        |           |     |      | 16B         | 9    | J     |             | TK1DA0 | 01     | TK1DA0   | 00   | 1      | TQ2              | E1    |                     | 31A                | TKABAB BUSS        |        |
| 02538         | XA335  | 67        |                                 |      |        |           |     |      | 16B         | 9    |       |             | GND    | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 13935         | XA335  | 68        |                                 |      | XA335  | 62        |     |      | 16B         | 9    |       |             | TK01BQ | 01     | TK1DA0   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 07904         | XA335  | 69        |                                 |      |        |           |     |      | 16B         | 9    |       |             | SPO    | 01     |          | 00   | 1      | TQ2              | F3    |                     | 35A                |                    |        |
| 05737         | XA335  | 70        |                                 |      | XA335  | 64        |     |      | 16B         | 9    |       |             | SPI029 | 29     | TK1DA0   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 16408         | XA335  | 71        |                                 |      | XA341  | 35        |     |      | 16B         | 9    |       |             | TS25BQ | 04     | TS262A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 16434         | XA335  | 72        |                                 |      | XA236  | 74        |     |      | 16B         | 9    |       |             | TS262A | 01     | TS262A   | 00   | 1      | TQ2              | F2    |                     | 34A                |                    |        |
| 09716         | XA335  | 73        |                                 |      |        |           |     |      | 16B         | 9    |       |             | TCD320 | 03     | TS262A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 05772         | XA335  | 74        |                                 |      | XA405  | 03        |     |      | 16B         | 9    |       |             | SPI030 | 30     |          | 01   | 2      | TQ2              | F3    |                     | 35B                |                    |        |
| 07905         | XA335  | 75        |                                 |      |        |           |     |      | 16B         | 9    |       |             | SPO    | 01     |          | 00   | 1      | TQ2              | F1    |                     | 37B                |                    |        |
| 05771         | XA335  | 76        |                                 |      | XA340  | 11        |     |      | 16B         | 9    |       |             | TS012A | 005    | TS0120   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    | 005    |
| 05735         | XA335  | 77        |                                 |      | XA335  | 70        |     |      | 16B         | 9    |       |             | SPI029 | 27     |          | 01   | 1      | TQ2              | F1    |                     | 38B                |                    | 005    |
| 05736         | XA335  | 78        |                                 |      | XA338  | 72        |     |      | 16B         | 9    |       |             | TCP05A | 01     | TS0120   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    | 005    |
| CONNECTOR     |        | XA335     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |             |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA335  
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| RECORD NUMBER                                   | FROM   |           |     | TO | WIRE   |           |     |             | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD GR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|--------|-----------|-----|-------------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |    | PREFIX | CONNECTOR | PIN | MULTI GROUP |        |        |          |        |        |                  |       |                     |                    |                    |        |
| 05577   |        | XA335     | 79  |    |        |           |     |             |        | SPI025 | 05       |        |        |                  |       |                     |                    |                    |        |
| 07906   |        | XA335     | 8C  |    | XA334  | 74        |     | 16B         | 9      | TS0120 | 02       | TS0120 | 01     | 2                | TQ2   | F1                  |                    |                    |        |
|   |        |           |     |    |        |           |     |             |        |        |          | 00     | 1      | TQ2              | F4    |                     | 39B<br>39A         |                    | D05    |
| 01262   |        | XA336     | 01  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 02539   |        | XA336     | 02  |    |        |           |     |             |        | GND    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 07907   |        | XA336     | 03  |    |        |           |     |             |        | SPO    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01263   |        | XA336     | 04  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 04842   |        | XA336     | 05  |    |        |           |     |             |        | SPA    | 01       |        |        | CSC              |       |                     |                    |                    |        |
| 01264   |        | XA336     | 06  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01265   |        | XA336     | 07  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01266   |        | XA336     | 08  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01267   |        | XA336     | 09  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01268   |        | XA336     | 10  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01269   |        | XA336     | 11  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 00532   |        | XA336     | 12  |    |        |           |     |             |        | +5V    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 03868   |        | XA336     | 13  |    |        |           |     |             |        | SPP    | 01       |        |        | OSC              |       |                     |                    | KEYWAY             | A01    |
| 03869   |        | XA336     | 14  |    |        |           |     |             |        | SPP    | 01       |        |        | OSC              |       |                     |                    | KEYWAY             | A01    |
| 01270   |        | XA336     | 15  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 21334   |        | XA336     | 16  |    |        |           |     |             |        | GND    | 01       |        |        | OSC              |       |                     |                    |                    | A01    |
| 03870   |        | XA336     | 17  |    |        |           |     |             |        | SPP    | 01       |        |        | OSC              |       |                     |                    | KEYWAY             | A01    |
| 03871   |        | XA336     | 18  |    |        |           |     |             |        | SPP    | 01       |        |        | OSC              |       |                     |                    | KEYWAY             | A01    |
| 04609   |        | XA336     | 19  |    | XA405  | 30        |     | 16B         | 9      | RCK01J | 01       |        |        | OSC              |       |                     |                    |                    | A01    |
| 01271   |        | XA336     | 20  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 07909   |        | XA336     | 21  |    |        |           |     |             |        | SPO    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01272   |        | XA336     | 22  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 07910   |        | XA336     | 23  |    |        |           |     |             |        | SPO    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01273   |        | XA336     | 24  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 07911   |        | XA336     | 25  |    |        |           |     |             |        | SPO    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 09729   |        | XA336     | 26  |    |        |           |     |             |        | TCK04K | 02       |        |        | OSC              |       |                     |                    |                    |        |
| 01274   |        | XA336     | 27  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 00533   |        | XA336     | 28  |    |        |           |     |             |        | +5V    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 04843   |        | XA336     | 29  |    |        |           |     |             |        | SPA    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 04844   |        | XA336     | 30  |    |        |           |     |             |        | SPA    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01275   |        | XA336     | 31  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 02540   |        | XA336     | 32  |    |        |           |     |             |        | GND    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 07912   |        | XA336     | 33  |    |        |           |     |             |        | SPO    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01276   |        | XA336     | 34  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01277   |        | XA336     | 35  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01278   |        | XA336     | 36  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 09728   |        | XA336     | 37  |    | XA336  | 26        |     | 16B         | 9      | TCK04K | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01279   |        | XA336     | 38  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 09732   |        | XA336     | 39  |    |        |           |     |             |        | TCK08K | 03       |        |        | OSC              |       |                     |                    |                    |        |
| 01280   |        | XA336     | 40  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 07913   |        | XA336     | 41  |    |        |           |     |             |        | TCK08J | 02       |        |        | OSC              |       |                     |                    |                    |        |
| 01281   |        | XA336     | 42  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01282   |        | XA336     | 43  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 02541   |        | XA336     | 44  |    |        |           |     |             |        | GND    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01283   |        | XA336     | 45  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| 01284   |        | XA336     | 46  |    |        |           |     |             |        | DNW    | 01       |        |        | OSC              |       |                     |                    |                    |        |
| CONNECTOR XA336 CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |             |        |        |          |        |        |                  |       |                     |                    |                    |        |

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 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 234

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | IN FC | PREFIX | CONNECTOR | PIN | IN FC | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 01285   | XA336  | 47        |     |       | XA336  | 48        |     |       |             | 16B  | 9     |       | TOSCAA  | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 20528   | XA336  | 48        |     |       | XA336  | 60        |     |       |             | 16B  | 9     |       | TOSCAA  | 02     |          |      | OSC    | 16               |       |                     |                    |                    |        |
| 01286   | XA336  | 49        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 14346   | XA336  | 50        |     |       | XA406  | 78        |     |       |             | 16B  | 9     |       | TMTCC0  | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01287   | XA336  | 51        |     |       |        |           |     |       |             |      |       |       | TOSCAA  | 02     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 04863   | XA336  | 52        |     |       |        |           |     |       |             |      |       |       | SPI     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01288   | XA336  | 53        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01289   | XA336  | 54        |     |       | XA339  | 10        |     |       |             | 16B  | 9     |       | TOSCG0  | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01290   | XA336  | 55        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01291   | XA336  | 56        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01292   | XA336  | 57        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 02542   | XA336  | 58        |     |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01293   | XA336  | 59        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01294   | XA336  | 60        |     |       |        |           |     |       |             |      |       |       | TOSCAA  | 03     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01295   | XA336  | 61        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01296   | XA336  | 62        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01297   | XA336  | 63        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01298   | XA336  | 64        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01299   | XA336  | 65        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01300   | XA336  | 66        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 02543   | XA336  | 67        |     |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01301   | XA336  | 68        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01302   | XA336  | 69        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01303   | XA336  | 70        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01304   | XA336  | 71        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01305   | XA336  | 72        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01306   | XA336  | 73        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01307   | XA336  | 74        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01308   | XA336  | 75        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01309   | XA336  | 76        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01310   | XA336  | 77        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01311   | XA336  | 78        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01312   | XA336  | 79        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01313   | XA336  | 80        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | OSC    |                  |       |                     |                    |                    |        |
| 01314   | XA337  | 01        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | RR4    |                  |       |                     |                    |                    |        |
| 02544   | XA337  | 02        |     |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      | RR4    |                  |       |                     |                    |                    |        |
| 21357   | XA337  | 02        |     |       | XA337  | 06        |     |       |             | 16B  | 9     |       | G33702  | 00     |          |      | RR4    |                  |       |                     |                    | B05                |        |
| 00063   | XA337  | 03        |     |       | XA337  | 04        |     |       |             | 16B  | 9     |       | +05RES1 | 280    |          |      | RR4    | AP               |       |                     |                    | B04                |        |
| 00064   | XA337  | 04        |     |       | XA337  | 13        |     |       |             | 16B  | 9     |       | +05RES1 | 285    |          |      | RR4    | AP               |       |                     |                    | B04                |        |
| 08230   | XA337  | 05        |     |       |        |           |     |       |             |      |       |       | TACX0D  | 06     |          |      | RR4    | A3               |       |                     |                    |                    |        |
| 05395   | XA337  | 06        |     |       | XA337  | 18        |     |       |             | 16B  | 9     |       | G33702  | 01     |          |      | RR4    | AC               |       |                     |                    | B05                |        |
| 08240   | XA337  | 07        |     |       |        |           |     |       |             |      |       |       | TACX1D  | 06     |          |      | RR4    | A4               |       |                     |                    |                    |        |
| 08250   | XA337  | 08        |     |       |        |           |     |       |             |      |       |       | TACX2D  | 06     |          |      | RR4    | A1               |       |                     |                    |                    |        |
| 08255   | XA337  | 09        |     |       | XA312  | 08        |     |       |             | 16B  | 9     |       | TACX3D  | 01     |          |      | RR4    | A5               |       |                     |                    |                    |        |
| 08261   | XA337  | 10        |     |       | XA313  | 22        |     |       |             | 16B  | 9     |       | TACX4D  | 01     |          |      | RR4    | A2               |       |                     |                    |                    |        |
| 01315   | XA337  | 11        |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      | RR4    |                  |       |                     |                    |                    |        |
| 00534   | XA337  | 12        |     |       |        |           |     |       |             |      |       |       | +5V     | 01     |          |      | RR4    |                  |       |                     |                    |                    |        |
| 00065   | XA337  | 13        |     |       | XA337  | 14        |     |       |             | 16B  | 9     |       | +05RES1 | 290    |          |      | RR4    | BP               |       |                     |                    | B04                |        |
| CONNECTOR (XA337) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA337  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 235

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SFC INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | OHM | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|---------------|---------|--------|----------|-------------|------------------|-----|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |               |         |        |          |             |                  |     |                     |                    |                    |        |
| 00066   |        | XA337     | 14  |        | XA337     | 33  |             |      | 16B   | 9     |               | +05RES1 | 295    |          |             | RR4              | BP  |                     |                    |                    | B04    |
| 03872   |        | XA337     | 15  |        |           |     |             |      |       |       |               | DNW     | 01     |          |             | RR4              |     |                     |                    |                    | C04    |
| 03873   |        | XA337     | 16  |        |           |     |             |      |       |       |               | DNW     | 01     |          |             | RR4              |     |                     |                    |                    | C04    |
| 08273   |        | XA337     | 17  |        | XA313     | 21  |             |      | 16B   | 9     |               | TACX6D  | 01     |          |             | RR4              | B4  |                     |                    |                    |        |
| 03396   |        | XA337     | 18  |        | XA337     | 30  |             |      | 16B   | 9     |               | G33702  | 02     |          |             | RR4              | BC  |                     |                    |                    | B05    |
| 07746   |        | XA337     | 19  |        |           |     |             |      |       |       |               | SPR     | 01     |          |             | RR4              | B5  |                     |                    |                    |        |
| 08284   |        | XA337     | 20  |        |           |     |             |      |       |       |               | TACX7D  | 06     |          |             | RR4              | B1  |                     |                    |                    |        |
| 00198   |        | XA337     | 21  |        | XA337     | 59  |             |      | 16B   | 9     |               | +05VIC  | 12     |          |             | RR4              | CP  |                     |                    |                    |        |
| 00197   |        | XA337     | 22  |        |           |     |             |      |       |       |               | SPF     | 01     |          |             | RR4              | CP  |                     |                    | +05VIC             | B04    |
| 07747   |        | XA337     | 23  |        |           |     |             |      |       |       |               | SPR     | 01     |          |             | RR4              | C3  |                     |                    |                    |        |
| 08272   |        | XA337     | 24  |        |           |     |             |      |       |       |               | TACX5D  | 06     |          |             | RR4              | B3  |                     |                    |                    |        |
| 07748   |        | XA337     | 25  |        |           |     |             |      |       |       |               | SPR     | 01     |          |             | RR4              | C4  |                     |                    |                    |        |
| 08293   |        | XA337     | 26  |        |           |     |             |      |       |       |               | TACY0D  | 06     |          |             | RR4              | B2  |                     |                    |                    |        |
| 01316   |        | XA337     | 27  |        |           |     |             |      |       |       |               | DNW     | 01     |          |             | RR4              |     |                     |                    |                    |        |
| 00535   |        | XA337     | 28  |        |           |     |             |      |       |       |               | +5V     | 01     |          |             | RR4              |     |                     |                    |                    |        |
| 03547   |        | XA337     | 29  |        | XA301     | 05  |             |      | 16B   | 9     |               | JDB02B4 | 05     |          |             | RR4              | C5  |                     |                    |                    |        |
| 03397   |        | XA337     | 30  |        | XA337     | 40  |             |      | 16B   | 9     |               | G33702  | 03     |          |             | RR4              | CC  |                     |                    |                    | B05    |
| 01317   |        | XA337     | 31  |        |           |     |             |      |       |       |               | DNW     | 01     |          |             | RR4              |     |                     |                    |                    |        |
| 02545   |        | XA337     | 32  |        |           |     |             |      |       |       |               | G33702  | 05     |          |             | RR4              |     |                     |                    |                    | B05    |
| 00067   |        | XA337     | 33  |        | XA337     | 34  |             |      | 16B   | 9     |               | +05RES1 | 300    |          |             | RR4              | DP  |                     |                    |                    | B04    |
| 00068   |        | XA337     | 34  |        | XA337     | 49  |             |      | 16B   | 9     |               | +05RES1 | 305    |          |             | RR4              | DP  |                     |                    |                    | B04    |
| 03989   |        | XA337     | 35  |        | XA234     | 76  |             |      | 16B   | 9     |               | KIR21B  | 03     |          |             | RR4              | D3  |                     |                    |                    |        |
| 03552   |        | XA337     | 36  |        |           |     |             |      |       |       |               | JDB03B4 | 10     |          |             | RR4              | C1  |                     |                    |                    | C07    |
| 08302   |        | XA337     | 37  |        |           |     |             |      |       |       |               | TACY1D  | 06     |          |             | RR4              | D4  |                     |                    |                    |        |
| 03540   |        | XA337     | 38  |        | XA348     | 38  |             |      | 16B   | 9     |               | JDB01B4 | 04     |          |             | RR4              | C2  |                     |                    |                    |        |
| 08319   |        | XA337     | 39  |        |           |     |             |      |       |       |               | TACY3D  | 06     |          |             | RR4              | D5  |                     |                    |                    |        |
| 03398   |        | XA337     | 40  |        | XA337     | 32  |             |      | 16B   | 9     |               | G33702  | 04     |          |             | RR4              | DC  |                     |                    |                    | B05    |
| 08331   |        | XA337     | 41  |        |           |     |             |      |       |       |               | TACY5D  | 06     |          |             | RR4              | E5  |                     |                    |                    |        |
| 07749   |        | XA337     | 42  |        |           |     |             |      |       |       |               | TACY2D  | 06     |          |             | RR4              | D1  |                     |                    |                    |        |
| 01318   |        | XA337     | 43  |        |           |     |             |      |       |       |               | DNW     | 01     |          |             | RR4              |     |                     |                    |                    |        |
| 02546   |        | XA337     | 44  |        | XA337     | 54  |             |      | 16B   | 9     |               | G33744  | 01     |          |             | RR4              |     |                     |                    |                    | B05    |
| 21344   |        | XA337     | 44  |        |           |     |             |      |       |       |               | GND     |        |          |             | RR4              |     |                     |                    |                    | B05    |
| 08332   |        | XA337     | 45  |        | XA313     | 45  |             |      | 16B   | 9     |               | TACY6D  | 01     |          |             | RR4              | E4  |                     |                    |                    |        |
| 07750   |        | XA337     | 46  |        |           |     |             |      |       |       |               | SPR     | 01     |          |             | RR4              | D2  |                     |                    |                    |        |
| 08343   |        | XA337     | 47  |        |           |     |             |      |       |       |               | TACY7D  | 06     |          |             | RR4              | E3  |                     |                    |                    |        |
| 07751   |        | XA337     | 48  |        |           |     |             |      |       |       |               | SPR     | 01     |          |             | RR4              | E2  |                     |                    |                    |        |
| 00069   |        | XA337     | 49  |        | XA337     | 50  |             |      | 16B   | 9     |               | +05RES1 | 310    |          |             | RR4              | EP  |                     |                    |                    | B04    |
| 00070   |        | XA337     | 50  |        | XA337     | 79  |             |      | 16B   | 9     |               | +05RES1 | 315    |          |             | RR4              | EP  |                     |                    |                    | B04    |
| 03810   |        | XA337     | 51  |        | XA141     | 43  |             |      | 16B   | 9     |               | JOFRAD4 | 02     |          |             | RR4              | F5  |                     |                    |                    |        |
| 03952   |        | XA337     | 52  |        | XA232     | 77  |             |      | 16B   | 9     |               | KIR11B  | 03     |          |             | RR4              | E1  |                     |                    |                    |        |
| 03530   |        | XA337     | 53  |        |           |     |             |      |       |       |               | JCPUEB4 | 02     |          |             | RR4              | F4  |                     |                    |                    |        |
| 03399   |        | XA337     | 54  |        | XA337     | 64  |             |      | 16B   | 9     |               | G33744  | 02     |          |             | RR4              | EC  |                     |                    |                    | B05    |
| 03731   |        | XA337     | 55  |        |           |     |             |      |       |       |               | JDECAD4 | 03     |          |             | RR4              | F3  |                     |                    |                    |        |
| 03583   |        | XA337     | 56  |        | XA348     | 72  |             |      | 16B   | 9     |               | JDB08B4 | 05     |          |             | RR4              | F2  |                     |                    |                    |        |
| 03874   |        | XA337     | 57  |        |           |     |             |      |       |       |               | DNW     | 01     |          |             | RR4              |     |                     |                    | KEYWAY             | C04    |
| 03875   |        | XA337     | 58  |        |           |     |             |      |       |       |               | DNW     | 01     |          |             | RR4              |     |                     |                    | KEYWAY             | C04    |
| 00195   |        | XA337     | 59  |        | XA337     | 69  |             |      | 16B   | 9     |               | +05VIC  | 13     |          |             | RR4              | FP  |                     |                    | +05VIC             | B04    |
| 00196   |        | XA337     | 60  |        |           |     |             |      |       |       |               | SPF     | 01     |          |             | RR4              | FP  |                     |                    |                    |        |
| 03568   |        | XA337     | 61  |        | XA427     | 45  |             |      | 16B   | 9     |               | JDB06B4 | 02     |          |             | RR4              | G5  |                     |                    |                    |        |
| 03576   |        | XA337     | 62  |        |           |     |             |      |       |       |               | JDB07B4 | 10     |          |             | RR4              | F1  |                     |                    |                    | C07    |
| CONNECTOR XA337 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |               |         |        |          |             |                  |     |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA337  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 236

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE |      |       |       | SPEC. INSC. | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |    | SIGNAL DESCRIPTION | ECO NO |  |             |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|------|------|-------|-------|-------------|--------|--------|----------|------|--------|------------------|-------|---------------------|-------------|----|--------------------|--------|--|-------------|
|               | PREFIX | CONNECTOR | PIN                             | POS | PREFIX | CONNECTOR | PIN | POS | WIRE | CODE | COLOR | IDENT |             |        |        |          |      |        |                  |       |                     | AND         | OR |                    |        |  |             |
| 03557         | XA337  | 63        |                                 |     | XA427  | 52        |     |     | 168  | 9    |       |       | JDB04B4     | 09     |        |          |      | RR4    | G4               |       |                     |             |    |                    |        |  |             |
| 03400         | XA337  | 64        |                                 |     | XA337  | 74        |     |     | 168  | 9    |       |       | G33744      | 03     |        |          |      | RR4    | FC               |       |                     |             |    |                    |        |  | C37         |
| 03565         | XA337  | 65        |                                 |     | XA348  | 66        |     |     | 168  | 9    |       |       | JDB05B4     | 05     |        |          |      | RR4    | G3               |       |                     |             |    |                    |        |  | R05         |
| 03589         | XA337  | 66        |                                 |     | XA348  | 22        |     |     | 168  | 9    |       |       | JDB09B4     | 05     |        |          |      | RR4    | G2               |       |                     |             |    |                    |        |  |             |
| 02547         | XA337  | 67        |                                 |     |        |           |     |     |      |      |       |       | GND         | 01     |        |          |      | RR4    |                  |       |                     |             |    |                    |        |  |             |
| 20842         | XA337  | 67        |                                 |     |        |           |     |     |      |      |       |       | +05REG      | 04     |        |          |      | RR4    |                  |       |                     |             |    |                    |        |  |             |
| 21358         | XA337  | 67        |                                 |     |        |           |     |     |      |      |       |       | G33744      | 06     |        |          |      | RR4    |                  |       |                     |             |    |                    |        |  |             |
| 01319         | XA337  | 68        |                                 |     |        |           |     |     |      |      |       |       | DNW         | 01     |        |          |      | RR4    |                  |       |                     |             |    |                    |        |  | B05         |
| 00194         | XA337  | 69        |                                 |     | XA301  | 79        |     |     | 168  | 9    |       |       | +05VIC      | 14     |        |          |      | RR4    | GP               |       |                     |             |    |                    |        |  |             |
| 00193         | XA337  | 70        |                                 |     |        |           |     |     |      |      |       |       | SPF         | 01     |        |          |      | RR4    | GP               |       |                     |             |    |                    |        |  | B04         |
| 07752         | XA337  | 71        |                                 |     | XA438  | 71        |     |     | 168  | 9    |       |       | WRSTCA4     | 02     |        |          |      | RR4    | H5               |       |                     |             |    |                    |        |  |             |
| 03534         | XA337  | 72        |                                 |     | XA427  | 38        |     |     | 168  | 9    |       |       | JDB00B4     | 04     |        |          |      | RR4    | G1               |       |                     |             |    |                    |        |  |             |
| 08320         | XA337  | 73        |                                 |     | XA312  | 71        |     |     | 168  | 9    |       |       | TACV4D      | 01     |        |          |      | RR4    | H4               |       |                     |             |    |                    |        |  |             |
| 03401         | XA337  | 74        |                                 |     | XA337  | 77        |     |     | 168  | 9    |       |       | G33744      | 04     |        |          |      | RR4    | GC               |       |                     |             |    |                    |        |  | B05         |
| 03791         | XA337  | 75        |                                 |     | XA203  | 39        |     |     | 168  | 9    |       |       | JPWF3B4     | 02     |        |          |      | RR4    | H3               |       |                     |             |    |                    |        |  |             |
| 07753         | XA337  | 76        |                                 |     | XA440  | 68        |     |     | 168  | 9    |       |       | WRSTC04     | 02     |        |          |      | RR4    | H2               |       |                     |             |    |                    |        |  |             |
| 03402         | XA337  | 77        |                                 |     | XA337  | 67        |     |     | 168  | 9    |       |       | G33744      | 05     |        |          |      | RR4    | HC               |       |                     |             |    |                    |        |  | B05         |
| 07754         | XA337  | 78        |                                 |     |        |           |     |     |      |      |       |       | KGND0B      | 03     |        |          |      | RR4    | H1               |       |                     |             |    |                    |        |  |             |
| 00071         | XA337  | 79        |                                 |     | XA337  | 80        |     |     | 168  | 9    |       |       | +05RES1     | 320    |        |          |      | RR4    | HP               |       |                     |             |    |                    |        |  | B04         |
| 00072         | XA337  | 80        |                                 |     | XA107  | 65        |     |     | PD   | 1ED  | 2     |       | +05RES1     | 325    |        |          |      | RR4    | HP               |       |                     |             |    |                    |        |  | B04         |
| 13789         | XA338  | 01        |                                 |     | XA338  | 14        |     |     | 168  | 9    |       | P     | TK1ABA      | 13     | TKBABB | 01       | 1    | TQ2    | A2               |       |                     | 02B         |    |                    |        |  |             |
| 13954         | XA338  | 01        |                                 |     |        |           |     |     |      |      |       | J     | TK1ABA      | 01     | TK1ABA | 00       | 1    | TQ2    | A2               |       |                     | 02B         |    |                    |        |  |             |
| 02548         | XA338  | 02        |                                 |     |        |           |     |     |      |      |       |       | GND         | 01     |        |          |      |        |                  |       |                     | 01A         |    |                    |        |  |             |
| 13715         | XA338  | 03        |                                 |     | XA338  | 17        |     |     | 168  | 9    |       |       | TKABAB      | 03     | TK1ACA | 01       | 1    | TQ2    | A3               |       |                     | 02A         |    |                    |        |  |             |
| 13714         | XA338  | 04        |                                 |     | XA338  | 03        |     |     | 168  | 9    |       |       | TKABAB      | 02     | TK1ABA | 01       | 1    | TQ2    | A2               |       |                     | 04A         |    |                    |        |  |             |
| 05712         | XA338  | 05        |                                 |     | XA338  | 07        |     |     | 168  | 9    |       |       | SPI029      | 04     | TK1ABA | 01       | 2    | TQ2    | A2               |       |                     | 03B         |    |                    |        |  |             |
| 13772         | XA338  | 06        |                                 |     | XA338  | 22        |     |     | 168  | 9    |       | P     | TK1AAA      | 12     | TKBAAB | 01       | 1    | TQ2    | A1               |       |                     | 05A         |    |                    |        |  |             |
| 13952         | XA338  | 06        |                                 |     |        |           |     |     |      |      |       | J     | TK1AAA      | 01     | TK1AAA | 00       | 1    | TQ2    | A1               |       |                     | 05A         |    |                    |        |  | TKBAAB BUSS |
| 05713         | XA338  | 07        |                                 |     | XA338  | 19        |     |     | 168  | 9    |       |       | SPI029      | 05     | TK1ACA | 01       | 2    | TQ2    | A3               |       |                     | 03A         |    |                    |        |  |             |
| 13713         | XA338  | 08        |                                 |     | XA338  | 04        |     |     | 168  | 9    |       |       | TKABAB      | 01     | TK1AAA | 01       | 1    | TQ2    | A1               |       |                     | 06A         |    |                    |        |  |             |
| 13806         | XA338  | 09        |                                 |     | XA244  | 72        |     |     | 168  | 9    |       | P     | TK1ACA      | 04     | TKBACB | 01       | 1    | TQ2    | A3               |       |                     | 04B         |    |                    |        |  |             |
| 13956         | XA338  | 09        |                                 |     |        |           |     |     |      |      |       | J     | TK1ACA      | 01     | TK1ACA | 00       | 1    | TQ2    | A3               |       |                     | 04B         |    |                    |        |  | TKBACB BUSS |
| 05711         | XA338  | 10        |                                 |     | XA338  | 05        |     |     | 168  | 9    |       |       | SPI029      | 03     | TK1AAA | 01       | 2    | TQ2    | A1               |       |                     | 07A         |    |                    |        |  |             |
| 13317         | XA338  | 11        |                                 |     | XA425  | 59        |     |     | 168  | 9    |       |       | TINDA0      | 03     | TINDDA | 01       | 1    | TQ2    | A4               |       |                     | 05B         |    |                    |        |  |             |
| 00536         | XA338  | 12        |                                 |     |        |           |     |     |      |      |       |       | +5V         | 01     |        |          |      |        |                  |       |                     |             |    |                    |        |  |             |
| 13331         | XA338  | 13        |                                 |     | XA333  | 46        |     |     | 168  | 9    |       |       | TINDBP      | 04     | TINDDA | 01       | 2    | TQ2    | A4               |       |                     | 06B         |    |                    |        |  | C06         |
| 13790         | XA338  | 14        |                                 |     | XA339  | 14        |     |     | 168  | 9    |       | P     | TK2ABA      | 14     | TKBABB | 02       | 1    | TQ2    | B2               |       |                     | 09A         |    |                    |        |  |             |
| 13973         | XA338  | 14        |                                 |     |        |           |     |     |      |      |       | J     | TK2ABA      | 01     | TK2ABA | 00       | 1    | TQ2    | B2               |       |                     | 09A         |    |                    |        |  | TKBABB BUSS |
| 13361         | XA338  | 15        |                                 |     | XA405  | 73        |     |     | 168  | 9    |       |       | TINDDA      | 01     | TINDDA | 01       | 1    | TQ2    | A4               |       |                     | 07B         |    |                    |        |  |             |
| 02549         | XA338  | 16        |                                 |     |        |           |     |     |      |      |       |       | GND         | 01     |        |          |      |        |                  |       |                     | 01B         |    |                    |        |  |             |
| 13716         | XA338  | 17        |                                 |     | XA338  | 18        |     |     | 168  | 9    |       |       | TKABAB      | 04     | TK2ACA | 01       | 1    | TQ2    | B3               |       |                     | 08B         |    |                    |        |  |             |
| 13717         | XA338  | 18        |                                 |     | XA338  | 24        |     |     | 168  | 9    |       |       | TKABAB      | 05     | TK2ABA | 01       | 1    | TQ2    | B2               |       |                     | 10A         |    |                    |        |  |             |
| 05714         | XA338  | 19        |                                 |     | XA338  | 20        |     |     | 168  | 9    |       |       | SPI029      | 06     | TK2ACA | 01       | 2    | TQ2    | B3               |       |                     | 09B         |    |                    |        |  |             |
| 05715         | XA338  | 20        |                                 |     | XA339  | 29        |     |     | 168  | 9    |       |       | SPI029      | 07     | TK2ABA | 01       | 2    | TQ2    | B2               |       |                     | 11A         |    |                    |        |  |             |
| 13805         | XA338  | 21        |                                 |     | XA338  | 09        |     |     | 168  | 9    |       | P     | TK2ACA      | 03     | TKBACB | 02       | 1    | TQ2    | B3               |       |                     | 10B         |    |                    |        |  |             |
| 13975         | XA338  | 21        |                                 |     |        |           |     |     |      |      |       | J     | TK2ACA      | 01     | TK2ACA | 00       | 1    | TQ2    | B3               |       |                     | 10B         |    |                    |        |  | TKBACB BUSS |
| 13773         | XA338  | 22        |                                 |     | XA338  | 38        |     |     | 168  | 9    |       | P     | TK2AAA      | 13     | TKBAAB | 02       | 1    | TQ2    | B1               |       |                     | 12A         |    |                    |        |  |             |
| 13971         | XA338  | 22        |                                 |     |        |           |     |     |      |      |       | J     | TK2AAA      | 01     | TK2AAA | 00       | 1    | TQ2    | B1               |       |                     | 12A         |    |                    |        |  | TKBAAB BUSS |
| CONNECTOR     |        | XA338     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |      |      |       |       |             |        |        |          |      |        |                  |       |                     |             |    |                    |        |  |             |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA338  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 237

| RECORD NUMBER | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | POS | PREFIX | CONNECTOR | PIN | POS | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05744         |        | XA338     | 23  |     | XA344  | 20        |     |     | 16B         | 9    |       |       | SPI030        | 02     |        |          | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 13718         |        | XA338     | 24  |     | XA338  | 29        |     |     | 16B         | 9    |       |       | TKABAB        | 06     | TK2AAA |          | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 05718         |        | XA338     | 25  |     | XA338  | 31        |     |     | 16B         | 9    |       |       | SPI029        | 10     |        |          | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 05717         |        | XA338     | 26  |     | XA338  | 25        |     |     | 16B         | 9    |       |       | SPI029        | 09     | TK2AAA |          | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 07914         |        | XA338     | 27  |     |        |           |     |     |             |      |       |       | SPO           | 01     |        |          | 00   | 1      | TQ2              | B4    |                     | 13B                |                    |        |
| 00537         |        | XA338     | 28  |     |        |           |     |     |             |      |       |       | +5V           | 01     |        |          |      |        | TQ2              |       |                     |                    |                    |        |
| 13719         |        | XA338     | 29  |     | XA338  | 34        |     |     | 16B         | 9    |       |       | TKABAB        | 07     | TK3ACA |          | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 13793         |        | XA338     | 30  |     | XA338  | 46        |     |     | 16B         | 9    |       | P     | TK3ABA        | 17     | TKBABB |          | 03   | 1      | TQ2              | C2    |                     | 15A                |                    |        |
| 13999         |        | XA338     | 30  |     |        |           |     |     |             |      |       | J     | TK3ABA        | 01     | TK3ABA |          | 01   | 1      | TQ2              | C2    |                     | 15A                | TKBABB             | BUSS   |
| 05719         |        | XA338     | 31  |     | XA338  | 35        |     |     | 16B         | 9    |       |       | SPI029        | 11     | TK3ACA |          | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 02550         |        | XA338     | 32  |     |        |           |     |     |             |      |       |       | GND           | 01     |        |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 13804         |        | XA338     | 33  |     | XA338  | 21        |     |     | 16B         | 9    |       | P     | TK3ACA        | 02     | TKBACB |          | 03   | 1      | TQ2              | C3    |                     | 16B                | TKBACB             | BUSS   |
| 14001         |        | XA338     | 33  |     |        |           |     |     |             |      |       | J     | TK3ACA        | 01     | TK3ACA |          | 00   | 1      | TQ2              | C3    |                     | 16B                | TKBACB             | BUSS   |
| 13720         |        | XA338     | 34  |     | XA338  | 40        |     |     | 16B         | 9    |       |       | TKABAB        | 08     | TK3ABA |          | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 05720         |        | XA338     | 35  |     | XA338  | 36        |     |     | 16B         | 9    |       |       | SPI029        | 12     |        |          | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 05721         |        | XA338     | 36  |     | XA338  | 42        |     |     | 16B         | 9    |       |       | SPI029        | 13     | TK3ABA |          | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 05762         |        | XA338     | 37  |     | XA339  | 41        |     |     | 16B         | 9    |       |       | SPI030        | 20     |        |          | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 13774         |        | XA338     | 38  |     | XA338  | 52        |     |     | 16B         | 9    |       | P     | TK3AAA        | 14     | TKBAAB |          | 03   | 1      | TQ2              | C1    |                     | 18A                | TKBAAB             | BUSS   |
| 13997         |        | XA338     | 38  |     |        |           |     |     |             |      |       | J     | TK3AAA        | 01     | TK3AAA |          | 00   | 1      | TQ2              | C1    |                     | 18A                | TKBAAB             | BUSS   |
| 07915         |        | XA338     | 39  |     |        |           |     |     |             |      |       |       | SPO           | 01     |        |          | 00   | 1      | TQ2              | C4    |                     | 19B                |                    |        |
| 13721         |        | XA338     | 40  |     | XA338  | 41        |     |     | 16B         | 9    |       |       | TKABAB        | 09     | TK3AAA |          | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 13722         |        | XA338     | 41  |     | XA338  | 48        |     |     | 16B         | 9    |       |       | TKABAB        | 10     | TK4ACA |          | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 05722         |        | XA338     | 42  |     | XA338  | 43        |     |     | 16B         | 9    |       |       | SPI029        | 14     | TK3AAA |          | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 05723         |        | XA338     | 43  |     | XA338  | 49        |     |     | 16B         | 9    |       |       | SPI029        | 15     | TK4ACA |          | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02551         |        | XA338     | 44  |     |        |           |     |     |             |      |       |       | GND           | 01     |        |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 13803         |        | XA338     | 45  |     | XA338  | 33        |     |     | 16B         | 9    |       | P     | TK4ACA        | 01     | TKBACB |          | 04   | 1      | TQ2              | D3    |                     | 24B                | TKBACB             | BUSS   |
| 14012         |        | XA338     | 45  |     |        |           |     |     |             |      |       | J     | TK4ACA        | 01     | TK4ACA |          | 00   | 1      | TQ2              | D3    |                     | 24B                | TKBACB             | BUSS   |
| 13794         |        | XA338     | 46  |     | XA339  | 42        |     |     | 16B         | 9    |       | P     | TK4ABA        | 13     | TKBABB |          | 04   | 1      | TQ2              | D2    |                     | 21A                |                    |        |
| 14010         |        | XA338     | 46  |     |        |           |     |     |             |      |       | J     | TK4ABA        | 01     | TK4ABA |          | 00   | 1      | TQ2              | D2    |                     | 21A                | TKBABB             | BUSS   |
| 05761         |        | XA338     | 47  |     | XA338  | 37        |     |     | 16B         | 9    |       |       | SPI030        | 19     |        |          | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 13723         |        | XA338     | 48  |     | XA338  | 54        |     |     | 16B         | 9    |       |       | TKABAB        | 11     | TK4ABA |          | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 05724         |        | XA338     | 49  |     | XA338  | 50        |     |     | 16B         | 9    |       |       | SPI029        | 16     |        |          | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 05725         |        | XA338     | 50  |     | XA338  | 56        |     |     | 16B         | 9    |       |       | SPI029        | 17     | TK4ABA |          | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 07916         |        | XA338     | 51  |     |        |           |     |     |             |      |       |       | SPO           | 01     |        |          | 00   | 1      | TQ2              | D4    |                     | 27B                |                    |        |
| 13775         |        | XA338     | 52  |     | XA405  | 72        |     |     | 16B         | 9    |       | P     | TK4AAA        | 15     | TKBAAB |          | 04   | 1      | TQ2              | D1    |                     | 24A                | TKBAAB             | BUSS   |
| 14008         |        | XA338     | 52  |     |        |           |     |     |             |      |       | J     | TK4AAA        | 01     | TK4AAA |          | 00   | 1      | TQ2              | D1    |                     | 24A                | TKBAAB             | BUSS   |
| 13931         |        | XA338     | 53  |     | XA338  | 59        |     |     | 16B         | 9    |       |       | TK01BP        | 03     | TK3DAA |          | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 13724         |        | XA338     | 54  |     | XA335  | 60        |     |     | 16B         | 9    |       |       | TKABAB        | 12     | TK4AAA |          | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 05727         |        | XA338     | 55  |     | XA338  | 61        |     |     | 16B         | 9    |       |       | SPI029        | 19     | TK3DAA |          | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 05726         |        | XA338     | 56  |     | XA338  | 55        |     |     | 16B         | 9    |       |       | SPI029        | 18     | TK4AAA |          | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 13740         |        | XA338     | 57  |     | XA338  | 60        |     |     | 16B         | 9    |       | P     | TK3DAA        | 13     | TKACAB |          | 03   | 1      | TQ2              | E3    |                     | 30B                | TKACAB             | BUSS   |
| 14003         |        | XA338     | 57  |     |        |           |     |     |             |      |       | J     | TK3DAA        | 01     | TK3DAA |          | 00   | 1      | TQ2              | E3    |                     | 30B                | TKACAB             | BUSS   |
| 02552         |        | XA338     | 58  |     |        |           |     |     |             |      |       |       | GND           | 01     |        |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 13932         |        | XA338     | 59  |     | XA338  | 62        |     |     | 16B         | 9    |       |       | TK01BP        | 04     | TK4DAA |          | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 13741         |        | XA338     | 60  |     | XA338  | 63        |     |     | 16B         | 9    |       | P     | TK2DAA        | 14     | TKACAB |          | 01   | 1      | TQ2              | E2    |                     | 28A                |                    |        |
| 13977         |        | XA338     | 60  |     |        |           |     |     |             |      |       | J     | TK2DAA        | 01     | TK2DAA |          | 00   | 1      | TQ2              | E2    |                     | 28A                | TKACAB             | BUSS   |
| 05728         |        | XA338     | 61  |     | XA338  | 64        |     |     | 16B         | 9    |       |       | SPI029        | 20     | TK4DAA |          | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 13933         |        | XA338     | 62  |     | XA414  | 48        |     |     | 16B         | 9    |       |       | TK01BP        | 05     | TK2DAA |          | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 13742         |        | XA338     | 63  |     |        |           |     |     |             |      |       | P     | TK4DAA        | 15     | TKACAB |          | 04   | 1      | TQ2              | E4    |                     | 33B                | TKACAB             | BUSS   |
| 14014         |        | XA338     | 63  |     |        |           |     |     |             |      |       | J     | TK4DAA        | 01     | TK4DAA |          | 00   | 1      | TQ2              | E4    |                     | 33B                | TKACAB             | BUSS   |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA338  
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| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO  | EQUATION | 3 POS  | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|------|-------------|------|-------|--------|---------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |         |          |        |        |                  |       |                     |                    |                    |                  |
| 05729         |        | XA338     | 64                              |        | XA338     | 76  |      |             | 16B  | 9     |        | SPI029  | 21       | TK2DAA | 01     | 2                | TQ2   | E2                  |                    | 30A                | 005              |
| 05766         |        | XA338     | 65                              |        | XA338     | 78  |      |             | 16B  | 9     |        | SPI030  | 24       |        | 01     | 1                | TQ2   | F3                  |                    | 34B                | 005              |
| 07917         |        | XA338     | 66                              |        |           |     |      |             |      |       |        | TCPD6A  | 02       | TCPD6A | 7/0    | 1                | TQ2   | E1                  |                    | 31A                | 005              |
| 02553         |        | XA338     | 67                              |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | TQ2   |                     |                    | 40A                |                  |
| 05730         |        | XA338     | 68                              |        |           |     |      |             |      |       |        | TCPD10  | 03       | TCPD6A | 01     | 1                | TQ2   | E1                  |                    | 32A                | 005              |
| 07918         |        | XA338     | 69                              |        |           |     |      |             |      |       |        | SPO     | 01       |        | 00     | 1                | TQ2   | F3                  |                    | 35A                |                  |
| 05768         |        | XA338     | 70                              |        | XA423     | 55  |      |             | 16B  | 9     |        | TMO4BP  | 04       | TCPD6A | 01     | 2                | TQ2   | E1                  |                    | 33A                | 005              |
| 05767         |        | XA338     | 71                              |        | XA338     | 68  |      |             | 16B  | 9     |        | TCPD10  | 02       | TCPD5A | 01     | 1                | TQ2   | F2                  |                    | 36A                | 005              |
| 07919         |        | XA338     | 72                              |        |           |     |      |             |      |       |        | TCPD5A  | 02       | TCPD5A | 00     | 1                | TQ2   | F2                  |                    | 34A                | 005              |
| 05733         |        | XA338     | 73                              |        | XA413     | 62  |      |             | 16B  | 9     |        | TMO4B0  | 045      | TCPD5A | 01     | 2                | TQ2   | F2                  |                    | 36B                | 005              |
| 05732         |        | XA338     | 74                              |        | XA338     | 77  |      |             | 16B  | 9     |        | SPI029  | 24       |        | 01     | 2                | TQ2   | F3                  |                    | 35B                | 005              |
| 07920         |        | XA338     | 75                              |        |           |     |      |             |      |       |        | SPO     | 01       |        | 00     | 1                | TQ2   | F1                  |                    | 37B                |                  |
| 05731         |        | XA338     | 76                              |        | XA338     | 74  |      |             | 16B  | 9     |        | SPI029  | 23       |        | 01     | 1                | TQ2   | F4                  |                    | 37A                |                  |
| 05734         |        | XA338     | 77                              |        | XA335     | 77  |      |             | 16B  | 9     |        | SPI029  | 26       |        | 01     | 1                | TQ2   | F1                  |                    | 38B                |                  |
| 05769         |        | XA338     | 78                              |        | XA338     | 79  |      |             | 16B  | 9     |        | SPI030  | 27       |        | 01     | 2                | TQ2   | F4                  |                    | 38A                |                  |
| 05770         |        | XA338     | 79                              |        | XA335     | 74  |      |             | 16B  | 9     |        | SPI030  | 28       |        | 01     | 2                | TQ2   | F1                  |                    | 39B                | 005              |
| 07921         |        | XA338     | 80                              |        |           |     |      |             |      |       |        | SPO     | 01       |        | 00     | 1                | TQ2   | F4                  |                    | 39A                |                  |
| 13927         |        | XA339     | 01                              |        | XA341     | 06  |      |             | 16B  | 9     |        | TK000A  | 02       | TKICBN | 01     | 1                | TDD   | BN                  |                    | 02B                |                  |
| 02554         |        | XA339     | 02                              |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | TDD   |                     |                    | 01B                |                  |
| 16368         |        | XA339     | 03                              |        | XA340     | 08  |      |             | 16B  | 9     |        | TS23BP  | 01       | TKICBQ | 01     | 1                | TDD   | BQ                  |                    | 02A                |                  |
| 13847         |        | XA339     | 04                              |        |           |     |      |             |      |       |        | TKICIA  | 02       | TKICBP | 01     | 1                | TDD   | BP                  |                    | 04A                |                  |
| 17333         |        | XA339     | 05                              |        | XA213     | 27  |      |             | 16B  | 9     |        | UICSM0  | 04       | TKICBI | 01     | 1                | TDD   | BI                  |                    | 03B                |                  |
| 05710         |        | XA339     | 06                              |        | XA338     | 10  |      |             | 16B  | 9     |        | SPI029  | 02       | TK01BP | 01     | 1                | TDD   | AP                  |                    | 05A                |                  |
| 20502         |        | XA339     | 07                              |        |           |     |      |             |      |       | M      | TKICBQ  | 01       | TKICBQ | 00     | 1                | TDD   | BQ                  |                    | 03A                |                  |
| 13942         |        | XA339     | 08                              |        |           |     |      |             |      |       |        | TK010A  | 02       | TK01BI | 01     | 1                | TDD   | AI                  |                    | 06A                |                  |
| 13845         |        | XA339     | 09                              |        |           |     |      |             |      |       |        | TKICBP  | 02       | TKICBP | 00     | 1                | TDD   | BP                  |                    | 04B                | IOC STEP MODE CO |
| 20530         |        | XA339     | 10                              |        |           |     |      |             |      |       |        | TS0CG0  | 02       | TK01BN | 01     | 1                | TDD   | AN                  |                    | 07A                |                  |
| 13930         |        | XA339     | 11                              |        | XA338     | 53  |      |             | 16B  | 9     |        | TK01BP  | 02       | TK01BP | 00     | 1                | TDD   | AP                  |                    | 05B                | IOC CLK GEN BIT  |
| 00538         |        | XA339     | 12                              |        |           |     |      |             |      |       |        | +5V     | 01       |        |        |                  | TDD   |                     |                    |                    |                  |
| 13938         |        | XA339     | 13                              |        | XA340     | 10  |      |             | 16B  | 9     |        | TK01BQ  | 04       | TK01BQ | 00     | 1                | TDD   | AQ                  |                    | 06B                |                  |
| 13791         |        | XA339     | 14                              |        | XA339     | 30  |      |             | 16B  | 9     |        | TKBABB  | 15       | TS00BN | 01     | 1                | TDD   | DN                  |                    | 09A                |                  |
| 13943         |        | XA339     | 15                              |        | XA341     | 09  |      |             | 16B  | 9     |        | TK011A  | 01       | TK01BQ | 01     | 1                | TDD   | AQ                  |                    | 07B                |                  |
| 02555         |        | XA339     | 16                              |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | TDD   |                     |                    | 20B                |                  |
| 14252         |        | XA339     | 17                              |        | XA350     | 24  |      |             | 16B  | 9     |        | TMRUBA4 | 30       | TS00BQ | 01     | 1                | TDD   | DQ                  |                    | 08B                |                  |
| 15756         |        | XA339     | 18                              |        | XA344     | 11  |      |             | 16B  | 9     |        | TS0010  | 02       | TS00BI | 01     | 1                | TDD   | DI                  |                    | 10A                |                  |
| 15745         |        | XA339     | 19                              |        | XA340     | 13  |      |             | 16B  | 9     |        | TS00BQ  | 02       | TS00BQ | 00     | 1                | TDD   | DQ                  |                    | 09B                | MASTER RESET SEL |
| 15791         |        | XA339     | 20                              |        | XA342     | 40  |      |             | 16B  | 9     |        | TS01CA  | 01       | TS00BP | 01     | 1                | TDD   | DP                  |                    | 11A                |                  |
| 15740         |        | XA339     | 21                              |        | XA342     | 29  |      |             | 16B  | 9     |        | TS00BP  | 05       | TS00BP | 00     | 1                | TDD   | DP                  |                    | 10B                | PRERESET S00     |
| 13621         |        | XA339     | 22                              |        |           |     |      |             |      |       |        | TI231A  | 03       | TE0PBP | 01     | 1                | TDD   | CP                  |                    | 12A                |                  |
| 12611         |        | XA339     | 23                              |        | XA340     | 66  |      |             | 16B  | 9     |        | TE0PBP  | 01       | TE0PBP | 00     | 1                | TDD   | CP                  |                    | 11B                | PRERESET INPUT   |
| 14742         |        | XA339     | 24                              |        | XA342     | 34  |      |             | 16B  | 9     |        | TPGND A | 01       | TE0PBI | 01     | 1                | TDD   | CI                  |                    | 13A                |                  |
| 12614         |        | XA339     | 25                              |        |           |     |      |             |      |       |        | TE0PBQ  | 02       | TE0PBQ | 00     | 1                | TDD   | CQ                  |                    | 12B                | INPUT PARITY LIN |
| 16619         |        | XA339     | 26                              |        | XA236     | 66  |      |             | 16B  | 9     |        | TTESPA  | 01       | TE0PBN | 01     | 1                | TDD   | CN                  |                    | 14A                |                  |
| 10727         |        | XA339     | 27                              |        |           |     |      |             |      |       |        | TDIPAA  | 02       | TE0PBQ | 01     | 1                | TDD   | CQ                  |                    | 13B                |                  |
| 00539         |        | XA339     | 28                              |        |           |     |      |             |      |       |        | +5V     | 01       |        |        |                  | TDD   |                     |                    |                    |                  |
| 05716         |        | XA339     | 29                              |        | XA338     | 26  |      |             | 16B  | 9     |        | SPI029  | 08       | TS02BQ | 01     | 1                | TDD   | FQ                  |                    | 14B                |                  |
| 13792         |        | XA339     | 30                              |        | XA338     | 30  |      |             | 16B  | 9     |        | TKBABB  | 16       | TS02BN | 01     | 1                | TDD   | FN                  |                    | 15A                |                  |
| 15824         |        | XA339     | 31                              |        | XA345     | 70  |      |             | 16B  | 9     |        | TS02BQ  | 03       | TS02BQ | 00     | 1                | TDD   | FQ                  |                    | 15B                | PRESET S02       |
| CONNECTOR     |        | XA339     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |             |      |       |        |         |          |        |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA339  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 239

| RECORD NUMBER | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | PLAN | LOAD OF POWER PLANE | TEST POINTS       | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|------|---------------------|-------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | PLD | PREFIX | CONNECTOR | PIN | PLD | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |      |                     |                   |                    |        |
| 02556         |        | XA339     | 32  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      | TDD    |                  |      | 21B                 |                   |                    |        |
| 15820         |        | XA339     | 33  |     | XA345  | 20        |     |     |             | 16B  | 9     |       | TS02BP  | 04     | TS02BP   | 03   | 1      | TDD              | FP   | 16B                 | MASTER RESET      |                    |        |
| 15840         |        | XA339     | 34  |     | XA341  | 51        |     |     |             | 16B  | 9     |       | TS0230  | 01     | TS02BI   | 01   | 1      | TDD              | FI   | 16A                 |                   |                    |        |
| 15784         |        | XA339     | 35  |     |        |           |     |     |             |      |       |       | TS01BP  | 03     | TS01BP   | 00   | 1      | TDD              | EP   | 17B                 | MASTER RESET S01  |                    |        |
| 14206         |        | XA339     | 36  |     | XA339  | 38        |     |     |             | 16B  | 9     |       | TMPUAA4 | 21     | TS02BP   | 01   | 1      | TDD              | FP   | 17A                 |                   |                    |        |
| 15788         |        | XA339     | 37  |     | XA136  | 70        |     |     |             | 16B  | 9     |       | TS01BQ  | 04     | TS01BQ   | 00   | 1      | TDD              | EQ   | 18B                 | BURST COM NOT REM |                    |        |
| 14207         |        | XA339     | 38  |     | XA339  | 50        |     |     |             | 16B  | 9     |       | TMRUAA4 | 22     | TS01BP   | 01   | 1      | TDD              | EP   | 18A                 |                   |                    |        |
| 08876         |        | XA339     | 39  |     | XA330  | 37        |     |     |             | 16B  | 9     |       | TBHLTA  | 01     | TS01BQ   | 01   | 1      | TDD              | EQ   | 19B                 |                   |                    |        |
| 15805         |        | XA339     | 40  |     | XA335  | 80        |     |     |             | 16B  | 9     |       | TS0120  | 01     | TS01BI   | 01   | 1      | TDD              | EI   | 19A                 |                   | D05                |        |
| 05763         |        | XA339     | 41  |     | XA339  | 53        |     |     |             | 16B  | 9     |       | SPI030  | 21     | TS04BQ   | 01   | 1      | TDD              | HQ   | 22B                 |                   |                    |        |
| 13795         |        | XA339     | 42  |     | XA339  | 46        |     |     |             | 16B  | 9     |       | TKBABB  | 19     | TS01BN   | 01   | 1      | TDD              | EN   | 20A                 |                   |                    |        |
| 15877         |        | XA339     | 43  |     | XA343  | 14        |     |     |             | 16B  | 9     |       | TS04BQ  | 05     | TS04BQ   | 00   | 1      | TDD              | HQ   | 23B                 | PRESET S04        |                    |        |
| 02557         |        | XA339     | 44  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      | TDD    |                  |      | 27A                 |                   |                    |        |
| 15866         |        | XA339     | 45  |     | XA342  | 61        |     |     |             | 16B  | 9     |       | TS04BP  | 01     | TS04BP   | 00   | 1      | TDD              | HP   | 24B                 | MASTER RESET S0   |                    |        |
| 13796         |        | XA339     | 46  |     | XA339  | 56        |     |     |             | 16B  | 9     |       | TKBABB  | 20     | TS04BN   | 01   | 1      | TDD              | HN   | 21A                 |                   |                    |        |
| 15844         |        | XA339     | 47  |     | XA330  | 36        |     |     |             | 16B  | 9     |       | TS03BP  | 03     | TS03BP   | 00   | 1      | TDD              | GP   | 25B                 | MASTER RESET S    |                    |        |
| 15884         |        | XA339     | 48  |     | XA341  | 60        |     |     |             | 16B  | 9     |       | TS0410  | 01     | TS04BI   | 01   | 1      | TDD              | HI   | 22A                 |                   |                    |        |
| 15849         |        | XA339     | 49  |     | XA349  | 13        |     |     |             | 16B  | 9     |       | TS03BQ  | 03     | TS03BQ   | 00   | 1      | TDD              | GQ   | 26B                 | PRESET            |                    |        |
| 14208         |        | XA339     | 50  |     | XA339  | 52        |     |     |             | 16B  | 9     |       | TMRUAA4 | 23     | TS04BP   | 01   | 1      | TDD              | HP   | 23A                 |                   |                    |        |
| 05786         |        | XA339     | 51  |     | XA341  | 50        |     |     |             | 16B  | 9     |       | SPI031  | 07     | TS03BQ   | 01   | 1      | TDD              | GQ   | 27B                 |                   |                    |        |
| 14209         |        | XA339     | 52  |     | XA339  | 64        |     |     |             | 16B  | 9     |       | TMRUAA4 | 24     | TS03BP   | 01   | 1      | TDD              | GP   | 24A                 |                   |                    |        |
| 05764         |        | XA339     | 53  |     | XA339  | 65        |     |     |             | 16B  | 9     |       | SPI030  | 22     | TS06BQ   | 01   | 1      | TDD              | KQ   | 28B                 |                   |                    |        |
| 15859         |        | XA339     | 54  |     | XA341  | 66        |     |     |             | 16B  | 9     |       | TS0300  | 02     | TS03BI   | 01   | 1      | TDD              | GI   | 25A                 |                   |                    |        |
| 15920         |        | XA339     | 55  |     | XA333  | 34        |     |     |             | 16B  | 9     |       | TS06BQ  | 04     | TS06BQ   | 00   | 1      | TDD              | KQ   | 29B                 | PRESET S06        |                    |        |
| 13797         |        | XA339     | 56  |     | XA339  | 60        |     |     |             | 16B  | 9     |       | TKBABB  | 21     | TS03BN   | 01   | 1      | TDD              | GN   | 26A                 |                   |                    |        |
| 15911         |        | XA339     | 57  |     | XA342  | 55        |     |     |             | 16B  | 9     |       | TS06BP  | 01     | TS06BP   | 00   | 1      | TDD              | KP   | 30B                 | MASTER RESET S06  |                    |        |
| 02558         |        | XA339     | 58  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      | TDD    |                  |      | 40A                 |                   |                    |        |
| 15888         |        | XA339     | 59  |     | XA342  | 62        |     |     |             | 16B  | 9     |       | TS05BP  | 01     | TS05BP   | 00   | 1      | TDD              | JP   | 31B                 | MASTER RESET S05  |                    |        |
| 13798         |        | XA339     | 60  |     | XA339  | 70        |     |     |             | 16B  | 9     |       | TKBABB  | 22     | TS06BN   | 01   | 1      | TDD              | KN   | 28A                 |                   |                    |        |
| 15897         |        | XA339     | 61  |     | XA327  | 34        |     |     |             | 16B  | 9     |       | TS05BQ  | 04     | TS05BQ   | 00   | 1      | TDD              | JQ   | 32B                 | PRESET S05        |                    |        |
| 15927         |        | XA339     | 62  |     | XA341  | 63        |     |     |             | 16B  | 9     |       | TS0600  | 01     | TS06BI   | 01   | 1      | TDD              | KI   | 29A                 |                   |                    |        |
| 05784         |        | XA339     | 63  |     | XA340  | 59        |     |     |             | 16B  | 9     |       | SPI031  | 05     | TS05BQ   | 01   | 1      | TDD              | JQ   | 33B                 |                   |                    |        |
| 14210         |        | XA339     | 64  |     | XA339  | 66        |     |     |             | 16B  | 9     |       | TMRUAA4 | 25     | TS06BP   | 01   | 1      | TDD              | KP   | 30A                 |                   |                    |        |
| 05765         |        | XA339     | 65  |     | XA338  | 65        |     |     |             | 16B  | 9     |       | SPI030  | 23     | TS08BQ   | 01   | 1      | TDD              | MQ   | 34B                 |                   |                    |        |
| 14211         |        | XA339     | 66  |     | XA339  | 75        |     |     |             | 16B  | 9     |       | TMRUAA4 | 26     | TS05BP   | 01   | 1      | TDD              | JP   | 31A                 |                   |                    |        |
| 02559         |        | XA339     | 67  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      | TDD    |                  |      | 40B                 |                   |                    |        |
| 15905         |        | XA339     | 68  |     | XA341  | 57        |     |     |             | 16B  | 9     |       | TS0500  | 01     | TS05BI   | 01   | 1      | TDD              | JI   | 32A                 |                   |                    |        |
| 15972         |        | XA339     | 69  |     | XA351  | 75        |     |     |             | 16B  | 9     |       | TS08BP  | 01     | TS08BP   | 00   | 1      | TDD              | MP   | 35A                 | MASTER RESET S0   |                    |        |
| 13799         |        | XA339     | 70  |     | XA339  | 72        |     |     |             | 16B  | 9     |       | TKBABB  | 23     | TS05BN   | 01   | 1      | TDD              | JN   | 33A                 |                   |                    |        |
| 15983         |        | XA339     | 71  |     | XA342  | 80        |     |     |             | 16B  | 9     |       | TS0800  | 01     | TS08BI   | 01   | 1      | TDD              | MI   | 36A                 |                   |                    |        |
| 13800         |        | XA339     | 72  |     | XA339  | 79        |     |     |             | 16B  | 9     |       | TKBABB  | 24     | TS08BN   | 01   | 1      | TDD              | MN   | 34A                 |                   |                    |        |
| 14251         |        | XA339     | 73  |     | XA339  | 17        |     |     |             | 16B  | 9     |       | TMRUBA4 | 29     | TS08BP   | 01   | 1      | TDD              | MP   | 36B                 |                   |                    |        |
| 15980         |        | XA339     | 74  |     | XA326  | 11        |     |     |             | 16B  | 9     |       | TS08BQ  | 05     | TS08BQ   | 00   | 1      | TDD              | MQ   | 35B                 | PRESET S08        |                    |        |
| 14212         |        | XA339     | 75  |     | XA318  | 61        |     |     |             | 16B  | 9     |       | TMRUAA4 | 27     | TS07BP   | 01   | 1      | TDD              | LP   | 37B                 |                   |                    |        |
| 15933         |        | XA339     | 76  |     | XA342  | 59        |     |     |             | 16B  | 9     |       | TS07BP  | 03     | TS07BP   | 00   | 1      | TDD              | LP   | 37A                 | MASTER RESET S07  |                    |        |
| 15945         |        | XA339     | 77  |     | XA344  | 35        |     |     |             | 16B  | 9     |       | TS0700  | 01     | TS07BI   | 01   | 1      | TDD              | LI   | 38B                 |                   |                    |        |
| 15943         |        | XA339     | 78  |     | XA327  | 71        |     |     |             | 16B  | 9     |       | TS07BQ  | 07     | TS07BQ   | 00   | 1      | TDD              | LQ   | 38A                 | PRESET S07        |                    |        |
| 13801         |        | XA339     | 79  |     | XA317  | 79        |     |     |             | 16B  | 9     |       | TKBABB  | 25     | TS07BN   | 01   | 1      | TDD              | LN   | 39B                 |                   |                    |        |
| 05783         |        | XA339     | 80  |     | XA339  | 63        |     |     |             | 16B  | 9     |       | SPI031  | 04     | TS07BQ   | 01   | 1      | TDD              | LQ   | 39A                 |                   |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA340  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 240

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SPEC. INST. MESS. | SIGNAL | SEQ NO | EQUATION | TERM | FACTORY | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | TCO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|-------------------|--------|--------|----------|------|---------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | DI   | MULTI GROUP | CODE | COLOR |                   |        |        |          |      |         |                  |       |                     |                    |                    |        |
| 15603   |        | XA340     | 01  |        | XA140     | 53  |      |             | 16B  | 9     |                   | YSAIB0 | 02     | Y0FS1A   | 01   | 1       | TT3              | A2    |                     | 02B                |                    |        |
| 02560   |        | XA340     | 02  |        |           |     |      |             |      |       |                   | GND    | 01     |          |      |         | TT3              |       |                     | 01B                |                    |        |
| 17041   |        | XA340     | 03  |        | XA443     | 69  |      |             | 16B  | 9     |                   | Y0FRB0 | 05     | Y0FS1A   | 01   | 2       | TT3              | A2    |                     | 02A                |                    |        |
| 13846   |        | XA340     | 04  |        | XA339     | 04  |      |             | 16B  | 9     |                   | TKIC1A | 01     | TKIC1A   | 00   | 1       | TT3              | A1    |                     | 04A                | STOP IGC CLK       |        |
| 16455   |        | XA340     | 05  |        | XA244     | 74  |      |             | 16B  | 9     |                   | YS28BQ | 03     | Y0FS1A   | 01   | 3       | TT3              | A2    |                     | 03B                |                    |        |
| 13924   |        | XA340     | 06  |        | XA238     | 74  |      |             | 16B  | 9     |                   | TK00BQ | 02     | TKIC1A   | 01   | 1       | TT3              | A1    |                     | 05A                |                    |        |
| 17061   |        | XA340     | 07  |        |           |     |      |             |      |       |                   | Y0FS1A | 04     | Y0FS1A   | 00   | 1       | TT3              | A2    |                     | 03A                | IOC STEP MODE .S   |        |
| 16369   |        | XA340     | 08  |        | XA350     | 11  |      |             | 16B  | 9     |                   | YS23BP | 02     | TKIC1A   | 01   | 2       | TT3              | A1    |                     | 06A                |                    |        |
| 13652   |        | XA340     | 09  |        | XA329     | 17  |      |             | 16B  | 9     |                   | YI3I1A | 08     | YS009A   | 01   | 1       | TT3              | A3    |                     | 04B                |                    |        |
| 13939   |        | XA340     | 10  |        | XA341     | 04  |      |             | 16B  | 9     |                   | TK01BQ | 05     | TKIC1A   | 01   | 3       | TT3              | A1    |                     | 07A                |                    |        |
| 15802   |        | XA340     | 11  |        | XA345     | 35  |      |             | 16B  | 9     |                   | YS012A | 01     | YS009A   | 01   | 2       | TT3              | A3    |                     | 05B                |                    |        |
| 00540   |        | XA340     | 12  |        |           |     |      |             |      |       |                   | +5V    | 01     |          |      |         | TT3              |       |                     |                    | 005                |        |
| 15746   |        | XA340     | 13  |        | XA341     | 48  |      |             | 16B  | 9     |                   | YSJ0BQ | 03     | YS009A   | 01   | 3       | TT3              | A3    |                     | 06B                |                    |        |
| 12826   |        | XA340     | 14  |        |           |     |      |             |      |       |                   | TE25C0 | 06     | TBLP1A   | 01   | 1       | TT3              | B2    |                     | 09A                |                    |        |
| 15780   |        | XA340     | 15  |        | XA344     | 10  |      |             | 16B  | 9     |                   | YS009A | 00     | YS009A   | 00   | 1       | TT3              | A3    |                     | 07B                | TE 08-31 CLOCK-A   |        |
| 02561   |        | XA340     | 16  |        |           |     |      |             |      |       |                   | GND    | 01     |          |      |         | TT3              |       |                     | 21B                |                    |        |
| 09513   |        | XA340     | 17  |        | XA340     | 23  |      |             | 16B  | 9     |                   | TCBCA0 | 06     | TBLP1A   | 01   | 2       | TT3              | B2    |                     | 08B                |                    |        |
| 08738   |        | XA340     | 18  |        | XA340     | 22  |      |             | 16B  | 9     |                   | TBB7A0 | 05     | TBLP1A   | 01   | 3       | TT3              | B2    |                     | 10A                |                    |        |
| 08970   |        | XA340     | 19  |        |           |     |      |             |      |       |                   | TBLP1A | 02     | TBLP1A   | 00   | 1       | TT3              | B2    |                     | 09B                | TE TO TBL2 2ND M   |        |
| 08967   |        | XA340     | 20  |        | XA148     | 27  |      |             | 16B  | 9     |                   | TBLP0A | 01     | TBLP0A   | 00   | 1       | TT3              | B1    |                     | 11A                | TE TO TBL2 MSB     |        |
| 08740   |        | XA340     | 21  |        | XA340     | 42  |      |             | 16B  | 9     |                   | TBB7A0 | 07     | TBLP2A   | 01   | 1       | TT3              | B3    |                     | 10B                |                    |        |
| 08739   |        | XA340     | 22  |        | XA340     | 21  |      |             | 16B  | 9     |                   | TBB7A0 | 06     | TBLP0A   | 01   | 1       | TT3              | B1    |                     | 12A                |                    |        |
| 09514   |        | XA340     | 23  |        | XA340     | 24  |      |             | 16B  | 9     |                   | TCBCA0 | 07     | TBLP2A   | 01   | 2       | TT3              | B3    |                     | 11B                |                    |        |
| 09515   |        | XA340     | 24  |        | XA340     | 40  |      |             | 16B  | 9     |                   | TCBCA0 | 08     | TBLP0A   | 01   | 2       | TT3              | B1    |                     | 13A                |                    |        |
| 12841   |        | XA340     | 25  |        |           |     |      |             |      |       |                   | TE26C0 | 06     | TBLP2A   | 01   | 3       | TT3              | B3    |                     | 12B                |                    |        |
| 12811   |        | XA340     | 26  |        |           |     |      |             |      |       |                   | TE24C0 | 06     | TBLP0A   | 01   | 3       | TT3              | B1    |                     | 14A                |                    |        |
| 08971   |        | XA340     | 27  |        | XA148     | 39  |      |             | 16B  | 9     |                   | TBLP2A | 01     | TBLP2A   | 00   | 1       | TT3              | B3    |                     | 13B                | TE TO TBL2 2ND L   |        |
| 00541   |        | XA340     | 28  |        |           |     |      |             |      |       |                   | +5V    | 01     |          |      |         | TT3              |       |                     |                    |                    |        |
| 14061   |        | XA340     | 29  |        | XA137     | 80  |      |             | 16B  | 9     |                   | YMDAAA | 01     | YS133A   | 01   | 1       | TT3              | C2    |                     | 14B                |                    |        |
| 11731   |        | XA340     | 30  |        |           |     |      |             |      |       |                   | TD12BQ | 07     | YS133A   | 01   | 2       | TT3              | C2    |                     | 15A                |                    |        |
| 16127   |        | XA340     | 31  |        |           |     |      |             |      |       |                   | YS133A | 02     | YS133A   | 00   | 1       | TT3              | C2    |                     | 15B                | TE0731 RESET GAT   |        |
| 02562   |        | XA340     | 32  |        |           |     |      |             |      |       |                   | GND    | 01     |          |      |         | TT3              |       |                     | 27A                |                    |        |
| 14712   |        | XA340     | 33  |        | XA341     | 20  |      |             | 16B  | 9     |                   | TPE23A | 01     | TPE03A   | 01   | 1       | TT3              | C3    |                     | 16B                |                    |        |
| 16497   |        | XA340     | 34  |        | XA245     | 56  |      |             | 16B  | 9     |                   | YS4M50 | 01     | YS133A   | 01   | 3       | TT3              | C2    |                     | 16A                |                    |        |
| 14720   |        | XA340     | 35  |        |           |     |      |             |      |       |                   | TPE32A | 03     | TPE03A   | 01   | 2       | TT3              | C3    |                     | 17B                |                    |        |
| 08974   |        | XA340     | 36  |        |           |     |      |             |      |       |                   | TBLP3A | 02     | TBLP3A   | 00   | 1       | TT3              | C1    |                     | 17A                | TE TO TBL2 LSB     |        |
| 14907   |        | XA340     | 37  |        | XA341     | 22  |      |             | 16B  | 9     |                   | TP0010 | 01     | TPE03A   | 01   | 3       | TT3              | C3    |                     | 18B                |                    |        |
| 12856   |        | XA340     | 38  |        |           |     |      |             |      |       |                   | TE27C0 | 06     | TBLP3A   | 01   | 1       | TT3              | C1    |                     | 18A                |                    |        |
| 14705   |        | XA340     | 39  |        |           |     |      |             |      |       |                   | TPE03A | 03     | TPE03A   | 00   | 1       | TT3              | C3    |                     | 19B                | PARITY 0-1 EVEN,   |        |
| 09516   |        | XA340     | 40  |        |           |     |      |             |      |       |                   | TCBCA0 | 09     | TBLP3A   | 01   | 2       | TT3              | C1    |                     | 19A                |                    |        |
| 14934   |        | XA340     | 41  |        | XA341     | 21  |      |             | 16B  | 9     |                   | TP0450 | 01     | TPE47A   | 01   | 1       | TT3              | D2    |                     | 22B                |                    |        |
| 08741   |        | XA340     | 42  |        |           |     |      |             |      |       |                   | TBB7A0 | 08     | TBLP3A   | 01   | 3       | TT3              | C1    |                     | 20A                |                    |        |
| 14726   |        | XA340     | 43  |        |           |     |      |             |      |       |                   | TPE47A | 03     | TPE47A   | 00   | 1       | TT3              | D2    |                     | 23B                | PARITY 4-5 EVEN,   |        |
| 02563   |        | XA340     | 44  |        |           |     |      |             |      |       |                   | GND    | 01     |          |      |         | TT3              |       |                     | 40A                |                    |        |
| 14721   |        | XA340     | 45  |        | XA341     | 19  |      |             | 16B  | 9     |                   | TPE45A | 01     | TPE74A   | 01   | 1       | TT3              | D3    |                     | 24B                |                    |        |
| 14730   |        | XA340     | 46  |        | XA341     | 25  |      |             | 16B  | 9     |                   | TPE67A | 01     | TPE47A   | 01   | 2       | TT3              | D2    |                     | 21A                |                    |        |
| 14727   |        | XA340     | 47  |        | XA341     | 17  |      |             | 16B  | 9     |                   | TPE54A | 01     | TPE74A   | 01   | 2       | TT3              | D3    |                     | 25B                |                    |        |
| 14741   |        | XA340     | 48  |        |           |     |      |             |      |       |                   | TPE76A | 03     | TPE47A   | 01   | 3       | TT3              | D2    |                     | 22A                |                    |        |
| 14946   |        | XA340     | 49  |        | XA341     | 27  |      |             | 16B  | 9     |                   | TP0670 | 01     | TPE74A   | 01   | 3       | TT3              | D3    |                     | 26B                |                    |        |
| 14717   |        | XA340     | 50  |        |           |     |      |             |      |       |                   | TPE30A | 03     | TPE30A   | 00   | 1       | TT3              | D1    |                     | 23A                | PARITY 0-1 ODD,    |        |
| CONNECTOR XA340 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |                   |        |        |          |      |         |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA340  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 241

| RECORD NUMBER | FROM   |           |                                 |  | TO     |           |     |  | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR                   | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--|--------|-----------|-----|--|-------------|------|-------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             |  | PREFIX | CONNECTOR | PIN |  | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |        |                  |       |                     |                                      |                    |        |
| 14737         |        | XA340     | 51                              |  | XA343  | 52        |     |  |             | 168  | 9     |       | TPE74A        | 02     | TPE74A | 00       | 1    | TT3    | D3               |       | 27B                 | PARITY 4-5 00D,                      |                    |        |
| 14924         |        | XA340     | 52                              |  | XA341  | 14        |     |  |             | 168  | 9     |       | TP0230        | 01     | TPE30A | 01       | 1    | TT3    | D1               |       | 24A                 |                                      |                    |        |
| 14525         |        | XA340     | 53                              |  | XA327  | 75        |     |  |             | 168  | 9     |       | TM03C0        | 09     | TS181A | 01       | 1    | TT3    | E2               |       | 28B                 | S17.M3.BRST*                         |                    |        |
| 14709         |        | XA340     | 54                              |  | XA341  | 24        |     |  |             | 168  | 9     |       | TPE10A        | C1     | TPE30A | 01       | 2    | TT3    | D1               |       | 25A                 |                                      |                    |        |
| 16249         |        | XA340     | 55                              |  | XA346  | 34        |     |  |             | 168  | 9     |       | TS181A        | 01     | TS181A | 00       | 1    | TT3    | E2               |       | 29B                 |                                      |                    |        |
| 14700         |        | XA340     | 56                              |  | XA341  | 26        |     |  |             | 168  | 9     |       | TPE01A        | 01     | TPE30A | 01       | 3    | TT3    | D1               |       | 26A                 |                                      |                    |        |
| 15461         |        | XA340     | 57                              |  | XA441  | 06        |     |  |             | 168  | 9     |       | TR02BR        | 02     | TS022A | 01       | 1    | TT3    | E3               |       | 30B                 |                                      |                    |        |
| 02564         |        | XA340     | 58                              |  |        |           |     |  |             |      |       |       | GND           | 01     |        |          |      | TT3    |                  |       | 40B                 |                                      |                    |        |
| 05785         |        | XA340     | 59                              |  | XA339  | 51        |     |  |             | 168  | 9     |       | SPI031        | 06     | TS022A | 01       | 2    | TT3    | E3               |       | 31B                 |                                      |                    |        |
| 16219         |        | XA340     | 60                              |  | XA341  | 78        |     |  |             | 168  | 9     |       | TS17BQ        | 03     | TS181A | 01       | 2    | TT3    | E2               |       | 28A                 |                                      |                    |        |
| 16923         |        | XA340     | 61                              |  | XA440  | 40        |     |  |             | 168  | 9     |       | TXAUC0        | 01     | TS022A | 01       | 3    | TT3    | E3               |       | 32B                 |                                      |                    |        |
| 09121         |        | XA340     | 62                              |  | XA343  | 59        |     |  |             | 168  | 9     |       | TBRSTP        | 02     | TS181A | 01       | 3    | TT3    | E2               |       | 29A                 |                                      |                    |        |
| 15838         |        | XA340     | 63                              |  | XA341  | 49        |     |  |             | 168  | 9     |       | TS022A        | 01     | TS022A | 00       | 1    | TT3    | E3               |       | 33B                 | NORMAL REQUEST.N<br>PARITY ERROR,0-7 |                    |        |
| 14691         |        | XA340     | 64                              |  |        |           |     |  |             |      |       |       | TPEPOA        | 02     | TPEPOA | 00       | 1    | TT3    | F1               |       | 30A                 |                                      |                    |        |
| 16195         |        | XA340     | 65                              |  | XA327  | 23        |     |  |             | 168  | 9     |       | TS16C0        | 05     | TS101A | 01       | 1    | TT3    | F2               |       | 34B                 |                                      |                    |        |
| 12612         |        | XA340     | 66                              |  |        |           |     |  |             |      |       |       | TEOPBP        | 02     | TPEPOA | 01       | 1    | TT3    | E1               |       | 31A                 |                                      |                    |        |
| 02565         |        | XA340     | 67                              |  |        |           |     |  |             |      |       |       | GND           | 01     |        |          |      | TT3    |                  |       |                     |                                      |                    |        |
| 14708         |        | XA340     | 68                              |  |        |           |     |  |             |      |       |       | TPE07A        | 03     | TPEPCA | 01       | 2    | TT3    | E1               |       | 32A                 |                                      |                    |        |
| 14514         |        | XA340     | 69                              |  |        |           |     |  |             |      |       |       | TM03BQ        | 06     | TS111A | 01       | 1    | TT3    | F3               |       | 35A                 |                                      |                    |        |
| 14733         |        | XA340     | 70                              |  | XA343  | 43        |     |  |             | 168  | 9     |       | TPE70A        | 01     | TPEPOA | 01       | 3    | TT3    | E1               |       | 33A                 |                                      |                    |        |
| 14531         |        | XA340     | 71                              |  | XA325  | 54        |     |  |             | 168  | 9     |       | TM03D0        | 05     | TS101A | 01       | 2    | TT3    | F2               |       | 36A                 |                                      |                    |        |
| 14339         |        | XA340     | 72                              |  |        |           |     |  |             |      |       |       | TMS3BQ        | 08     | TS101A | 01       | 3    | TT3    | F2               |       | 34A                 |                                      |                    |        |
| 15997         |        | XA340     | 73                              |  |        |           |     |  |             |      |       |       | TS09NA        | 02     | TS09NA | 00       | 1    | TT3    | F1               |       | 36B                 | S9.NOT CH.END. N<br>S16 . NO PE      |                    |        |
| 16032         |        | XA340     | 74                              |  |        |           |     |  |             |      |       |       | TS101A        | 03     | TS101A | 00       | 1    | TT3    | F2               |       | 35B                 |                                      |                    |        |
| 15995         |        | XA340     | 75                              |  |        |           |     |  |             |      |       |       | TS09BQ        | 09     | TS09NA | 01       | 1    | TT3    | F1               |       | 37B                 |                                      |                    |        |
| 16023         |        | XA340     | 76                              |  | XA348  | 20        |     |  |             | 168  | 9     |       | TS10BQ        | 01     | TS111A | 01       | 2    | TT3    | F3               |       | 37A                 |                                      |                    |        |
| 10338         |        | XA340     | 77                              |  |        |           |     |  |             |      |       |       | TCL6BP        | 09     | TS09NA | 01       | 2    | TT3    | F1               |       | 38B                 |                                      |                    |        |
| 14684         |        | XA340     | 78                              |  | XA138  | 45        |     |  |             | 168  | 9     |       | TPEM3A        | 02     | TS111A | 01       | 3    | TT3    | F3               |       | 38A                 |                                      |                    |        |
| 15432         |        | XA340     | 79                              |  | XA304  | 03        |     |  |             | 168  | 9     |       | TRT00A        | 04     | TS09NA | 01       | 3    | TT3    | F1               |       | 39B                 | S10 . PE* . M3                       | 006                |        |
| 16057         |        | XA340     | 80                              |  | XA344  | 70        |     |  |             | 168  | 9     |       | TS111A        | 01     | TS111A | 00       | 1    | TT3    | F3               |       | 39A                 |                                      |                    |        |
| 13941         |        | XA341     | 01                              |  | XA339  | 08        |     |  |             | 168  | 9     |       | TK010A        | 01     | TK010A | 00       | 1    | TQ2    | A2               |       | 02B                 | SET CLK GEN BIT                      |                    |        |
| 02566         |        | XA341     | 02                              |  |        |           |     |  |             |      |       |       | GND           | 01     |        |          |      | TQ2    |                  |       | 01A                 |                                      |                    |        |
| 13844         |        | XA341     | 03                              |  | XA339  | 09        |     |  |             | 168  | 9     |       | TKICBP        | 01     | TK011A | 01       | 1    | TQ2    | A3               |       | 02A                 |                                      |                    |        |
| 13940         |        | XA341     | 04                              |  |        |           |     |  |             |      |       |       | TK01BQ        | 06     | TK010A | 01       | 1    | TQ2    | A2               |       | 04A                 |                                      |                    |        |
| 13922         |        | XA341     | 05                              |  |        |           |     |  |             |      |       |       | TK03BP        | 02     | TK010A | 01       | 2    | TQ2    | A2               |       | 03B                 | ICC IN STATE STE                     |                    |        |
| 13928         |        | XA341     | 06                              |  |        |           |     |  |             |      |       |       | TK000A        | 03     | TK000A | 00       | 1    | TQ2    | A1               |       | 05A                 |                                      |                    |        |
| 17332         |        | XA341     | 07                              |  | XA339  | 05        |     |  |             | 168  | 9     |       | UICSM0        | 03     | TK011A | 01       | 2    | TQ2    | A3               |       | 03A                 |                                      |                    |        |
| 17331         |        | XA341     | 08                              |  | XA341  | 07        |     |  |             | 168  | 9     |       | UICSM0        | 02     | TK000A | 01       | 1    | TQ2    | A1               |       | 06A                 |                                      |                    |        |
| 13944         |        | XA341     | 09                              |  |        |           |     |  |             |      |       |       | TK011A        | 02     | TK011A | 00       | 1    | TQ2    | A3               |       | 04B                 | STEP MODE . IOC                      |                    |        |
| 17337         |        | XA341     | 10                              |  | XA428  | 26        |     |  |             | 168  | 9     |       | UICSS0        | 01     | TK000A | 01       | 2    | TQ2    | A1               |       | 07A                 |                                      |                    |        |
| 15940         |        | XA341     | 11                              |  | XA349  | 36        |     |  |             | 168  | 9     |       | TS07BQ        | 04     | TS003A | 01       | 1    | TQ2    | A4               |       | 05B                 |                                      |                    |        |
| 00542         |        | XA341     | 12                              |  |        |           |     |  |             |      |       |       | +5V           | 01     |        |          |      | TQ2    |                  |       |                     |                                      |                    |        |
| 14419         |        | XA341     | 13                              |  |        |           |     |  |             |      |       |       | TM0BLO        | 02     | TS003A | 01       | 2    | TQ2    | A4               |       | 06B                 | EVEN PARITY 2-3<br>S7(MO.BOOTSTRAP   |                    |        |
| 14925         |        | XA341     | 14                              |  |        |           |     |  |             |      |       |       | TP0230        | 02     | TP0230 | 00       | 1    | TQ2    | B2               |       | 09A                 |                                      |                    |        |
| 15763         |        | XA341     | 15                              |  | XA344  | 06        |     |  |             | 168  | 9     |       | TS003A        | 01     | TS003A | 00       | 1    | TQ2    | A4               |       | 07B                 |                                      |                    |        |
| 02567         |        | XA341     | 16                              |  |        |           |     |  |             |      |       |       | GND           | 01     |        |          |      | TQ2    |                  |       | 01B                 |                                      |                    |        |
| 14728         |        | XA341     | 17                              |  | XA246  | 33        |     |  |             | 168  | 9     |       | TPE54A        | 02     | TP0450 | 01       | 1    | TQ2    | B3               |       | 08B                 |                                      |                    |        |
| 14719         |        | XA341     | 18                              |  | XA340  | 35        |     |  |             | 168  | 9     |       | TPE32A        | 02     | TP0230 | 01       | 1    | TQ2    | B2               |       | 10A                 |                                      |                    |        |
| CONNECTOR     |        | XA341     | CONTINUED ON THE NEXT PAGE **** |  |        |           |     |  |             |      |       |       |               |        |        |          |      |        |                  |       |                     |                                      |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA341  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 242

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE  |             |      | SPEC. INST. MISC. | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------------------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH PG | MULTI GROUP | CODE |                   |        |        |          |        |        |                  |       |                     |                    |                    |        |
| 14722   |        | XA341     | 19  |        | XA246     | 30  |       |             | 16B  | 9                 |        | TPE45A | 02       | TP0450 | 01     | 2                | TQ2   | B3                  | 09B                |                    |        |
| 14713   |        | XA341     | 20  |        | XA246     | 14  |       |             | 16B  | 9                 |        | TPE23A | 02       | TP0230 | 01     | 2                | TQ2   | B2                  | 11A                |                    |        |
| 14935   |        | XA341     | 21  |        |           |     |       |             |      |                   |        | TP0450 | 02       | TP0450 | 00     | 1                | TQ2   | B3                  | 10B                | PARITY 4-5 EVEN    |        |
| 14908   |        | XA341     | 22  |        |           |     |       |             |      |                   |        | TP0010 | 02       | TP0010 | 00     | 1                | TQ2   | B1                  | 12A                | PARITY 0-1 EVEN    |        |
| 14740   |        | XA341     | 23  |        | XA340     | 48  |       |             | 16B  | 9                 |        | TPE76A | 02       | TP0670 | 01     | 1                | TQ2   | B4                  | 11B                |                    |        |
| 14710   |        | XA341     | 24  |        | XA246     | 01  |       |             | 16B  | 9                 |        | TPE10A | 02       | TP0010 | 01     | 1                | TQ2   | B1                  | 13A                |                    |        |
| 14731   |        | XA341     | 25  |        | XA246     | 46  |       |             | 16B  | 9                 |        | TPE67A | 02       | TP0670 | 01     | 2                | TQ2   | B4                  | 12B                |                    |        |
| 14701   |        | XA341     | 26  |        | XA246     | 06  |       |             | 16B  | 9                 |        | TPE01A | 02       | TP0010 | 01     | 2                | TQ2   | B1                  | 14A                |                    |        |
| 14947   |        | XA341     | 27  |        |           |     |       |             |      |                   |        | TP0670 | 02       | TP0670 | 00     | 1                | TQ2   | B4                  | 13B                | PARITY 6-7 EVEN    |        |
| 00543   |        | XA341     | 28  |        |           |     |       |             |      |                   |        | +5V    | 01       |        |        |                  | TQ2   |                     |                    |                    |        |
| 14735   |        | XA341     | 29  |        |           |     |       |             |      |                   |        | TPE70A | 03       | TP0070 | 01     | 1                | TQ2   | C3                  | 14B                |                    |        |
| 14937   |        | XA341     | 30  |        |           |     |       |             |      |                   |        | TP0470 | 02       | TP0470 | 00     | 1                | TQ2   | C2                  | 15A                | PARITY 4-7 ODD     |        |
| 14706   |        | XA341     | 31  |        | XA343     | 50  |       |             | 16B  | 9                 |        | TPE07A | 01       | TP0070 | 01     | 2                | TQ2   | C3                  | 15B                |                    |        |
| 02568   |        | XA341     | 32  |        |           |     |       |             |      |                   |        | GND    | 01       |        |        |                  | TQ2   |                     | 20B                |                    |        |
| 14914   |        | XA341     | 33  |        | XA426     | 69  |       |             | 16B  | 9                 |        | TP0070 | 02       | TP0070 | 00     | 1                | TQ2   | C3                  | 16B                | PARITY 0-7 ODD     |        |
| 14725   |        | XA341     | 34  |        | XA340     | 43  |       |             | 16B  | 9                 |        | TPE47A | 02       | TP0470 | 01     | 1                | TQ2   | C2                  | 16A                |                    |        |
| 16409   |        | XA341     | 35  |        | XA346     | 43  |       |             | 16B  | 9                 |        | TS25BQ | 05       | TS007A | 01     | 1                | TQ2   | C4                  | 17B                |                    |        |
| 14736   |        | XA341     | 36  |        | XA340     | 51  |       |             | 16B  | 9                 |        | TPE74A | 01       | TP0470 | 01     | 2                | TQ2   | C2                  | 17A                |                    |        |
| 13381   |        | XA341     | 37  |        |           |     |       |             |      |                   |        | TINIT0 | 03       | TS007A | 01     | 2                | TQ2   | C4                  | 18B                |                    |        |
| 14910   |        | XA341     | 38  |        |           |     |       |             |      |                   |        | TP0030 | 02       | TP0030 | 00     | 1                | TQ2   | C1                  | 18A                | PARITY 0-3 ODD     |        |
| 15774   |        | XA341     | 39  |        | XA344     | 04  |       |             | 16B  | 9                 |        | TS007A | 02       | TS007A | 00     | 1                | TQ2   | C4                  | 19B                | S25(I/O T.O. + I   |        |
| 14716   |        | XA341     | 40  |        | XA340     | 50  |       |             | 16B  | 9                 |        | TPE30A | 02       | TP0030 | 01     | 1                | TQ2   | C1                  | 19A                |                    |        |
| 09217   |        | XA341     | 41  |        | XA343     | 65  |       |             | 16B  | 9                 |        | TBST20 | 05       | TS01JA | 01     | 1                | TQ2   | 03                  | 22A                |                    |        |
| 14704   |        | XA341     | 42  |        | XA340     | 39  |       |             | 16B  | 9                 |        | TPE03A | 02       | TP0030 | 01     | 2                | TQ2   | C1                  | 20A                |                    |        |
| 16166   |        | XA341     | 43  |        | XA341     | 65  |       |             | 16B  | 9                 |        | TS15BQ | 05       | TS010A | 01     | 2                | TQ2   | 03                  | 23B                |                    |        |
| 02569   |        | XA341     | 44  |        |           |     |       |             |      |                   |        | GND    | 01       |        |        |                  | TQ2   |                     | 21B                |                    |        |
| 15801   |        | XA341     | 45  |        |           |     |       |             |      |                   |        | TS010A | 02       | TS010A | 00     | 1                | TQ2   | 03                  | 24B                | S15 . BYS2 GO TO   |        |
| 07922   |        | XA341     | 46  |        | XA330     | 55  |       |             | 16B  | 9                 |        | TS00AA | 04       | TS00AA | 00     | 1                | TQ2   | 02                  | 21A                |                    |        |
| 15837   |        | XA341     | 47  |        |           |     |       |             |      |                   |        | TS021A | 02       | TS0230 | 01     | 1                | TQ2   | 04                  | 25B                |                    |        |
| 05760   |        | XA341     | 48  |        | XA345     | 42  |       |             | 16B  | 9                 |        | TS00BQ | 04       | TS00AA | 01     | 1                | TQ2   | 02                  | 22A                |                    |        |
| 15839   |        | XA341     | 49  |        |           |     |       |             |      |                   |        | TSJ22A | 02       | TS0230 | 01     | 2                | TQ2   | 04                  | 26B                |                    |        |
| 05787   |        | XA341     | 50  |        | XA343     | 53  |       |             | 16B  | 9                 |        | SPI031 | 08       | TS00AA | 01     | 2                | TQ2   | 02                  | 23A                |                    |        |
| 15841   |        | XA341     | 51  |        |           |     |       |             |      |                   |        | TS0230 | 02       | TS0230 | 00     | 1                | TQ2   | 04                  | 27B                | SEL S02            |        |
| 15779   |        | XA341     | 52  |        |           |     |       |             |      |                   |        | TS008A | 03       | TS008A | 00     | 1                | TQ2   | 01                  | 24A                | S26(OFRO+OFR1+OF   |        |
| 15908   |        | XA341     | 53  |        |           |     |       |             |      |                   |        | TS051A | 02       | TS0500 | 01     | 1                | TQ2   | E3                  | 28B                |                    |        |
| 16421   |        | XA341     | 54  |        |           |     |       |             |      |                   |        | TS26BQ | 04       | TS008A | 01     | 1                | TQ2   | 01                  | 25A                |                    |        |
| 15910   |        | XA341     | 55  |        |           |     |       |             |      |                   |        | TS052A | 02       | TS0500 | 01     | 2                | TQ2   | E3                  | 29B                |                    |        |
| 17044   |        | XA341     | 56  |        | XA141     | 66  |       |             | 16B  | 9                 |        | TOFRDA | 01       | TS008A | 01     | 2                | TQ2   | 01                  | 26A                |                    |        |
| 15906   |        | XA341     | 57  |        |           |     |       |             |      |                   |        | TS0500 | 02       | TS0500 | 00     | 1                | TQ2   | E3                  | 30B                | SEL S05 CONDITIO   |        |
| 02570   |        | XA341     | 58  |        |           |     |       |             |      |                   |        | GND    | 01       |        |        |                  | TQ2   |                     | 27A                |                    |        |
| 14597   |        | XA341     | 59  |        |           |     |       |             |      |                   |        | TM355A | 03       | TS0600 | 01     | 1                | TQ2   | E4                  | 31B                |                    |        |
| 15885   |        | XA341     | 60  |        |           |     |       |             |      |                   |        | TS0410 | 02       | TS0410 | 00     | 1                | TQ2   | E2                  | 28A                | S03(M3 + BURST +   |        |
| 15930   |        | XA341     | 61  |        |           |     |       |             |      |                   |        | TS061A | 02       | TS0600 | 01     | 2                | TQ2   | E4                  | 32A                |                    |        |
| 16492   |        | XA341     | 62  |        | XA330     | 46  |       |             | 16B  | 9                 |        | TS3M3A | 02       | TS0410 | 01     | 1                | TQ2   | E2                  | 30A                |                    |        |
| 15928   |        | XA341     | 63  |        |           |     |       |             |      |                   |        | TS0600 | 02       | TS0600 | 00     | 1                | TQ2   | F4                  | 33B                | SEL S06 CONDITIO   |        |
| 15887   |        | XA341     | 64  |        |           |     |       |             |      |                   |        | TS042A | 02       | TS0410 | 01     | 2                | TQ2   | E2                  | 30A                |                    |        |
| 16167   |        | XA341     | 65  |        |           |     |       |             |      |                   |        | TS15BQ | 06       | TS163A | 01     | 1                | TQ2   | F3                  | 34B                |                    |        |
| 15860   |        | XA341     | 66  |        |           |     |       |             |      |                   |        | TS0300 | 03       | TS0300 | 00     | 1                | TQ2   | E1                  | 31A                | SEL S03            |        |
| 02571   |        | XA341     | 67  |        |           |     |       |             |      |                   |        | GND    | 01       |        |        |                  | TQ2   |                     | 40A                |                    |        |
| 15863   |        | XA341     | 68  |        |           |     |       |             |      |                   |        | TS031A | 03       | TS0300 | 01     | 1                | TQ2   | E1                  | 32A                |                    |        |
| CONNECTOR (XA341) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |                   |        |        |          |        |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA341  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 243

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SPEC. MISC. | SIGNAL | SEQ NO. | EQUATION | TERM. | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|-------------|--------|---------|----------|-------|--------|------------------|-------|---------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |             |        |         |          |       |        |                  |       |                     |                    |                    |         |
| 16208   |        | XA341     | 69  |        | XA346     | 25  |             |      | 16B   | 9     |             | TS163A | 01      | TS163A   | 00    | 1      | TQ2              | F3    |                     | 35A                | S15 AND M3         |         |
| 15865   |        | XA341     | 70  |        |           |     |             |      |       |       |             | TS032A | 02      | TS0300   | 01    | 2      | TQ2              | E1    |                     | 33A                |                    |         |
| 14678   |        | XA341     | 71  |        | XA351     | 59  |             |      | 16B   | 9     |             | TPEM2A | 03      | TS12PA   | 00    | 1      | TQ2              | F2    |                     | 36A                |                    |         |
| 16081   |        | XA341     | 72  |        |           |     |             |      |       |       |             | TS12PA | 02      | TS12PA   | 01    | 1      | TQ2              | F2    |                     | 34A                | S12 AND NO PE      |         |
| 16075   |        | XA341     | 73  |        | XA347     | 19  |             |      | 16B   | 9     |             | TS1280 | 03      | TS12PA   | 01    | 2      | TQ2              | F2    |                     | 36B                |                    | C07     |
| 14524   |        | XA341     | 74  |        | XA340     | 53  |             |      | 16B   | 9     |             | TM03C0 | 08      | TS163A   | 01    | 2      | TQ2              | F3    |                     | 35B                |                    |         |
| 16015   |        | XA341     | 75  |        | XA415     | 11  |             |      | 16B   | 9     |             | TS1T30 | 01      | TS1T30   | 00    | 1      | TQ2              | F1    |                     | 37B                | STATE S01 OR S03   |         |
| 14605   |        | XA341     | 76  |        | XA327     | 29  |             |      | 16B   | 9     |             | TM3TOA | 06      | TS17MA   | 01    | 1      | TQ2              | F4    |                     | 37A                |                    |         |
| 15754   |        | XA341     | 77  |        |           |     |             |      |       |       |             | TSJ01A | 02      | TS1T30   | 01    | 1      | TQ2              | F1    |                     | 38B                |                    |         |
| 16220   |        | XA341     | 78  |        |           |     |             |      |       |       |             | TS17BQ | 04      | TS17MA   | 01    | 2      | TQ2              | F4    |                     | 38A                |                    |         |
| 15817   |        | XA341     | 79  |        | XA342     | 51  |             |      | 16B   | 9     |             | TS02BP | 01      | TS1T30   | 01    | 2      | TQ2              | F1    |                     | 39B                |                    |         |
| 16222   |        | XA341     | 80  |        |           |     |             |      |       |       |             | TS17MA | 02      | TS17MA   | 00    | 1      | TQ2              | F4    |                     | 39A                | S17 AND M3+ MEM T  |         |
| 12840   |        | XA342     | 01  |        | XA340     | 25  |             |      | 16B   | 9     |             | TE26C0 | 05      | TE26C0   | 00    | 1      | THI              | A4    |                     | 02B                | TE BIT 26 UNLOAD   |         |
| 02572   |        | XA342     | 02  |        |           |     |             |      |       |       |             | GND    | 01      |          |       |        | THI              |       |                     | 01A                |                    |         |
| 12825   |        | XA342     | 03  |        | XA340     | 14  |             |      | 16B   | 9     |             | TE25C0 | 05      | TE25C0   | 00    | 1      | THI              | A3    |                     | 03A                | TE BIT 25 UNLOAD   |         |
| 12815   |        | XA342     | 04  |        | XA238     | 09  |             |      | 16B   | 9     |             | TE25BP | 02      | TE25C0   | 01    | 1      | THI              | A3    |                     | 02A                |                    |         |
| 12830   |        | XA342     | 05  |        | XA238     | 23  |             |      | 16B   | 9     |             | TE26BP | 02      | TE26C0   | 01    | 1      | THI              | A4    |                     | 03B                |                    |         |
| 12799   |        | XA342     | 06  |        | XA333     | 04  |             |      | 16B   | 9     |             | TE24BP | 01      | TE24C0   | 01    | 1      | THI              | A2    |                     | 05A                |                    |         |
| 12855   |        | XA342     | 07  |        | XA340     | 38  |             |      | 16B   | 9     |             | TE27C0 | 05      | TE27C0   | 00    | 1      | THI              | A5    |                     | 04B                | TE BIT 27 UNLOAD   |         |
| 12810   |        | XA342     | 08  |        | XA340     | 26  |             |      | 16B   | 9     |             | TE24C0 | 05      | TE24C0   | 00    | 1      | THI              | A2    |                     | 04A                | TE BIT 24 UNLOAD   |         |
| 12844   |        | XA342     | 09  |        | XA333     | 01  |             |      | 16B   | 9     |             | TE27BP | 01      | TE27C0   | 01    | 1      | THI              | A5    |                     | 05B                |                    |         |
| 12870   |        | XA342     | 10  |        |           |     |             |      |       |       |             | TE28C0 | 05      | TE28C0   | 00    | 1      | THI              | A6    |                     | 06B                | TE BIT 28 UNLOAD   |         |
| 05815   |        | XA342     | 11  |        | XA121     | 29  |             |      | 16B   | 9     |             | SPI031 | 36      |          | 01    | 1      | THI              | A1    |                     | 07A                |                    |         |
| 00544   |        | XA342     | 12  |        |           |     |             |      |       |       |             | +5V    | 01      |          |       |        | THI              |       |                     |                    |                    |         |
| 07923   |        | XA342     | 13  |        |           |     |             |      |       |       |             | SPO    | 01      |          | 00    | 1      | THI              | A1    |                     | 06A                |                    |         |
| 12912   |        | XA342     | 14  |        |           |     |             |      |       |       |             | TE31C0 | 05      | TE31C0   | 00    | 1      | THI              | B4    |                     | 08B                | TE BIT 31 UNLOAD   |         |
| 12860   |        | XA342     | 15  |        | XA238     | 35  |             |      | 16B   | 9     |             | TE28BP | 02      | TE28C0   | 01    | 1      | THI              | A6    |                     | 07B                |                    |         |
| 02573   |        | XA342     | 16  |        |           |     |             |      |       |       |             | GND    | 01      |          |       |        | THI              |       |                     | 20B                |                    |         |
| 12902   |        | XA342     | 17  |        | XA238     | 45  |             |      | 16B   | 9     |             | TE31BP | 02      | TE31C0   | 01    | 1      | THI              | B4    |                     | 09B                |                    |         |
| 12894   |        | XA342     | 18  |        | XA237     | 56  |             |      | 16B   | 9     |             | TE30C0 | 01      | TE30C0   | 00    | 1      | THI              | B3    |                     | 09A                | TE BIT 30 UNLOAD   |         |
| 09520   |        | XA342     | 19  |        |           |     |             |      |       |       |             | TCBS10 | 02      | TCBS10   | 00    | 1      | THI              | B5    |                     | 10B                | BOOTSTRAP COMPAR   |         |
| 12887   |        | XA342     | 20  |        | XA333     | 18  |             |      | 16B   | 9     |             | TE30BP | 01      | TE30C0   | 01    | 1      | THI              | B3    |                     | 10A                |                    |         |
| 09518   |        | XA342     | 21  |        |           |     |             |      |       |       |             | TCBS1A | 02      | TCBS10   | 01    | 1      | THI              | B5    |                     | 11B                |                    |         |
| 12874   |        | XA342     | 22  |        | XA238     | 33  |             |      | 16B   | 9     |             | TE29BP | 02      | TE29C0   | 01    | 1      | THI              | B1    |                     | 14A                |                    |         |
| 09522   |        | XA342     | 23  |        |           |     |             |      |       |       |             | TCBS2A | 02      | TCBS20   | 01    | 1      | THI              | B2    |                     | 12A                |                    |         |
| 12884   |        | XA342     | 24  |        |           |     |             |      |       |       |             | TE29C0 | 05      | TE29C0   | 00    | 1      | THI              | B1    |                     | 13A                | TE BIT 29 UNLOAD   |         |
| 09524   |        | XA342     | 25  |        |           |     |             |      |       |       |             | TCBS20 | 02      | TCBS20   | 00    | 1      | THI              | B2    |                     | 11A                | BOOTSTRAP COMPAR   |         |
| 16970   |        | XA342     | 26  |        | XA142     | 43  |             |      | 16B   | 9     |             | TXC120 | 02      | TXC120   | 00    | 1      | THI              | B6    |                     | 12B                | COUNT #ZERO.I2-0   |         |
| 16968   |        | XA342     | 27  |        |           |     |             |      |       |       |             | TXC12A | 03      | TXC120   | 01    | 1      | THI              | B6    |                     | 13B                |                    |         |
| 00545   |        | XA342     | 28  |        |           |     |             |      |       |       |             | +5V    | 01      |          |       |        | THI              |       |                     |                    |                    |         |
| 15741   |        | XA342     | 29  |        | XA343     | 35  |             |      | 16B   | 9     |             | TS00BP | 06      | TS00A0   | 01    | 1      | THI              | C4    |                     | 15B                |                    |         |
| 15727   |        | XA342     | 30  |        | XA445     | 35  |             |      | 16B   | 9     |             | TS00A0 | 04      | TS00A0   | 00    | 1      | THI              | C4    |                     | 14B                | STATE S0 UNLOA     |         |
| 13295   |        | XA342     | 31  |        | XA351     | 22  |             |      | 16B   | 9     |             | TICTDA | 01      | TICTDA   | 00    | 1      | THI              | C5    |                     | 16B                | CTS READ TO REG    |         |
| 02574   |        | XA342     | 32  |        |           |     |             |      |       |       |             | GND    | 01      |          |       |        | THI              |       |                     | 21B                |                    |         |
| 17345   |        | XA342     | 33  |        | XA428     | 77  |             |      | 16B   | 9     |             | UICTD0 | 01      | TICTDA   | 01    | 1      | THI              | C5    |                     | 17B                |                    |         |
| 14743   |        | XA342     | 34  |        | XA251     | 54  |             |      | 16B   | 9     |             | TPGNDA | 02      | TPGNDA   | 00    | 1      | THI              | C3    |                     | 15A                | GROUND             |         |
| 12551   |        | XA342     | 35  |        | XA428     | 22  |             |      | 16B   | 9     |             | TERSA0 | 02      | TERSA0   | 01    | 1      | THI              | C2    |                     | 18A                |                    |         |
| 05812   |        | XA342     | 36  |        | XA342     | 39  |             |      | 16B   | 9     |             | SPI031 | 33      | TPGNDA   | 01    | 1      | THI              | C3    |                     | 16A                |                    |         |
| CONNECTOR (XA342) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |             |        |         |          |       |        |                  |       |                     |                    |                    |         |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA342  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 244

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 12549         |        | XA342     | 37                              |      |        |           |     |      |             |      |       |       | TERSAA | 05     | TERSAA   | 00   | 1      | THI              | C2    |                     | 17A                | RESET INPUT        |        |
| 15787         |        | XA342     | 38                              |      | XA339  | 37        |     |      | 16B         | 9    |       |       | TS01BQ | 03     | TS01CA   | 01   | 1      | THI              | C1    |                     | 20A                |                    |        |
| 05813         |        | XA342     | 39                              |      | XA344  | 25        |     |      | 16B         | 9    |       |       | SPI031 | 34     |          | 01   | 1      | THI              | C6    |                     | 19B                |                    |        |
| 15792         |        | XA342     | 40                              |      |        |           |     |      |             |      |       |       | TS01CA | 02     | TS01CA   | 00   | 1      | THI              | C1    |                     | 19A                | TE0731 RESET UNL   |        |
| 15803         |        | XA342     | 41                              |      |        |           |     |      |             |      |       |       | TCPD1A | 04     | TCPD10   | 01   | 1      | THI              | D4    |                     | 23B                |                    | 005    |
| 07924         |        | XA342     | 42                              |      |        |           |     |      |             |      |       |       | SPO    | 01     |          | 00   | 1      | THI              | C6    |                     | 18B                |                    |        |
| 15808         |        | XA342     | 43                              |      | XA438  | 70        |     |      | 16B         | 9    |       |       | TS02A0 | 02     | TS02A0   | 00   | 1      | THI              | D5    |                     | 24B                | STATE S2 UNLOA     |        |
| 02575         |        | XA342     | 44                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          | 00   | 1      | THI              |       |                     | 27A                |                    |        |
| 15819         |        | XA342     | 45                              |      | XA339  | 33        |     |      | 16B         | 9    |       |       | TS02BP | 03     | TS02A0   | 01   | 1      | THI              | D5    |                     | 25B                |                    |        |
| 15806         |        | XA342     | 46                              |      | XA338  | 71        |     |      | 16B         | 9    |       |       | TCPD10 | 01     | TCPD10   | 00   | 1      | THI              | D4    |                     | 22B                | SEL S01            | 005    |
| 15762         |        | XA342     | 47                              |      |        |           |     |      |             |      |       |       | TS0020 | 02     | TS002A   | 01   | 1      | THI              | D2    |                     | 24A                |                    |        |
| 15795         |        | XA342     | 48                              |      | XA127  | 18        |     |      | 16B         | 9    |       |       | TS01C0 | 03     | TS01C0   | 00   | 1      | THI              | D3    |                     | 21A                | S01 UNLOAD         |        |
| 15759         |        | XA342     | 49                              |      | XA344  | 13        |     |      | 16B         | 9    |       |       | TS002A | 01     | TS002A   | 00   | 1      | THI              | D2    |                     | 23A                | S9 + S12 + S13 +   |        |
| 15783         |        | XA342     | 50                              |      | XA339  | 35        |     |      | 16B         | 9    |       |       | TS01BP | 02     | TS01C0   | 01   | 1      | THI              | D3    |                     | 22A                |                    |        |
| 15818         |        | XA342     | 51                              |      | XA342  | 45        |     |      | 16B         | 9    |       |       | TS02BP | 02     | TS02C0   | 01   | 1      | THI              | D6    |                     | 27B                |                    |        |
| 15747         |        | XA342     | 52                              |      | XA338  | 47        |     |      | 16B         | 9    |       |       | SPI030 | 18     |          | 01   | 1      | THI              | D1    |                     | 26A                |                    |        |
| 15833         |        | XA342     | 53                              |      | XA351  | 53        |     |      | 16B         | 9    |       |       | TS02C0 | 04     | TS02C0   | 00   | 1      | THI              | D6    |                     | 26B                | STATE S02 F/F UN   |        |
| 15721         |        | XA342     | 54                              |      |        |           |     |      |             |      |       |       | SPO    | 01     |          | 00   | 1      | THI              | D1    |                     | 25A                | S00* UNLOAD        |        |
| 15912         |        | XA342     | 55                              |      | XA345  | 18        |     |      | 16B         | 9    |       |       | TS06BP | 02     | TS06C0   | 01   | 1      | THI              | E4    |                     | 29B                |                    |        |
| 15925         |        | XA342     | 56                              |      |        |           |     |      |             |      |       |       | TS06C0 | 03     | TS06C0   | 00   | 1      | THI              | E4    |                     | 28B                | STATE S06 F/F UN   |        |
| 15946         |        | XA342     | 57                              |      | XA345  | 30        |     |      | 16B         | 9    |       |       | TS07C0 | 02     | TS07C0   | 00   | 1      | THI              | E5    |                     | 30B                | STATE S07 F/F UN   |        |
| 02576         |        | XA342     | 58                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     | 40A                |                    |        |
| 15934         |        | XA342     | 59                              |      | XA344  | 43        |     |      | 16B         | 9    |       |       | TS07BP | 04     | TS07C0   | 01   | 1      | THI              | E5    |                     | 31B                |                    |        |
| 15903         |        | XA342     | 60                              |      |        |           |     |      |             |      |       |       | TS05C0 | 05     | TS05C0   | 00   | 1      | THI              | E3    |                     | 28A                | STATE S05 F/F UN   |        |
| 15867         |        | XA342     | 61                              |      | XA250  | 70        |     |      | 16B         | 9    |       |       | TS04BP | 02     | TS04C0   | 01   | 1      | THI              | E2    |                     | 31A                |                    |        |
| 15889         |        | XA342     | 62                              |      | XA346  | 53        |     |      | 16B         | 9    |       |       | TS05BP | 02     | TS05C0   | 01   | 1      | THI              | E3    |                     | 29A                |                    |        |
| 15880         |        | XA342     | 63                              |      | XA345  | 79        |     |      | 16B         | 9    |       |       | TS04C0 | 01     | TS04C0   | 00   | 1      | THI              | E2    |                     | 30A                | STATE S04 F/F UN   |        |
| 15843         |        | XA342     | 64                              |      | XA339  | 47        |     |      | 16B         | 9    |       |       | TS03BP | 02     | TS03C0   | 01   | 1      | THI              | E1    |                     | 33A                |                    |        |
| 15955         |        | XA342     | 65                              |      | XA344  | 40        |     |      | 16B         | 9    |       |       | TS072A | 02     | TS0720   | 01   | 1      | THI              | E6    |                     | 33B                |                    |        |
| 15854         |        | XA342     | 66                              |      | XA134  | 77        |     |      | 16B         | 9    |       |       | TS03C0 | 04     | TS03C0   | 00   | 1      | THI              | E1    |                     | 32A                | STATE S03 F/F UN   |        |
| 02577         |        | XA342     | 67                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 15963         |        | XA342     | 68                              |      |        |           |     |      |             |      |       |       | TS0720 | 06     | TS0720   | 00   | 1      | THI              | E6    |                     | 32B                | OUTPUT NO ERROR    |        |
| 16085         |        | XA342     | 69                              |      | XA346  | 55        |     |      | 16B         | 9    |       |       | TS13BP | 01     | TS13C0   | 01   | 1      | THI              | F3    |                     | 35B                |                    |        |
| 16108         |        | XA342     | 70                              |      | XA344  | 75        |     |      | 16B         | 9    |       |       | TS13C0 | 09     | TS13C0   | 00   | 1      | THI              | F3    |                     | 34B                | STATE S13 F/F UN   |        |
| 16083         |        | XA342     | 71                              |      | XA347  | 18        |     |      | 16B         | 9    |       |       | TS1200 | 01     | TS1200   | 00   | 1      | THI              | F2    |                     | 36B                | SEL S12 CONDITIO   |        |
| 16141         |        | XA342     | 72                              |      | XA150  | 79        |     |      | 16B         | 9    |       |       | TS14C0 | 01     | TS14C0   | 00   | 1      | THI              | F4    |                     | 34A                | S14 UNLOAD         |        |
| 16052         |        | XA342     | 73                              |      | XA346  | 01        |     |      | 16B         | 9    |       |       | TS11MA | 01     | TS1200   | 01   | 1      | THI              | F2    |                     | 37B                |                    |        |
| 16130         |        | XA342     | 74                              |      | XA347  | 33        |     |      | 16B         | 9    |       |       | TS14BP | 01     | TS14C0   | 01   | 1      | THI              | F4    |                     | 35A                |                    |        |
| 16232         |        | XA342     | 75                              |      |        |           |     |      |             |      |       |       | TS1760 | 02     | TS176A   | 01   | 1      | THI              | F6    |                     | 39A                |                    |        |
| 16180         |        | XA342     | 76                              |      | XA351  | 79        |     |      | 16B         | 9    |       |       | TS16BP | 01     | TS16C0   | 01   | 1      | THI              | F5    |                     | 37A                |                    |        |
| 16230         |        | XA342     | 77                              |      |        |           |     |      |             |      |       |       | TS176A | 02     | TS176A   | 00   | 1      | THI              | F6    |                     | 38A                | S00 +S17 +S26      |        |
| 16198         |        | XA342     | 78                              |      | XA340  | 65        |     |      | 16B         | 9    |       |       | TS16C0 | 04     | TS16C0   | 00   | 1      | THI              | F5    |                     | 36A                | STATE S16 F/F UN   |        |
| 14598         |        | XA342     | 79                              |      | XA149  | 52        |     |      | 16B         | 9    |       |       | TM357A | 01     | TS0800   | 01   | 1      | THI              | F1    |                     | 39B                |                    |        |
| 15984         |        | XA342     | 80                              |      |        |           |     |      |             |      |       |       | TS0800 | 02     | TS0800   | 00   | 1      | THI              | F1    |                     | 38B                | SEL S08            |        |
| 16035         |        | XA343     | 01                              |      |        |           |     |      |             |      |       |       | TS102A | 03     | TS1000   | 01   | 1      | TT3              | A2    |                     | 02B                |                    |        |
| 02578         |        | XA343     | 02                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TT3              |       |                     | 01B                |                    |        |
| 16031         |        | XA343     | 03                              |      | XA340  | 74        |     |      | 16B         | 9    |       |       | TS101A | 02     | TS1000   | 01   | 2      | TT3              | A2    |                     | 02A                |                    |        |
| 15999         |        | XA343     | 04                              |      | XA347  | 08        |     |      | 16B         | 9    |       |       | TS0900 | 01     | TS0900   | 00   | 1      | TT3              | A1    |                     | 04A                | SEL S09 CONDITIO   |        |
| CONNECTOR     |        | XA343     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA343  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 245

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | POS | PREFIX | CONNECTOR | PIN | POS | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 16537         |        | XA343     | 05                              |     |        | XA350     | 21  |     |             | 16B  | 9     |       | TS9M3A | 01     | TS1000   | 01   | 3      | TT3              | A2    |                     | 03B                |                    |        |
| 16007         |        | XA343     | 06                              |     |        |           |     |     |             |      |       |       | TS093A | 02     | TS0900   | 01   | 1      | TT3              | A1    |                     | 05A                |                    |        |
| 16029         |        | XA343     | 07                              |     |        |           |     |     |             |      |       |       | TS1000 | 02     | TS100J   | 00   | 1      | TT3              | A2    |                     | 03A                | SEL S10            |        |
| 16002         |        | XA343     | 08                              |     |        |           |     |     |             |      |       |       | TS091A | 02     | TS0900   | 01   | 2      | TT3              | A1    |                     | 06A                |                    |        |
| 11927         |        | XA343     | 09                              |     | XA248  | 43        |     |     |             | 16B  | 9     |       | TD18BP | 01     | TS114A   | 01   | 1      | TT3              | A3    |                     | 04B                |                    |        |
| 16003         |        | XA343     | 10                              |     | XA349  | 21        |     |     |             | 16B  | 9     |       | TS092A | 01     | TS0900   | 01   | 3      | TT3              | A1    |                     | 07A                |                    |        |
| 09694         |        | XA343     | 11                              |     | XA349  | 19        |     |     |             | 16B  | 9     |       | TCD170 | 06     | TS114A   | 01   | 2      | TT3              | A3    |                     | 05B                |                    |        |
| 00546         |        | XA343     | 12                              |     |        |           |     |     |             |      |       |       | +5V    | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 16244         |        | XA343     | 13                              |     | XA246  | 79        |     |     |             | 16B  | 9     |       | TS18BQ | 06     | TS114A   | 01   | 3      | TT3              | A3    |                     | 06B                |                    |        |
| 15878         |        | XA343     | 14                              |     | XA149  | 40        |     |     |             | 16B  | 9     |       | TS04BQ | 06     | TS132A   | 01   | 1      | TT3              | B2    |                     | 09A                |                    |        |
| 16064         |        | XA343     | 15                              |     | XA345  | 43        |     |     |             | 16B  | 9     |       | TS114A | 01     | TS114A   | 00   | 1      | TT3              | A3    |                     | 07B                | NO Q .NO PE S18    |        |
| 02579         |        | XA343     | 16                              |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TT3              |       |                     | 21B                |                    |        |
| 09211         |        | XA343     | 17                              |     | XA423  | 64        |     |     |             | 16B  | 9     |       | TBST2Q | 06     | TS132A   | 01   | 2      | TT3              | B2    |                     | 08B                |                    |        |
| 09170         |        | XA343     | 18                              |     | XA333  | 43        |     |     |             | 16B  | 9     |       | TBST1P | 07     | TS132A   | 01   | 3      | TT3              | B2    |                     | 10A                |                    |        |
| 16124         |        | XA343     | 19                              |     | XA345  | 54        |     |     |             | 16B  | 9     |       | TS132A | 01     | TS132A   | 00   | 1      | TT3              | B2    |                     | 09B                | BOOTSTRAP AFTER    |        |
| 16112         |        | XA343     | 20                              |     | XA330  | 06        |     |     |             | 16B  | 9     |       | TS131A | 02     | TS131A   | 00   | 1      | TT3              | B1    |                     | 11A                | S13 AND INPUT RE   |        |
| 16174         |        | XA343     | 21                              |     | XA346  | 14        |     |     |             | 16B  | 9     |       | TS151A | 01     | TS1500   | 01   | 1      | TT3              | B3    |                     | 10B                |                    |        |
| 16097         |        | XA343     | 22                              |     | XA347  | 37        |     |     |             | 16B  | 9     |       | TS13BQ | 04     | TS131A   | 01   | 1      | TT3              | B1    |                     | 12A                |                    |        |
| 16148         |        | XA343     | 23                              |     |        |           |     |     |             |      |       |       | TS14EA | 02     | TS1500   | 01   | 2      | TT3              | B3    |                     | 11B                |                    |        |
| 14624         |        | XA343     | 24                              |     | XA139  | 56        |     |     |             | 16B  | 9     |       | TNIABO | 01     | TS131A   | 01   | 2      | TT3              | B1    |                     | 13A                |                    |        |
| 16169         |        | XA343     | 25                              |     | XA344  | 74        |     |     |             | 16B  | 9     |       | TS15EA | 02     | TS1500   | 01   | 3      | TT3              | B3    |                     | 12B                |                    |        |
| 13383         |        | XA343     | 26                              |     |        |           |     |     |             |      |       |       | TINPTO | 02     | TS131A   | 01   | 3      | TT3              | B1    |                     | 14A                |                    |        |
| 16173         |        | XA343     | 27                              |     |        |           |     |     |             |      |       |       | TS1500 | 02     | TS1500   | 00   | 1      | TT3              | B3    |                     | 13B                | SEL S15            |        |
| 00547         |        | XA343     | 28                              |     |        |           |     |     |             |      |       |       | +5V    | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 15454         |        | XA343     | 29                              |     |        |           |     |     |             |      |       |       | TRO1BP | 06     | TROWAA   | 01   | 1      | TT3              | C2    |                     | 14B                |                    |        |
| 15443         |        | XA343     | 30                              |     | XA443  | 13        |     |     |             | 16B  | 9     |       | TRO0BS | 01     | TROWAA   | 01   | 2      | TT3              | C2    |                     | 15A                |                    |        |
| 15435         |        | XA343     | 31                              |     | XA435  | 62        |     |     |             | 16B  | 9     |       | TROWAA | 01     | TROWAA   | 00   | 1      | TT3              | C2    |                     | 15B                |                    |        |
| 02580         |        | XA343     | 32                              |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TT3              |       |                     | 27A                |                    |        |
| 16417         |        | XA343     | 33                              |     |        |           |     |     |             |      |       |       | TS26BP | 02     | TS1760   | 01   | 1      | TT3              | C3    |                     | 16B                |                    |        |
| 15460         |        | XA343     | 34                              |     | XA340  | 57        |     |     |             | 16B  | 9     |       | TRO2BR | 01     | TROWAA   | 01   | 3      | TT3              | C2    |                     | 16A                |                    |        |
| 15742         |        | XA343     | 35                              |     | XA143  | 64        |     |     |             | 16B  | 9     |       | TS00BP | 07     | TS1760   | 01   | 2      | TT3              | C3    |                     | 17B                |                    |        |
| 16177         |        | XA343     | 36                              |     |        |           |     |     |             |      |       |       | TS1520 | 02     | TS1520   | 00   | 1      | TT3              | C1    |                     | 17A                | S11 + S15 + S20    |        |
| 16214         |        | XA343     | 37                              |     | XA330  | 34        |     |     |             | 16B  | 9     |       | TS17BP | 05     | TS1760   | 01   | 3      | TT3              | C3    |                     | 18B                |                    |        |
| 16283         |        | XA343     | 38                              |     | XA344  | 49        |     |     |             | 16B  | 9     |       | TS20BP | 05     | TS1520   | 01   | 1      | TT3              | C1    |                     | 18A                |                    |        |
| 16231         |        | XA343     | 39                              |     | XA342  | 75        |     |     |             | 16B  | 9     |       | TS1760 | 01     | TS1760   | 00   | 1      | TT3              | C3    |                     | 19B                | S00 + S17 +S26     |        |
| 16159         |        | XA343     | 40                              |     | XA344  | 52        |     |     |             | 16B  | 9     |       | TS15BP | 03     | TS1520   | 01   | 2      | TT3              | C1    |                     | 19A                |                    |        |
| 14936         |        | XA343     | 41                              |     | XA341  | 30        |     |     |             | 16B  | 9     |       | TP0470 | 01     | TPE70A   | 01   | 1      | TT3              | D2    |                     | 22B                |                    |        |
| 16041         |        | XA343     | 42                              |     | XA347  | 23        |     |     |             | 16B  | 9     |       | TS11BP | 03     | TS1520   | 01   | 3      | TT3              | C1    |                     | 20A                |                    |        |
| 14734         |        | XA343     | 43                              |     | XA341  | 29        |     |     |             | 16B  | 9     |       | TPE70A | 02     | TPE70A   | 00   | 1      | TT3              | D2    |                     | 23B                | PARITY 0-3 EVEN,   |        |
| 02581         |        | XA343     | 44                              |     |        |           |     |     |             |      |       |       | GND    | 01     |          |      |        | TT3              |       |                     | 40A                |                    |        |
| 16269         |        | XA343     | 45                              |     |        |           |     |     |             |      |       |       | TS192A | 02     | TS1900   | 01   | 1      | TT3              | D3    |                     | 24B                |                    |        |
| 14715         |        | XA343     | 46                              |     | XA341  | 40        |     |     |             | 16B  | 9     |       | TPE30A | 01     | TPE70A   | 01   | 2      | TT3              | D2    |                     | 21A                |                    |        |
| 16267         |        | XA343     | 47                              |     |        |           |     |     |             |      |       |       | TS191A | 02     | TS1900   | 01   | 2      | TT3              | D3    |                     | 25B                |                    |        |
| 14703         |        | XA343     | 48                              |     | XA341  | 42        |     |     |             | 16B  | 9     |       | TPE03A | 01     | TPE70A   | 01   | 3      | TT3              | D2    |                     | 22A                |                    |        |
| 08422         |        | XA343     | 49                              |     | XA327  | 30        |     |     |             | 16B  | 9     |       | TAVERA | 01     | TS1900   | 01   | 3      | TT3              | D3    |                     | 26B                |                    |        |
| 14707         |        | XA343     | 50                              |     | XA340  | 68        |     |     |             | 16B  | 9     |       | TPE07A | 02     | TPE07A   | 00   | 1      | TT3              | D1    |                     | 23A                | PARITY 0-3 ODD,    |        |
| 16264         |        | XA343     | 51                              |     | XA347  | 77        |     |     |             | 16B  | 9     |       | TS1900 | 01     | TS1900   | 00   | 1      | TT3              | D3    |                     | 27B                | SEL S19            |        |
| 14738         |        | XA343     | 52                              |     |        |           |     |     |             |      |       |       | TPE74A | 03     | TPE07A   | 01   | 1      | TT3              | D1    |                     | 24A                |                    |        |
| 05788         |        | XA343     | 53                              |     | XA344  | 55        |     |     |             | 16B  | 9     |       | SPI031 | 09     | TS211A   | 01   | 1      | TT3              | E2    |                     | 28B                |                    |        |
| 14909         |        | XA343     | 54                              |     | XA341  | 38        |     |     |             | 16B  | 9     |       | TPO030 | 01     | TPE07A   | 01   | 2      | TT3              | D1    |                     | 25A                |                    |        |
| CONNECTOR     |        | XA343     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA343  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 246

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERT | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION                | ECO NO           |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|-----------------------------------|------------------|
|               | PREFIX | CONNECTOR | PIN                             | ZONE | PREFIX | CONNECTOR | PIN | ZONE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                                   |                  |
| 16329         | XA343  |           | 55                              |      | XA351  |           | 56  |      |             | 16B  | 9     |       | TS211A | 01     | TS211A   | 00   | 1      | TT3              | E2    |                     | 29B                | MEM TIME OUT                      |                  |
| 14724         | XA343  |           | 56                              |      | XA341  |           | 34  |      |             | 16B  | 9     |       | TPE47A | 01     | TPE07A   | 01   | 3      | TT3              | D1    |                     | 26A                |                                   |                  |
| 16289         | XA343  |           | 57                              |      |        |           |     |      |             |      |       |       | TS208Q | 04     | TS212A   | 01   | 1      | TT3              | E3    |                     | 30B                |                                   |                  |
| 02582         | XA343  |           | 58                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TT3              |       |                     | 40B                |                                   |                  |
| 09122         | XA343  |           | 59                              |      | XA343  |           | 79  |      |             | 16B  | 9     |       | TBRSTP | 03     | TS212A   | 01   | 2      | TT3              | E3    |                     | 31B                |                                   |                  |
| 16340         | XA343  |           | 60                              |      |        |           |     |      |             |      |       |       | TS2140 | 02     | TS211A   | 01   | 2      | TT3              | E2    |                     | 28A                |                                   |                  |
| 14523         | XA343  |           | 61                              |      | XA341  |           | 74  |      |             | 16B  | 9     |       | TM03C0 | 07     | TS212A   | 01   | 3      | TT3              | E3    |                     | 32B                |                                   |                  |
| 16294         | XA343  |           | 62                              |      | XA349  |           | 59  |      |             | 16B  | 9     |       | TS201A | 02     | TS211A   | 01   | 3      | TT3              | E2    |                     | 29A                |                                   |                  |
| 16333         | XA343  |           | 63                              |      |        |           |     |      |             |      |       |       | TS212A | 02     | TS212A   | 00   | 1      | TT3              | E3    |                     | 33B                | S20.M3.BURST NOT SEL S20          |                  |
| 16227         | XA343  |           | 64                              |      | XA346  |           | 42  |      |             | 16B  | 9     |       | TS171A | 02     | TS171A   | 00   | 1      | TT3              | E1    |                     | 30A                |                                   |                  |
| 09218         | XA343  |           | 65                              |      | XA343  |           | 78  |      |             | 16B  | 9     |       | TBST20 | 06     | TS7BZA   | 01   | 1      | TT3              | F2    |                     | 34B                |                                   |                  |
| 13337         | XA343  |           | 66                              |      | XA346  |           | 31  |      |             | 16B  | 9     |       | TINDBQ | 01     | TS171A   | 01   | 1      | TT3              | E1    |                     | 31A                |                                   |                  |
| 02583         | XA343  |           | 67                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TT3              |       |                     |                    |                                   |                  |
| 16297         | XA343  |           | 68                              |      | XA305  |           | 62  |      |             | 16B  | 9     |       | TS202A | 02     | TS171A   | 01   | 2      | TT3              | E1    |                     | 32A                |                                   |                  |
| 09767         | XA343  |           | 69                              |      |        |           |     |      |             |      |       |       | TCMP40 | 03     | TS77AA   | 01   | 1      | TT3              | F3    |                     | 35A                |                                   |                  |
| 16508         | XA343  |           | 70                              |      | XA349  |           | 35  |      |             | 16B  | 9     |       | TS4610 | 01     | TS171A   | 01   | 3      | TT3              | E1    |                     | 33A                |                                   |                  |
| 08921         | XA343  |           | 71                              |      |        |           |     |      |             |      |       |       | TBLEZ0 | 02     | TS7BZA   | 01   | 2      | TT3              | F2    |                     | 36A                |                                   |                  |
| 15942         | XA343  |           | 72                              |      | XA339  |           | 78  |      |             | 16B  | 9     |       | TS07BQ | 06     | TS7BZA   | 01   | 3      | TT3              | F2    |                     | 34A                |                                   |                  |
| 16501         | XA343  |           | 73                              |      |        |           |     |      |             |      |       |       | TS4N1A | 02     | TS4N1A   | 00   | 1      | TT3              | F1    |                     | 36B                | S4.NOT INPUT .NO S7.BL=0.NOT BOOT |                  |
| 16522         | XA343  |           | 74                              |      |        |           |     |      |             |      |       |       | TS7BZA | 02     | TS7BZA   | 00   | 1      | TT3              | F2    |                     | 35B                |                                   |                  |
| 15876         | XA343  |           | 75                              |      | XA339  |           | 43  |      |             | 16B  | 9     |       | TS048Q | 04     | TS4N1A   | 01   | 1      | TT3              | F1    |                     | 37B                |                                   |                  |
| 15994         | XA343  |           | 76                              |      | XA340  |           | 75  |      |             | 16B  | 9     |       | TS09BQ | 08     | TS77AA   | 01   | 2      | TT3              | F3    |                     | 37A                |                                   |                  |
| 11724         | XA343  |           | 77                              |      |        |           |     |      |             |      |       |       | TD12BP | 05     | TS4N1A   | 01   | 2      | TT3              | F1    |                     | 38B                |                                   |                  |
| 09219         | XA343  |           | 78                              |      |        |           |     |      |             |      |       |       | TBST20 | 07     | TS77AA   | 01   | 3      | TT3              | F3    |                     | 38A                |                                   |                  |
| 09123         | XA343  |           | 79                              |      | XA349  |           | 75  |      |             | 16B  | 9     |       | TBRSTP | 04     | TS4N1A   | 01   | 3      | TT3              | F1    |                     | 39B                |                                   |                  |
| 16525         | XA343  |           | 80                              |      | XA428  |           | 23  |      |             | 16B  | 9     |       | TS77AA | 03     | TS77AA   | 00   | 1      | TT3              | F3    |                     | 39A                |                                   | SET LEVEL 77     |
| 15778         | XA344  |           | 01                              |      | XA341  |           | 52  |      |             | 16B  | 9     |       | TS008A | 02     | TS0010   | 01   | 1      | TS8              | A1    |                     | 02B                |                                   |                  |
| 02584         | XA344  |           | 02                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     | 01A                |                                   |                  |
| 01320         | XA344  |           | 03                              |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                                   |                  |
| 15775         | XA344  |           | 04                              |      | XA248  |           | 38  |      |             | 16B  | 9     |       | TS007A | 03     | TS0010   | 01   | 2      | TS8              | A1    |                     | 04A                |                                   |                  |
| 15767         | XA344  |           | 05                              |      |        |           |     |      |             |      |       |       | TS004A | 03     | TS0010   | 01   | 3      | TS8              | A1    |                     | 03B                |                                   |                  |
| 15764         | XA344  |           | 06                              |      |        |           |     |      |             |      |       |       | TS003A | 02     | TS0010   | 01   | 4      | TS8              | A1    |                     | 05A                |                                   |                  |
| 15768         | XA344  |           | 07                              |      | XA345  |           | 11  |      |             | 16B  | 9     |       | TS005A | 01     | TS0010   | 01   | 5      | TS8              | A1    |                     | 03A                |                                   |                  |
| 15771         | XA344  |           | 08                              |      | XA325  |           | 35  |      |             | 16B  | 9     |       | TS006A | 02     | TS0010   | 01   | 6      | TS8              | A1    |                     | 06A                |                                   |                  |
| 01321         | XA344  |           | 09                              |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                                   |                  |
| 15781         | XA344  |           | 10                              |      |        |           |     |      |             |      |       |       | TS009A | 02     | TS0010   | 01   | 7      | TS8              | A1    |                     | 07A                |                                   |                  |
| 15757         | XA344  |           | 11                              |      | XA350  |           | 04  |      |             | 16B  | 9     |       | TS0010 | 03     | TS0010   | 00   | 1      | TS8              | A1    |                     | 05B                |                                   | SELECT S00 CONDI |
| 00548         | XA344  |           | 12                              |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        | TS8              |       |                     |                    |                                   |                  |
| 15760         | XA344  |           | 13                              |      |        |           |     |      |             |      |       |       | TS002A | 02     | TS0010   | 01   | 8      | TS8              | A1    |                     | 06B                |                                   |                  |
| 16306         | XA344  |           | 14                              |      | XA245  |           | 79  |      |             | 16B  | 9     |       | TS218P | 03     | TS0020   | 01   | 1      | TS8              | B1    |                     | 09A                |                                   |                  |
| 01322         | XA344  |           | 15                              |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                                   |                  |
| 02585         | XA344  |           | 16                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        | TS8              |       |                     | 21B                |                                   |                  |
| 01323         | XA344  |           | 17                              |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                                   |                  |
| 16524         | XA344  |           | 18                              |      | XA343  |           | 80  |      |             | 16B  | 9     |       | TS77AA | 02     | TS0020   | 01   | 2      | TS8              | B1    |                     | 10A                |                                   |                  |
| 16080         | XA344  |           | 19                              |      | XA341  |           | 72  |      |             | 16B  | 9     |       | TS12PA | 01     | TS0020   | 01   | 3      | TS8              | B1    |                     | 09B                |                                   |                  |
| 05745         | XA344  |           | 20                              |      | XA348  |           | 04  |      |             | 16B  | 9     |       | SPI030 | 03     | TS0020   | 01   | 4      | TS8              | B1    |                     | 11A                |                                   |                  |
| 01324         | XA344  |           | 21                              |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |      |        | TS8              |       |                     |                    |                                   |                  |
| 15800         | XA344  |           | 22                              |      | XA341  |           | 45  |      |             | 16B  | 9     |       | TS010A | 01     | TS0020   | 01   | 5      | TS8              | B1    |                     | 12A                |                                   |                  |
| CONNECTOR     |        | XA344     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                                   |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA344  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 247

| RECORD NUMBER | FROM   |           |                                 | TO | WIRE   |           |     |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND DR | SIGNAL DESCRIPTION | ECO NO           |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|               | PREFIX | CONNECTOR | PIN                             |    | PREFIX | CONNECTOR | PIN | SH TS |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 15761         |        | XA344     | 23                              |    | XA342  | 47        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    | STATE S9 + S12 +   |                  |
| 16471         |        | XA344     | 24                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 05814         |        | XA344     | 25                              |    | XA342  | 11        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 15996         |        | XA344     | 26                              |    | XA340  | 73        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 01325         |        | XA344     | 27                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 00549         |        | XA344     | 28                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 01326         |        | XA344     | 29                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 15952         |        | XA344     | 30                              |    | XA330  | 10        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 15969         |        | XA344     | 31                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 02586         |        | XA344     | 32                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 01327         |        | XA344     | 33                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 15965         |        | XA344     | 34                              |    | XA250  | 74        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    | C05              |
| 15950         |        | XA344     | 35                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 05811         |        | XA344     | 36                              |    | XA342  | 36        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    | SEL S07 CONDITIO |
| 15971         |        | XA344     | 37                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 05683         |        | XA344     | 38                              |    | XA344  | 61        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 01328         |        | XA344     | 39                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 15956         |        | XA344     | 40                              |    | XA333  | 35        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 01329         |        | XA344     | 41                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 05756         |        | XA344     | 42                              |    | XA344  | 48        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 15935         |        | XA344     | 43                              |    | XA145  | 23        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 02587         |        | XA344     | 44                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 01330         |        | XA344     | 45                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 05682         |        | XA344     | 46                              |    | XA344  | 38        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 16038         |        | XA344     | 47                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 05757         |        | XA344     | 48                              |    | XA344  | 60        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 16284         |        | XA344     | 49                              |    | XA347  | 69        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 16213         |        | XA344     | 50                              |    | XA343  | 37        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 01331         |        | XA344     | 51                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 16160         |        | XA344     | 52                              |    | XA347  | 47        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 01332         |        | XA344     | 53                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 05790         |        | XA344     | 54                              |    | XA346  | 59        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 05789         |        | XA344     | 55                              |    | XA344  | 54        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 15782         |        | XA344     | 56                              |    | XA342  | 50        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 01333         |        | XA344     | 57                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 02588         |        | XA344     | 58                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 16055         |        | XA344     | 59                              |    | XA347  | 24        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 05758         |        | XA344     | 60                              |    | XA346  | 61        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 05684         |        | XA344     | 61                              |    | XA334  | 70        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 16067         |        | XA344     | 62                              |    | XA346  | 09        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 01334         |        | XA344     | 63                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 16066         |        | XA344     | 64                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 01335         |        | XA344     | 65                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 16060         |        | XA344     | 66                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 02589         |        | XA344     | 67                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 16063         |        | XA344     | 68                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 01336         |        | XA344     | 69                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 16058         |        | XA344     | 70                              |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |
| 08833         |        | XA344     | 71                              |    | XA346  | 11        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| 16226         |        | XA344     | 72                              |    | XA343  | 64        |     |       | 16B    | 9      |          |      |        |                  |       |                     |                    |                    |                  |
| CONNECTOR     |        | XA344     | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |       |        |        |          |      |        |                  |       |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA344  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 248

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | IN TO | PREFIX | CONNECTOR | PIN | IN TO | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 16150   |        | XA344     | 73  |       |        |           |     |       |             |      |       |       | TS14MA  | 02     | TS134A   | 01   | 3      | TS8              | F1    |                     | 36B                |                    |        |
| 16170   |        | XA344     | 74  |       | XA327  | 73        |     |       |             | 16B  | 9     |       | TS15EA  | 03     | TS134A   | 01   | 4      | TS8              | F1    |                     | 35B                |                    |        |
| 16109   |        | XA344     | 75  |       | XA348  | 19        |     |       |             | 16B  | 9     |       | TS13C0  | 10     | TS134A   | 01   | 5      | TS8              | F1    |                     | 37B                |                    |        |
| 16128   |        | XA344     | 76  |       | XA345  | 49        |     |       |             | 16B  | 9     |       | TS134A  | 01     | TS134A   | 00   | 1      | TS8              | F1    |                     | 37A                | S13 NO XFER COND   |        |
| 15968   |        | XA344     | 77  |       | XA344  | 31        |     |       |             | 16B  | 9     |       | TS074A  | 02     | TS134A   | 01   | 6      | TS8              | F1    |                     | 38B                |                    |        |
| 15766   |        | XA344     | 78  |       | XA344  | 05        |     |       |             | 16B  | 9     |       | TS004A  | 02     | TS134A   | 01   | 7      | TS8              | F1    |                     | 38A                |                    |        |
| 13488   |        | XA344     | 79  |       | XA345  | 64        |     |       |             | 16B  | 9     |       | TTTONA  | 01     | TS134A   | 01   | 8      | TS8              | F1    |                     | 39B                |                    |        |
| 01337   |        | XA344     | 80  |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 14601   |        | XA345     | 01  |       | XA346  | 07        |     |       |             | 16B  | 9     |       | TM3T0A  | 02     | TS093A   | 01   | 1      | T04              | A2    |                     | 02B                |                    |        |
| 02590   |        | XA345     | 02  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 01A                |                    |        |
| 01338   |        | XA345     | 03  |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 15263   |        | XA345     | 04  |       | XA248  | 56        |     |       |             | 16B  | 9     |       | TRC160  | 02     | TS093A   | 01   | 2      | T04              | A2    |                     | 04A                |                    |        |
| 15992   |        | XA345     | 05  |       | XA345  | 25        |     |       |             | 16B  | 9     |       | TS09BQ  | 06     | TS093A   | 01   | 3      | T04              | A2    |                     | 03B                |                    |        |
| 13409   |        | XA345     | 06  |       | XA345  | 71        |     |       |             | 16B  | 9     |       | TIPEBP  | 01     | TS005A   | 01   | 1      | T04              | A1    |                     | 05A                |                    |        |
| 10377   |        | XA345     | 07  |       | XA322  | 46        |     |       |             | 16B  | 9     |       | TC188Q  | 02     | TS093A   | 01   | 4      | T04              | A2    |                     | 03A                |                    |        |
| 14589   |        | XA345     | 08  |       |        |           |     |       |             |      |       |       | TM3BS0  | 02     | TS005A   | 01   | 2      | T04              | A1    |                     | 06A                |                    |        |
| 16006   |        | XA345     | 09  |       | XA343  | 06        |     |       |             | 16B  | 9     |       | TS093A  | 01     | TS093A   | 00   | 1      | T04              | A2    |                     | 04B                | S09 NO XFER        |        |
| 16136   |        | XA345     | 10  |       | XA348  | 25        |     |       |             | 16B  | 9     |       | TS14BQ  | 02     | TS005A   | 01   | 3      | T04              | A1    |                     | 07A                |                    |        |
| 15789   |        | XA345     | 11  |       |        |           |     |       |             |      |       |       | TS005A  | 02     | TS005A   | 00   | 1      | T04              | A1    |                     | 05B                | BYTE INPUT         |        |
| 00550   |        | XA345     | 12  |       |        |           |     |       |             |      |       |       | +5V     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 09005   |        | XA345     | 13  |       | XA144  | 23        |     |       |             | 16B  | 9     |       | TBLZAA  | 03     | TS005A   | 01   | 4      | T04              | A1    |                     | 06B                |                    |        |
| 16089   |        | XA345     | 14  |       | XA145  | 35        |     |       |             | 16B  | 9     |       | TS13BP  | 05     | TS2610   | 01   | 1      | T04              | B2    |                     | 09A                |                    |        |
| 01339   |        | XA345     | 15  |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 02591   |        | XA345     | 16  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 01340   |        | XA345     | 17  |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 15913   |        | XA345     | 18  |       | XA346  | 26        |     |       |             | 16B  | 9     |       | TS06BP  | 03     | TS2610   | 01   | 2      | T04              | B2    |                     | 10A                |                    |        |
| 16254   |        | XA345     | 19  |       | XA349  | 42        |     |       |             | 16B  | 9     |       | TS19BP  | 02     | TS2610   | 01   | 3      | T04              | B2    |                     | 09B                |                    |        |
| 15821   |        | XA345     | 20  |       |        |           |     |       |             |      |       |       | TS02BP  | 05     | TS2610   | 01   | 4      | T04              | B2    |                     | 11A                |                    |        |
| 16432   |        | XA345     | 21  |       | XA349  | 61        |     |       |             | 16B  | 9     |       | TS2610  | 01     | TS2610   | 00   | 1      | T04              | B2    |                     | 10B                | S2 + S6 + S13 +    |        |
| 09189   |        | XA345     | 22  |       | XA248  | 54        |     |       |             | 16B  | 9     |       | TBST2A  | 02     | TS112A   | 00   | 1      | T04              | B1    |                     | 12A                |                    |        |
| 16059   |        | XA345     | 23  |       | XA344  | 66        |     |       |             | 16B  | 9     |       | TS112A  | 01     | TS112A   | 00   | 1      | T04              | B1    |                     | 11B                | CH. END NO Q ACC   |        |
| 10370   |        | XA345     | 24  |       | XA322  | 64        |     |       |             | 16B  | 9     |       | TC188P  | 01     | TS112A   | 01   | 2      | T04              | B1    |                     | 13A                |                    |        |
| 15993   |        | XA345     | 25  |       | XA343  | 76        |     |       |             | 16B  | 9     |       | TS09BQ  | 07     | TS112A   | 01   | 3      | T04              | B1    |                     | 12B                |                    |        |
| 15262   |        | XA345     | 26  |       | XA345  | 04        |     |       |             | 16B  | 9     |       | TRC160  | 01     | TS112A   | 01   | 4      | T04              | B1    |                     | 14A                |                    |        |
| 01341   |        | XA345     | 27  |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 00551   |        | XA345     | 28  |       |        |           |     |       |             |      |       |       | +5V     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 01342   |        | XA345     | 29  |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 15947   |        | XA345     | 30  |       |        |           |     |       |             |      |       |       | TS07C0  | 03     | TS075A   | 01   | 1      | T04              | C2    |                     | 15A                |                    |        |
| 14422   |        | XA345     | 31  |       |        |           |     |       |             |      |       |       | TM0BSA  | 03     | TS075A   | 01   | 2      | T04              | C2    |                     | 15B                |                    |        |
| 02592   |        | XA345     | 32  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 21B                |                    |        |
| 15970   |        | XA345     | 33  |       | XA344  | 37        |     |       |             | 16B  | 9     |       | TS075A  | 01     | TS075A   | 00   | 1      | T04              | C2    |                     | 16B                | S07 MO XFER COND   |        |
| 14604   |        | XA345     | 34  |       | XA341  | 76        |     |       |             | 16B  | 9     |       | TM3T0A  | 05     | TS075A   | 01   | 3      | T04              | C2    |                     | 16A                |                    |        |
| 15804   |        | XA345     | 35  |       |        |           |     |       |             |      |       |       | TS012A  | 03     | TS012A   | 00   | 1      | T04              | C1    |                     | 17B                | REQ. XFER TO S01   |        |
| 09012   |        | XA345     | 36  |       | XA349  | 31        |     |       |             | 16B  | 9     |       | TBLZAO  | 05     | TS075A   | 01   | 4      | T04              | C2    |                     | 17A                |                    |        |
| 13304   |        | XA345     | 37  |       | XA432  | 71        |     |       |             | 16B  | 9     |       | TILOBR  | 02     | TS012A   | 01   | 1      | T04              | C1    |                     | 18B                |                    |        |
| 13280   |        | XA345     | 38  |       | XA205  | 24        |     |       |             | 16B  | 9     |       | TIICRTA | 01     | TS012A   | 01   | 2      | T04              | C1    |                     | 18A                |                    |        |
| 01343   |        | XA345     | 39  |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 15290   |        | XA345     | 40  |       | XA435  | 47        |     |       |             | 16B  | 9     |       | TREQB0  | 01     | TS012A   | 01   | 3      | T04              | C1    |                     | 19A                |                    |        |
| CONNECTOR (XA345) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA345  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 249

| RECORD NUMBER | FROM   |                                 |     |     | TO     |           |     |     | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD GR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|---------------------------------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|---------------|--------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | INT | PREFIX | CONNECTOR | PIN | INT | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |      |                  |       |                     |                    |                    |        |
| 01344         |        | XA345                           | 41  |     |        |           |     |     |             |      |       |       | DNW           | 01     |        |          |      |      |                  |       |                     |                    |                    |        |
| 15748         |        | XA345                           | 42  |     | XA348  | 10        |     |     |             | 16B  | 9     |       | TS00BQ        | 05     | TS012A | 01       | 4    | TD4  |                  |       |                     | 20A                |                    |        |
| 16065         |        | XA345                           | 43  |     | XA344  | 64        |     |     |             | 16B  | 9     |       | TS114A        | 02     | TS182A | 01       | 1    | TD4  | D2               |       |                     | 23B                |                    |        |
| 02593         |        | XA345                           | 44  |     |        |           |     |     |             |      |       |       | GND           | 01     |        |          |      | TD4  |                  |       |                     |                    | 27A                |        |
| 16252         |        | XA345                           | 45  |     |        |           |     |     |             |      |       |       | TS182A        | 02     | TS182A | 00       | 1    | TD4  | D2               |       |                     | 24B                | S18 NO XFER        |        |
| 16324         |        | XA345                           | 46  |     | XA205  | 30        |     |     |             | 16B  | 9     |       | TS210A        | 01     | TS182A | 01       | 2    | TD4  | D2               |       |                     | 21A                |                    |        |
| 16119         |        | XA345                           | 47  |     | XA347  | 40        |     |     |             | 16B  | 9     |       | TS1300        | 01     | TS1300 | 00       | 1    | TD4  | D1               |       |                     | 25B                | SEL S13 CONDITIO   |        |
| 16243         |        | XA345                           | 48  |     | XA343  | 13        |     |     |             | 16B  | 9     |       | TS188Q        | 05     | TS182A | 01       | 3    | TD4  | D2               |       |                     | 22A                |                    |        |
| 16129         |        | XA345                           | 49  |     |        |           |     |     |             |      |       |       | TS134A        | 02     | TS1300 | 01       | 1    | TD4  | D1               |       |                     | 26B                |                    |        |
| 16034         |        | XA345                           | 50  |     | XA343  | 01        |     |     |             | 16B  | 9     |       | TS102A        | 02     | TS182A | 01       | 4    | TD4  | D2               |       |                     | 23A                |                    |        |
| 01345         |        | XA345                           | 51  |     |        |           |     |     |             |      |       |       | DNW           | 01     |        |          |      | TD4  |                  |       |                     |                    |                    |        |
| 16122         |        | XA345                           | 52  |     | XA325  | 26        |     |     |             | 16B  | 9     |       | TS131A        | 02     | TS1300 | 01       | 2    | TD4  | D1               |       |                     | 24A                |                    |        |
| 01346         |        | XA345                           | 53  |     |        |           |     |     |             |      |       |       | DNW           | 01     |        |          |      | TD4  |                  |       |                     |                    |                    |        |
| 16125         |        | XA345                           | 54  |     |        |           |     |     |             |      |       |       | TS132A        | 02     | TS1300 | 01       | 3    | TD4  | D1               |       |                     | 25A                |                    |        |
| 09129         |        | XA345                           | 55  |     | XA145  | 33        |     |     |             | 16B  | 9     |       | YBRSTQ        | 02     | TS061A | 01       | 1    | TD4  | E2               |       |                     | 29B                |                    |        |
| 16126         |        | XA345                           | 56  |     | XA340  | 31        |     |     |             | 16B  | 9     |       | TS133A        | 01     | TS1300 | 01       | 4    | TD4  | D1               |       |                     | 26A                |                    |        |
| 15929         |        | XA345                           | 57  |     | XA341  | 61        |     |     |             | 16B  | 9     |       | TS061A        | 01     | TS061A | 00       | 1    | TD4  | E2               |       |                     | 30B                | S06 NO XFER COND   |        |
| 02594         |        | XA345                           | 58  |     |        |           |     |     |             |      |       |       | GND           | 01     |        |          |      | TD4  |                  |       |                     | 40A                |                    |        |
| 15862         |        | XA345                           | 59  |     | XA341  | 68        |     |     |             | 16B  | 9     |       | TS031A        | 02     | TS031A | 00       | 1    | TD4  | E1               |       |                     | 31B                | S02(INF + BURST)   |        |
| 15924         |        | XA345                           | 60  |     | XA342  | 56        |     |     |             | 16B  | 9     |       | TS06C0        | 02     | TS061A | 01       | 2    | TD4  | E2               |       |                     | 28A                |                    |        |
| 15317         |        | XA345                           | 61  |     |        |           |     |     |             |      |       |       | TRQBR0        | 02     | TS031A | 01       | 1    | TD4  | E1               |       |                     | 32B                |                    |        |
| 09103         |        | XA345                           | 62  |     | XA146  | 48        |     |     |             | 16B  | 9     |       | TBRROA        | 01     | TS061A | 01       | 3    | TD4  | E2               |       |                     | 29A                |                    |        |
| 01347         |        | XA345                           | 63  |     |        |           |     |     |             |      |       |       | DNW           | 01     |        |          |      | TD4  |                  |       |                     |                    |                    |        |
| 13489         |        | XA345                           | 64  |     | XA304  | 33        |     |     |             | 16B  | 9     |       | TITONA        | 02     | TS061A | 01       | 4    | TD4  | E2               |       |                     | 30A                |                    |        |
| 01348         |        | XA345                           | 65  |     |        |           |     |     |             |      |       |       | DNW           | 01     |        |          |      | TD4  |                  |       |                     |                    |                    |        |
| 10968         |        | XA345                           | 66  |     |        |           |     |     |             |      |       |       | TDL12A        | 02     | TS031A | 01       | 2    | TD4  | E1               |       |                     | 31A                |                    |        |
| 02595         |        | XA345                           | 67  |     |        |           |     |     |             |      |       |       | GND           | 01     |        |          |      | TD4  |                  |       |                     |                    | 40B                |        |
| 10965         |        | XA345                           | 68  |     | XA122  | 73        |     |     |             | 16B  | 9     |       | TDL11A        | 01     | TS031A | 01       | 3    | TD4  | E1               |       |                     | 32A                |                    |        |
| 15964         |        | XA345                           | 69  |     | XA344  | 34        |     |     |             | 16B  | 9     |       | TS073A        | 01     | TS073A | 00       | 1    | TD4  | F2               |       |                     | 35A                | BL=1 NO PE BYT     |        |
| 15825         |        | XA345                           | 70  |     | XA346  | 54        |     |     |             | 16B  | 9     |       | TS02BQ        | 04     | TS031A | 01       | 4    | TD4  | E1               |       |                     | 33A                |                    |        |
| 13410         |        | XA345                           | 71  |     | XA333  | 70        |     |     |             | 16B  | 9     |       | T1PEBP        | 02     | TS073A | 01       | 1    | TD4  | F2               |       |                     | 36A                |                    |        |
| 16139         |        | XA345                           | 72  |     | XA351  | 71        |     |     |             | 16B  | 9     |       | TS14BQ        | 05     | TS073A | 01       | 2    | TD4  | F2               |       |                     | 34A                |                    |        |
| 09686         |        | XA345                           | 73  |     | XA319  | 62        |     |     |             | 16B  | 9     |       | TC0160        | 08     | TS073A | 01       | 3    | TD4  | F2               |       |                     | 36B                |                    |        |
| 09016         |        | XA345                           | 74  |     | XA333  | 64        |     |     |             | 16B  | 9     |       | TBLZA0        | 09     | TS073A | 01       | 4    | TD4  | F2               |       |                     | 35B                |                    |        |
| 14614         |        | XA345                           | 75  |     | XA349  | 74        |     |     |             | 16B  | 9     |       | TMSBR0        | 01     | TS071A | 01       | 1    | TD4  | F1               |       |                     | 37B                |                    |        |
| 15951         |        | XA345                           | 76  |     | XA344  | 30        |     |     |             | 16B  | 9     |       | TS071A        | 01     | TS071A | 00       | 1    | TD4  | F1               |       |                     | 37A                | ALARM MODE, NO IN  |        |
| 13355         |        | XA345                           | 77  |     | XA349  | 68        |     |     |             | 16B  | 9     |       | TIN0CA        | 07     | TS071A | 01       | 2    | TD4  | F1               |       |                     | 38B                |                    |        |
| 14065         |        | XA345                           | 78  |     |        |           |     |     |             |      |       |       | TMDAA0        | 02     | TS071A | 01       | 3    | TD4  | F1               |       |                     | 38A                |                    |        |
| 15881         |        | XA345                           | 79  |     | XA349  | 52        |     |     |             | 16B  | 9     |       | TS04C0        | 02     | TS071A | 01       | 4    | TD4  | F1               |       |                     | 39B                |                    |        |
| 01349         |        | XA345                           | 80  |     |        |           |     |     |             |      |       |       | DNW           | 01     |        |          |      | TD4  |                  |       |                     |                    |                    |        |
| 16053         |        | XA346                           | 01  |     |        |           |     |     |             |      |       |       | TS11MA        | 02     | TS11MA | 00       | 1    | TQ2  | A2               |       |                     | 02B                | S11 AND M3         |        |
| 02596         |        | XA346                           | 02  |     |        |           |     |     |             |      |       |       | GND           | 01     |        |          |      | TQ2  |                  |       |                     | 01A                |                    |        |
| 16043         |        | XA346                           | 03  |     | XA346  | 04        |     |     |             | 16B  | 9     |       | TS11BQ        | 01     | TS115A | 01       | 1    | TQ2  | A3               |       |                     | 02A                |                    |        |
| 16044         |        | XA346                           | 04  |     | XA348  | 07        |     |     |             | 16B  | 9     |       | TS11BQ        | 02     | TS11MA | 01       | 1    | TQ2  | A2               |       |                     | 04A                |                    |        |
| 14518         |        | XA346                           | 05  |     | XA349  | 01        |     |     |             | 16B  | 9     |       | TMO3C0        | 02     | TS11MA | 01       | 2    | TQ2  | A2               |       |                     | 03B                |                    |        |
| 16001         |        | XA346                           | 06  |     | XA343  | 08        |     |     |             | 16B  | 9     |       | TS091A        | 01     | TS091A | 00       | 1    | TQ2  | A1               |       |                     | 05A                | S08 AND NO PE      |        |
| 14602         |        | XA346                           | 07  |     | XA346  | 20        |     |     |             | 16B  | 9     |       | TM3T0A        | 03     | TS115A | 01       | 2    | TQ2  | A3               |       |                     | 03A                |                    |        |
| 14666         |        | XA346                           | 08  |     | XA351  | 72        |     |     |             | 16B  | 9     |       | TPEM1A        | 05     | TS091A | 01       | 1    | TQ2  | A1               |       |                     | 06A                |                    |        |
| CONNECTOR     | XA346  | CONTINUED ON THE NEXT PAGE **** |     |     |        |           |     |     |             |      |       |       |               |        |        |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA346  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 250

| RECORD NUMBER                                    | FROM   |           |     | TO | WIRE   |           |     |        | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION       | ECO NO |             |
|--|--------|-----------|-----|----|--------|-----------|-----|--------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------------|--------|-------------|
|  | PREFIX | CONNECTOR | PIN |    | PREFIX | CONNECTOR | PIN | SH FTG |        |        |          |        |        |                  |       |                     |                    |                          |        | MULTI GROUP |
| 16068  |        | XA346     | 09  |    |        |           |     |        |        | TS115A | 02       | TS115A | 03     | 1                | TQ2   | A3                  | 04B                | S11.NOT M3               |        |             |
| 15977  |        | XA346     | 10  |    | XA351  | 61        |     |        |        | TS08BQ | 02       | TS091A | 01     | 2                | TQ2   | A1                  | 07A                |                          |        |             |
| 08834  |        | XA346     | 11  |    | XA150  | 51        |     |        |        | TBD15A | 04       | TS1400 | 01     | 1                | TQ2   | A4                  | 05B                |                          |        |             |
| 00552  |        | XA346     | 12  |    |        |           |     |        |        | +5V    | 01       |        |        |                  |       |                     |                    |                          |        |             |
| 16149  |        | XA346     | 13  |    | XA344  | 73        |     |        |        | TS14MA | 01       | TS1400 | 01     | 2                | TQ2   | A4                  | 06B                | S15.NOT M3+MEM TI        |        |             |
| 16175  |        | XA346     | 14  |    |        |           |     |        |        | TS151A | 02       | TS151A | 00     | 1                | TQ2   | B2                  | 09A                |                          |        |             |
| 16154  |        | XA346     | 15  |    |        |           |     |        |        | TS1400 | 02       | TS1400 | 03     | 1                | TQ2   | A4                  | 07B                | SEL S14, S13.BYT         |        |             |
| 02597  |        | XA346     | 16  |    |        |           |     |        |        | GND    | 01       |        |        |                  | TQ2   |                     | 01B                |                          |        |             |
| 16176  |        | XA346     | 17  |    | XA343  | 36        |     |        |        | TS1520 | 01       | TS153A | 01     | 1                | TQ2   | B3                  | 08B                |                          |        |             |
| 16163  |        | XA346     | 18  |    | XA348  | 29        |     |        |        | TS15BQ | 02       | TS151A | 01     | 1                | TQ2   | B2                  | 10A                |                          |        |             |
| 09203  |        | XA346     | 19  |    | XA349  | 34        |     |        |        | TBST2P | 05       | TS153A | 01     | 2                | TQ2   | B3                  | 09B                |                          |        |             |
| 14603  |        | XA346     | 20  |    | XA345  | 34        |     |        |        | TM3TOA | 04       | TS151A | 01     | 2                | TQ2   | B2                  | 11A                |                          |        |             |
| 16179  |        | XA346     | 21  |    |        |           |     |        |        | TS153A | 02       | TS153A | 00     | 1                | TQ2   | B3                  | 10B                | S11+S15+S20 AND NOT USED |        |             |
| 16156  |        | XA346     | 22  |    |        |           |     |        |        | TS1460 | 02       | TS1460 | 00     | 1                | TQ2   | B1                  | 12A                |                          |        |             |
| 16206  |        | XA346     | 23  |    | XA247  | 59        |     |        |        | TS162A | 01       | TS1600 | 01     | 1                | TQ2   | B4                  | 11B                |                          |        |             |
| 16132  |        | XA346     | 24  |    | XA250  | 66        |     |        |        | TS14BP | 03       | TS1460 | 01     | 1                | TQ2   | B1                  | 13A                |                          |        |             |
| 16209  |        | XA346     | 25  |    | XA250  | 75        |     |        |        | TS163A | 02       | TS1600 | 01     | 2                | TQ2   | B4                  | 12B                |                          | C05    |             |
| 15914  |        | XA346     | 26  |    | XA349  | 38        |     |        |        | TS06BP | 04       | TS1460 | 01     | 2                | TQ2   | B1                  | 14A                |                          |        |             |
| 16202  |        | XA346     | 27  |    | XA347  | 48        |     |        |        | TS1600 | 01       | TS1600 | 03     | 1                | TQ2   | B4                  | 13B                | SEL S16 CONDITIO         |        |             |
| 00553  |        | XA346     | 28  |    |        |           |     |        |        | +5V    | 01       |        |        |                  |       |                     |                    |                          |        |             |
| 16260  |        | XA346     | 29  |    |        |           |     |        |        | TS19BQ | 04       | TS191A | 01     | 1                | TQ2   | C3                  | 14B                |                          |        |             |
| 16248  |        | XA346     | 30  |    |        |           |     |        |        | TS1800 | 02       | TS1800 | 00     | 1                | TQ2   | C2                  | 15A                | SEL S18 CONDITIO         |        |             |
| 13338  |        | XA346     | 31  |    | XA238  | 78        |     |        |        | TIND8Q | 02       | TS191A | 01     | 2                | TQ2   | C3                  | 15B                |                          |        |             |
| 02598  |        | XA346     | 32  |    |        |           |     |        |        | GND    | 01       |        |        |                  |       |                     | 20B                |                          |        |             |
| 16262  |        | XA346     | 33  |    |        |           |     |        |        | TS191A | 02       | TS191A | 00     | 1                | TQ2   | C3                  | 16B                | S19 AND IND              |        |             |
| 16250  |        | XA346     | 34  |    |        |           |     |        |        | TS181A | 02       | TS1800 | 01     | 1                | TQ2   | C2                  | 16A                |                          |        |             |
| 13368  |        | XA346     | 35  |    | XA304  | 06        |     |        |        | TINF10 | 02       | TS21NA | 01     | 1                | TQ2   | C4                  | 17B                |                          |        |             |
| 16251  |        | XA346     | 36  |    | XA345  | 45        |     |        |        | TS182A | 01       | TS1800 | 01     | 2                | TQ2   | C2                  | 17A                |                          |        |             |
| 15827  |        | XA346     | 37  |    | XA348  | 36        |     |        |        | TS02BQ | 06       | TS21NA | 01     | 2                | TQ2   | C4                  | 18B                |                          |        |             |
| 16225  |        | XA346     | 38  |    |        |           |     |        |        | TS1700 | 02       | TS1700 | 00     | 1                | TQ2   | C1                  | 18A                | SEL S17                  |        |             |
| 16276  |        | XA346     | 39  |    |        |           |     |        |        | TS21NA | 02       | TS21NA | 00     | 1                | TQ2   | C4                  | 19B                | S02. CR'D INF.           |        |             |
| 16221  |        | XA346     | 40  |    | XA341  | 80        |     |        |        | TS17MA | 01       | TS1700 | 01     | 1                | TQ2   | C1                  | 19A                |                          |        |             |
| 13471  |        | XA346     | 41  |    |        |           |     |        |        | TITRC0 | 02       | TS261A | 01     | 1                | TQ2   | D3                  | 22B                |                          |        |             |
| 16228  |        | XA346     | 42  |    |        |           |     |        |        | TS171A | 03       | TS1700 | 01     | 2                | TQ2   | C1                  | 20A                |                          |        |             |
| 16410  |        | XA346     | 43  |    |        |           |     |        |        | TS25BQ | 06       | TS261A | 01     | 2                | TQ2   | D3                  | 23B                |                          |        |             |
| 02599  |        | XA346     | 44  |    |        |           |     |        |        | GND    | 01       |        |        |                  |       |                     | 21B                |                          |        |             |
| 16430  |        | XA346     | 45  |    | XA350  | 18        |     |        |        | TS261A | 06       | TS261A | 00     | 1                | TQ2   | D3                  | 24B                | S25.ITR(IND+A000         |        |             |
| 16342  |        | XA346     | 46  |    |        |           |     |        |        | TS2160 | 02       | TS2160 | 00     | 1                | TQ2   | D2                  | 21A                | STATE 0 + 21             |        |             |
| 08417  |        | XA346     | 47  |    | XA150  | 59        |     |        |        | TAVEBP | 05       | TS5AVA | 01     | 1                | TQ2   | D4                  | 25B                |                          |        |             |
| 16212  |        | XA346     | 48  |    | XA344  | 50        |     |        |        | TS17BP | 03       | TS2160 | 01     | 1                | TQ2   | D2                  | 22A                |                          |        |             |
| 15896  |        | XA346     | 49  |    | XA339  | 61        |     |        |        | TS05BQ | 03       | TS5AVA | 01     | 2                | TQ2   | D4                  | 26B                |                          |        |             |
| 15720  |        | XA346     | 50  |    | XA341  | 46        |     |        |        | TS00AA | 03       | TS2160 | 01     | 2                | TQ2   | D2                  | 23A                |                          |        |             |
| 16512  |        | XA346     | 51  |    | XA250  | 06        |     |        |        | TS5AVA | 01       | TS5AVA | 00     | 1                | TQ2   | D4                  | 27B                | S05.NOT ACCESS V         |        |             |
| 16277  |        | XA346     | 52  |    | XA330  | 43        |     |        |        | TS2N1A | 01       | TS2N1A | 00     | 1                | TQ2   | D1                  | 24A                |                          |        |             |
| 15890  |        | XA346     | 53  |    | XA145  | 37        |     |        |        | TS05BP | 03       | TDACA0 | 01     | 1                | TQ2   | E3                  | 28B                |                          |        |             |
| 15826  |        | XA346     | 54  |    | XA346  | 37        |     |        |        | TS02BQ | 05       | TS2N1A | 01     | 1                | TQ2   | D1                  | 25A                |                          |        |             |
| 16086  |        | XA346     | 55  |    | XA347  | 35        |     |        |        | TS13BP | 02       | TDACA0 | 01     | 2                | TQ2   | E3                  | 29B                |                          | E05    |             |
| 13366  |        | XA346     | 56  |    |        |           |     |        |        | TINF1A | 02       | TS2N1A | 01     | 2                | TQ2   | D1                  | 26A                |                          |        |             |
| 10562  |        | XA346     | 57  |    | XA332  | 71        |     |        |        | TDACA0 | 02       | TDACA0 | 00     | 1                | TQ2   | E3                  | 30B                | STATE S5+S13 PAR         |        |             |
| 02600  |        | XA346     | 58  |    |        |           |     |        |        | GND    | 01       |        |        |                  |       |                     | 27A                |                          |        |             |
| CONNECTOR XA346 CONTINUED ON THE NEXT PAGE ****. |        |           |     |    |        |           |     |        |        |        |          |        |        |                  |       |                     |                    |                          |        |             |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA346  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 251

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | LINE | PREFIX | CONNECTOR | PIN | LINE | MULT. GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 05791         |        | XA346     | 59                              |      | XA347  | 63        |     |      | 168         | 9    |       |       | SPI031  | 12     |          | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 15886         |        | XA346     | 60                              |      | XA341  | 64        |     |      | 168         | 9    |       |       | TS042A  | 01     | TS042A   | 03   | 1      | TQ2              | E2    |                     | 28A                | S04 NO XFER        |        |
| 05759         |        | XA346     | 61                              |      | XA342  | 52        |     |      | 168         | 9    |       |       | SPI030  | 17     |          | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 16503         |        | XA346     | 62                              |      |        |           |     |      |             |      |       |       | TS4XFA  | 02     | TS042A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 07925         |        | XA346     | 63                              |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 03   | 1      | TQ2              | E4    |                     | 33B                |                    |        |
| 15875         |        | XA346     | 64                              |      | XA343  | 75        |     |      | 168         | 9    |       |       | TS04BQ  | 03     | TS042A   | 01   | 2      | TQ2              | E2    |                     | 39A                |                    |        |
| 13482         |        | XA346     | 65                              |      | XA205  | 80        |     |      | 168         | 9    |       |       | TITR20  | 01     | TCCCAA   | 01   | 1      | TQ2              | F3    |                     | 34B                |                    |        |
| 11320         |        | XA346     | 66                              |      |        |           |     |      |             |      |       |       | TD005A  | 02     | TD005A   | 00   | 1      | TQ2              | E1    |                     | 31A                |                    |        |
| 02601         |        | XA346     | 67                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TQ2              |       |                     | 40A                |                    |        |
| 11321         |        | XA346     | 68                              |      | XA350  | 30        |     |      | 168         | 9    |       |       | TD0050  | 01     | TD005A   | 01   | 1      | TQ2              | E1    |                     | 32A                |                    |        |
| 09598         |        | XA346     | 69                              |      | XA349  | 24        |     |      | 168         | 9    |       |       | TCCCAA  | 03     | TCCCAA   | 00   | 1      | TQ2              | F3    |                     | 39A                | COMPUTER CONT TO   |        |
| 05793         |        | XA346     | 70                              |      | XA346  | 76        |     |      | 168         | 9    |       |       | SPI031  | 14     | TD005A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 13679         |        | XA346     | 71                              |      |        |           |     |      |             |      |       |       | TKAAAB  | 11     | TDC51A   | 01   | 1      | TQ2              | F2    |                     | 36A                |                    |        |
| 10660         |        | XA346     | 72                              |      |        |           |     |      |             |      |       |       | TDC51A  | 03     | TDC51A   | 00   | 1      | TQ2              | F2    |                     | 34A                | CLOCK INPUT TD24   |        |
| 10655         |        | XA346     | 73                              |      | XA440  | 03        |     |      | 168         | 9    |       |       | TDC420  | 01     | TDC51A   | 01   | 2      | TQ2              | F2    |                     | 36B                |                    |        |
| 16357         |        | XA346     | 74                              |      |        |           |     |      |             |      |       |       | TS22BQ  | 09     | TCCCAA   | 01   | 2      | TQ2              | F3    |                     | 39B                |                    |        |
| 16516         |        | XA346     | 75                              |      | XA330  | 04        |     |      | 168         | 9    |       |       | TS6BRA  | 01     | TS6BRA   | 00   | 1      | TQ2              | F1    |                     | 37B                | S06I BURST REQ     |        |
| 05794         |        | XA346     | 76                              |      | XA347  | 80        |     |      | 168         | 9    |       |       | SPI031  | 15     | KMR06A   | 01   | 1      | TQ2              | F4    |                     | 37A                |                    |        |
| 15919         |        | XA346     | 77                              |      | XA339  | 55        |     |      | 168         | 9    |       |       | TS06BQ  | 03     | TS6BRA   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 04161         |        | XA346     | 78                              |      |        |           |     |      |             |      |       |       | KMR060  | 02     | KMR06A   | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 09090         |        | XA346     | 79                              |      | XA146  | 46        |     |      | 168         | 9    |       |       | TBRRA0  | 03     | TS6BRA   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 04154         |        | XA346     | 80                              |      |        |           |     |      |             |      |       |       | KMR06A  | 02     | KMR06A   | 00   | 1      | TQ2              | F4    |                     | 39A                |                    |        |
| 13788         |        | XA347     | 01                              |      | XA338  | 01        |     |      | 168         | 9    |       |       | TKBABB  | 12     | TS10BN   | 01   | 1      | TDD              | BN    |                     | 02B                |                    |        |
| 02602         |        | XA347     | 02                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TDD              |       |                     | 01B                |                    |        |
| 05747         |        | XA347     | 03                              |      | XA347  | 17        |     |      | 168         | 9    |       |       | SPI030  | 05     | TS10BQ   | 01   | 1      | TDD              | BQ    |                     | 02A                |                    |        |
| 14239         |        | XA347     | 04                              |      | XA347  | 06        |     |      | 168         | 9    |       |       | TMRUBA4 | 17     | TS10BP   | 01   | 1      | TDD              | BP    |                     | 04A                |                    |        |
| 16028         |        | XA347     | 05                              |      | XA343  | 07        |     |      | 168         | 9    |       |       | TS1000  | 01     | TS10BI   | 01   | 1      | TDD              | BI    |                     | 03B                |                    |        |
| 14240         |        | XA347     | 06                              |      | XA347  | 20        |     |      | 168         | 9    |       |       | TMRUBA4 | 18     | TS09BP   | 01   | 1      | TDD              | AP    |                     | 05A                |                    |        |
| 16025         |        | XA347     | 07                              |      | XA134  | 18        |     |      | 168         | 9    |       |       | TS10BQ  | 03     | TS10BQ   | 00   | 1      | TDD              | BQ    |                     | 03A                | PRESET S10         |        |
| 16000         |        | XA347     | 08                              |      |        |           |     |      |             |      |       |       | TS0900  | 02     | TS09BI   | 01   | 1      | TDD              | AI    |                     | 06A                |                    |        |
| 16021         |        | XA347     | 09                              |      | XA334  | 78        |     |      | 168         | 9    |       |       | TS10BP  | 04     | TS10BP   | 00   | 1      | TDD              | BP    |                     | 04B                | MASTER RESET S10   |        |
| 13787         |        | XA347     | 10                              |      | XA347  | 01        |     |      | 168         | 9    |       |       | TKBABB  | 11     | TS09BN   | 01   | 1      | TDD              | AN    |                     | 07A                |                    |        |
| 15985         |        | XA347     | 11                              |      | XA351  | 45        |     |      | 168         | 9    |       |       | TS09BP  | 01     | TS09BP   | 00   | 1      | TDD              | AP    |                     | 05B                | MASTER RESET S09   |        |
| 00554         |        | XA347     | 12                              |      |        |           |     |      |             |      |       |       | +5V     | 01     |          |      |        | TDD              |       |                     |                    |                    |        |
| 15991         |        | XA347     | 13                              |      | XA345  | 05        |     |      | 168         | 9    |       |       | TS09BQ  | 05     | TS09BQ   | 00   | 1      | TDD              | AQ    |                     | 06B                | PRESET S09         |        |
| 13786         |        | XA347     | 14                              |      | XA347  | 10        |     |      | 168         | 9    |       |       | TKBABB  | 10     | TS12BN   | 01   | 1      | TDD              | DN    |                     | 09A                |                    |        |
| 05799         |        | XA347     | 15                              |      | XA348  | 05        |     |      | 168         | 9    |       |       | SPI031  | 20     | TS09BQ   | 01   | 1      | TDD              | AQ    |                     | 07B                |                    |        |
| 02603         |        | XA347     | 16                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TDD              |       |                     | 20B                |                    |        |
| 05748         |        | XA347     | 17                              |      | XA347  | 29        |     |      | 168         | 9    |       |       | SPI030  | 06     | TS12BQ   | 01   | 1      | TDD              | DQ    |                     | 08B                |                    |        |
| 16084         |        | XA347     | 18                              |      |        |           |     |      |             |      |       |       | TS1200  | 02     | TS12BI   | 01   | 1      | TDD              | DI    |                     | 10A                |                    |        |
| 16077         |        | XA347     | 19                              |      | XA348  | 13        |     |      | 168         | 9    |       |       | TS12BQ  | 05     | TS12BQ   | 00   | 1      | TDD              | DQ    |                     | 09B                | PRESET S12         |        |
| 14241         |        | XA347     | 20                              |      | XA347  | 22        |     |      | 168         | 9    |       |       | TMRUBA4 | 19     | TS12BP   | 01   | 1      | TDD              | DP    |                     | 11A                |                    |        |
| 16072         |        | XA347     | 21                              |      |        |           |     |      |             |      |       |       | TS12BP  | 04     | TS12BP   | 00   | 1      | TDD              | DP    |                     | 10B                | MASTER RESET S12   |        |
| 14242         |        | XA347     | 22                              |      | XA347  | 36        |     |      | 168         | 9    |       |       | TMRUBA4 | 20     | TS11BP   | 01   | 1      | TDD              | CP    |                     | 12A                |                    |        |
| 16042         |        | XA347     | 23                              |      |        |           |     |      |             |      |       |       | TS11BP  | 04     | TS11BP   | 00   | 1      | TDD              | CP    |                     | 11B                | MASTER RESET S11   |        |
| 16056         |        | XA347     | 24                              |      |        |           |     |      |             |      |       |       | TS1100  | 02     | TS11BI   | 01   | 1      | TDD              | CI    |                     | 13A                |                    |        |
| 16046         |        | XA347     | 25                              |      | XA350  | 31        |     |      | 168         | 9    |       |       | TS11BQ  | 04     | TS11BQ   | 00   | 1      | TDD              | CQ    |                     | 12B                | PRESET S11         |        |
| 13785         |        | XA347     | 26                              |      | XA347  | 14        |     |      | 168         | 9    |       |       | TKBABB  | 09     | TS11BN   | 01   | 1      | TDD              | CN    |                     | 14A                |                    |        |
| CONNECTOR     |        | XA347     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

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| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE    |         |         |   | MULTI GROUP | CODE | COLOR | IDENT   | SIGNAL | SEQ NO | EQUATION | TERMINATOR | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR  | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|---------|---------|---------|---|-------------|------|-------|---------|--------|--------|----------|------------|--------|------------------|-------|---------------------|---------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | WIRE NO | WIRE NO | WIRE NO |   |             |      |       |         |        |        |          |            |        |                  |       |                     |                     |                    |        |
| 05798         |        | XA347     | 27                              |        | XA347     | 15  |         |         | 16B     | 9 |             |      |       | SPI031  | 19     | TS11BQ | 01       | 1          | TDD    | CQ               |       | 13B                 |                     |                    |        |
| 00555         |        | XA347     | 28                              |        |           |     |         |         |         |   |             |      |       | +5V     | 01     |        |          |            | TDD    |                  |       |                     |                     |                    |        |
| 05749         |        | XA347     | 29                              |        | XA250     | 79  |         |         | 16B     | 9 |             |      |       | SPI030  | 07     | TS14BQ | 01       | 1          | TDD    | FQ               |       | 14B                 |                     |                    |        |
| 13784         |        | XA347     | 30                              |        | XA347     | 26  |         |         | 16B     | 9 |             |      |       | TKBABB  | 08     | TS14BN | 01       | 1          | TDD    | FN               |       | 15A                 |                     |                    |        |
| 16138         |        | XA347     | 31                              |        | XA345     | 72  |         |         | 16B     | 9 |             |      |       | TS14BQ  | 04     | TS14BQ | 00       | 1          | TDD    | FQ               |       | 15B                 | PRESET S14          |                    |        |
| 02604         |        | XA347     | 32                              |        |           |     |         |         |         |   |             |      |       | GND     | 01     |        |          |            | TDD    |                  |       | 21B                 |                     |                    |        |
| 16131         |        | XA347     | 33                              |        | XA346     | 24  |         |         | 16B     | 9 |             |      |       | TS14BP  | 02     | TS14BP | 00       | 1          | TDD    | FP               |       | 16B                 | MASTER RESET S14    |                    |        |
| 16153         |        | XA347     | 34                              |        | XA346     | 15  |         |         | 16B     | 9 |             |      |       | TS1400  | 01     | TS14BI | 00       | 1          | TDD    | FI               |       | 16A                 |                     |                    |        |
| 16088         |        | XA347     | 35                              |        | XA345     | 14  |         |         | 16B     | 9 |             |      |       | TS13BP  | 04     | TS13BP | 00       | 1          | TDD    | EP               |       | 17B                 | MASTER RESET S13    |                    |        |
| 14243         |        | XA347     | 36                              |        | XA347     | 38  |         |         | 16B     | 9 |             |      |       | TMRUBA4 | 21     | TS14BP | 01       | 1          | TDD    | FP               |       | 17A                 |                     |                    |        |
| 16098         |        | XA347     | 37                              |        | XA350     | 48  |         |         | 16B     | 9 |             |      |       | TS13BQ  | 05     | TS13BQ | 00       | 1          | TDD    | EQ               |       | 18B                 | PRESET S13          | E05                |        |
| 14244         |        | XA347     | 38                              |        | XA347     | 50  |         |         | 16B     | 9 |             |      |       | TMRUBA4 | 22     | TS13BP | 01       | 1          | TDD    | EP               |       | 18A                 |                     |                    |        |
| 05797         |        | XA347     | 39                              |        | XA347     | 27  |         |         | 16B     | 9 |             |      |       | SPI031  | 18     | TS13BQ | 01       | 1          | TDD    | EQ               |       | 19B                 |                     |                    |        |
| 16120         |        | XA347     | 40                              |        |           |     |         |         |         |   |             |      |       | TS1300  | 02     | TS13BI | 01       | 1          | TDD    | EI               |       | 19A                 |                     |                    |        |
| 05755         |        | XA347     | 41                              |        | XA344     | 42  |         |         | 16B     | 9 |             |      |       | SPI030  | 13     | TS16BQ | 01       | 1          | TDD    | HQ               |       | 22B                 |                     |                    |        |
| 13783         |        | XA347     | 42                              |        | XA347     | 30  |         |         | 16B     | 9 |             |      |       | TKBABB  | 07     | TS13BN | 01       | 1          | TDD    | EN               |       | 20A                 |                     |                    |        |
| 16188         |        | XA347     | 43                              |        | XA325     | 42  |         |         | 16B     | 9 |             |      |       | TS16BQ  | 03     | TS16BQ | 00       | 1          | TDD    | HQ               |       | 23B                 | PRESET S16          |                    |        |
| 02605         |        | XA347     | 44                              |        |           |     |         |         |         |   |             |      |       | GND     | 01     |        |          |            | TDD    |                  |       | 27A                 |                     |                    |        |
| 16183         |        | XA347     | 45                              |        | XA250     | 46  |         |         | 16B     | 9 |             |      |       | TS16BP  | 04     | TS16BP | 00       | 1          | TDD    | HP               |       | 24B                 | MASTER RESET S16    |                    |        |
| 13782         |        | XA347     | 46                              |        | XA347     | 42  |         |         | 16B     | 9 |             |      |       | TKBABB  | 06     | TS16BN | 01       | 1          | TDD    | HN               |       | 21A                 |                     |                    |        |
| 16161         |        | XA347     | 47                              |        |           |     |         |         |         |   |             |      |       | TS15BP  | 05     | TS15BP | 00       | 1          | TDD    | GP               |       | 25B                 | MASTER RESET S15    |                    |        |
| 16203         |        | XA347     | 48                              |        |           |     |         |         |         |   |             |      |       | TS1600  | 02     | TS16BI | 01       | 1          | TDD    | HI               |       | 22A                 |                     |                    |        |
| 16165         |        | XA347     | 49                              |        | XA341     | 43  |         |         | 16B     | 9 |             |      |       | TS15BQ  | 04     | TS15BQ | 00       | 1          | TDD    | GQ               |       | 26B                 | PRESET S15          |                    |        |
| 14245         |        | XA347     | 50                              |        | XA347     | 52  |         |         | 16B     | 9 |             |      |       | TMRUBA4 | 23     | TS16BP | 01       | 1          | TDD    | HP               |       | 23A                 |                     |                    |        |
| 05796         |        | XA347     | 51                              |        | XA347     | 39  |         |         | 16B     | 9 |             |      |       | SPI031  | 17     | TS15BQ | 01       | 1          | TDD    | GQ               |       | 27B                 |                     |                    |        |
| 14246         |        | XA347     | 52                              |        | XA347     | 64  |         |         | 16B     | 9 |             |      |       | TMRUBA4 | 24     | TS15BP | 01       | 1          | TDD    | GP               |       | 24A                 |                     |                    |        |
| 05754         |        | XA347     | 53                              |        | XA347     | 41  |         |         | 16B     | 9 |             |      |       | SPI030  | 12     | TS18BQ | 01       | 1          | TDD    | KQ               |       | 28B                 |                     |                    |        |
| 16172         |        | XA347     | 54                              |        | XA343     | 27  |         |         | 16B     | 9 |             |      |       | TS1500  | 01     | TS15BI | 01       | 1          | TDD    | GI               |       | 25A                 |                     |                    |        |
| 16242         |        | XA347     | 55                              |        | XA345     | 48  |         |         | 16B     | 9 |             |      |       | TS18BQ  | 04     | TS18BQ | 00       | 1          | TDD    | KQ               |       | 29B                 | PRESET S18          |                    |        |
| 13781         |        | XA347     | 56                              |        | XA347     | 46  |         |         | 16B     | 9 |             |      |       | TKBABB  | 05     | TS15BN | 01       | 1          | TDD    | GN               |       | 26A                 |                     |                    |        |
| 16238         |        | XA347     | 57                              |        |           |     |         |         |         |   |             |      |       | TS18BP  | 06     | TS18BP | 00       | 1          | TDD    | KP               |       | 30B                 | MASTER RESET S18007 |                    |        |
| 02606         |        | XA347     | 58                              |        |           |     |         |         |         |   |             |      |       | GND     | 01     |        |          |            | TDD    |                  |       | 40A                 |                     |                    |        |
| 16211         |        | XA347     | 59                              |        | XA346     | 48  |         |         | 16B     | 9 |             |      |       | TS17BP  | 02     | TS17BP | 00       | 1          | TDD    | JP               |       | 31B                 | MASTER RESET S17    |                    |        |
| 13780         |        | XA347     | 60                              |        | XA347     | 56  |         |         | 16B     | 9 |             |      |       | TKBABB  | 04     | TS18BN | 01       | 1          | TDD    | KN               |       | 28A                 |                     |                    |        |
| 16218         |        | XA347     | 61                              |        | XA340     | 60  |         |         | 16B     | 9 |             |      |       | TS17BQ  | 02     | TS17BQ | 00       | 1          | TDD    | JQ               |       | 32B                 | PRESET S17          |                    |        |
| 16247         |        | XA347     | 62                              |        | XA346     | 30  |         |         | 16B     | 9 |             |      |       | TS1800  | 01     | TS18BI | 01       | 1          | TDD    | KI               |       | 29A                 |                     |                    |        |
| 05792         |        | XA347     | 63                              |        | XA346     | 70  |         |         | 16B     | 9 |             |      |       | SPI031  | 13     | TS17BQ | 01       | 1          | TDD    | JQ               |       | 33B                 |                     |                    |        |
| 14247         |        | XA347     | 64                              |        | XA347     | 66  |         |         | 16B     | 9 |             |      |       | TMRUBA4 | 25     | TS18BP | 01       | 1          | TDD    | KP               |       | 30A                 |                     |                    |        |
| 16302         |        | XA347     | 65                              |        | XA146     | 80  |         |         | 16B     | 9 |             |      |       | TS204A  | 01     | TS20BQ | 01       | 1          | TDD    | MQ               |       | 34B                 |                     |                    |        |
| 14248         |        | XA347     | 66                              |        | XA347     | 73  |         |         | 16B     | 9 |             |      |       | TMRUBA4 | 26     | TS17BP | 01       | 1          | TDD    | JP               |       | 31A                 |                     |                    |        |
| 02607         |        | XA347     | 67                              |        |           |     |         |         |         |   |             |      |       | GND     | 01     |        |          |            | TDD    |                  |       | 40B                 |                     |                    |        |
| 16224         |        | XA347     | 68                              |        | XA346     | 38  |         |         | 16B     | 9 |             |      |       | TS1700  | 01     | TS17BI | 01       | 1          | TDD    | JI               |       | 32A                 |                     |                    |        |
| 16285         |        | XA347     | 69                              |        |           |     |         |         |         |   |             |      |       | TS20BP  | 07     | TS20BP | 00       | 1          | TDD    | MP               |       | 35A                 | MASTER RESET S20    |                    |        |
| 13779         |        | XA347     | 70                              |        | XA347     | 60  |         |         | 16B     | 9 |             |      |       | TKBABB  | 03     | TS17BN | 01       | 1          | TDD    | JN               |       | 33A                 |                     |                    |        |
| 16291         |        | XA347     | 71                              |        | XA305     | 57  |         |         | 16B     | 9 |             |      |       | TS2000  | 01     | TS20BI | 01       | 1          | TDD    | MI               |       | 36A                 |                     |                    |        |
| 13778         |        | XA347     | 72                              |        | XA347     | 70  |         |         | 16B     | 9 |             |      |       | TKBABB  | 02     | TS20BN | 01       | 1          | TDD    | MN               |       | 34A                 |                     |                    |        |
| 14249         |        | XA347     | 73                              |        | XA347     | 75  |         |         | 16B     | 9 |             |      |       | TMRUBA4 | 27     | TS20BP | 01       | 1          | TDD    | MP               |       | 36B                 |                     |                    |        |
| 16287         |        | XA347     | 74                              |        | XA348     | 61  |         |         | 16B     | 9 |             |      |       | TS20BQ  | 02     | TS20BQ | 00       | 1          | TDD    | MQ               |       | 35B                 | PRESET S20          |                    |        |
| 14250         |        | XA347     | 75                              |        | XA339     | 73  |         |         | 16B     | 9 |             |      |       | TMRUBA4 | 28     | TS19BP | 01       | 1          | TDD    | LP               |       | 37B                 |                     |                    |        |
| 16256         |        | XA347     | 76                              |        |           |     |         |         |         |   |             |      |       | TS19BP  | 04     | TS19BP | 00       | 1          | TDD    | LP               |       | 37A                 | MASTER RESET S19    |                    |        |
| CONNECTOR     |        | XA347     | CONTINUED ON THE NEXT PAGE **** |        |           |     |         |         |         |   |             |      |       |         |        |        |          |            |        |                  |       |                     |                     |                    |        |



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 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 253

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP. POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|---------|--------|------------------|-------|----------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |         |        |                  |       |                      |                    |                    |        |
| 16265   |        | XA347     | 77  |        |           |     |             |      |       |       | TS1900 | 02     | TS198I   | 01      | 1      | TDD              | LI    |                      | 38B                |                    |        |
| 16258   |        | XA347     | 78  |        | XA348     | 55  |             | 16B  | 9     |       | TS198Q | 02     | TS198Q   | 00      | 1      | TDD              | LQ    |                      | 38A                | PRESET S19         |        |
| 13777   |        | XA347     | 79  |        | XA347     | 72  |             | 16B  | 9     |       | TKBABB | 01     | TS198N   | 01      | 1      | TDD              | LN    |                      | 39B                |                    |        |
| 05795   |        | XA347     | 80  |        | XA347     | 51  |             | 16B  | 9     |       | SPI031 | 16     | TS198Q   | 01      | 1      | TDD              | LQ    |                      | 39A                |                    |        |
| 20386   |        | XA348     | 01  |        |           |     |             |      |       |       | M      | SP0024 | 01       |         |        |                  |       |                      | 02B                |                    |        |
| 02608   |        | XA348     | 02  |        |           |     |             |      |       |       |        | GND    | 01       |         |        |                  |       |                      | 01A                |                    |        |
| 16677   |        | XA348     | 03  |        | XA245     | 42  |             | 16B  | 9     |       |        | TTSM10 | 08       | TS11SD  | 01     | 1                | TLD   | A3                   | 02A                |                    |        |
| 05746   |        | XA348     | 04  |        | XA347     | 03  |             | 16B  | 9     |       |        | SPI030 | 04       |         | 01     | 1                | TLD   | A2                   | 04A                |                    |        |
| 05800   |        | XA348     | 05  |        | XA351     | 01  |             | 16B  | 9     |       |        | SPI031 | 21       |         | 01     | 2                | TLD   | A2                   | 03B                |                    |        |
| 03533   |        | XA348     | 06  |        | XA337     | 72  |             | 16B  | 9     |       | P      | TS00SD | 03       | JDB00B4 | 02     | 1                | TLD   | A1                   | 05A                | STATE COUNTER TO   |        |
| 15752   |        | XA348     | 06  |        |           |     |             |      |       |       | J      | TS00SD | 01       | TS00SD  | 00     | 1                | TLD   | A1                   | 05A                | JDB00B4 BUSS       |        |
| 16045   |        | XA348     | 07  |        | XA347     | 25  |             | 16B  | 9     |       |        | TS11BQ | 03       | TS11SD  | 01     | 2                | TLD   | A3                   | 03A                |                    |        |
| 16668   |        | XA348     | 08  |        | XA245     | 31  |             | 16B  | 9     |       |        | TTSM00 | 08       | TS00SD  | 01     | 1                | TLD   | A1                   | 06A                |                    |        |
| 03597   |        | XA348     | 09  |        | XA301     | 23  |             | 16B  | 9     |       | P      | TS11SD | 01       | JDB11B4 | 02     | 1                | TLD   | A3                   | 04B                | STATE COUNTER TO   |        |
| 16054   |        | XA348     | 09  |        |           |     |             |      |       |       | J      | TS11SD | 01       | TS11SD  | 00     | 1                | TLD   | A3                   | 04B                | JDB11B4 BUSS       |        |
| 15749   |        | XA348     | 10  |        | XA144     | 37  |             | 16B  | 9     |       |        | TS00BQ | 06       | TS00SD  | 01     | 2                | TLD   | A1                   | 07A                |                    |        |
| 16676   |        | XA348     | 11  |        | XA348     | 03  |             | 16B  | 9     |       |        | TTSM10 | 07       | TS12SD  | 01     | 1                | TLD   | A4                   | 05B                |                    |        |
| 00556   |        | XA348     | 12  |        |           |     |             |      |       |       |        | +5V    | 01       |         |        |                  |       |                      |                    |                    |        |
| 16078   |        | XA348     | 13  |        | XA136     | 10  |             | 16B  | 9     |       |        | TS12BQ | 06       | TS12SD  | 01     | 2                | TLD   | A4                   | 06B                |                    |        |
| 03591   |        | XA348     | 14  |        | XA301     | 21  |             | 16B  | 9     |       | P      | TS10SD | 01       | JDB10B4 | 02     | 1                | TLD   | B2                   | 09A                | STATE COUNTER TO   |        |
| 16027   |        | XA348     | 14  |        |           |     |             |      |       |       | J      | TS10SD | 01       | TS10SD  | 00     | 1                | TLD   | B2                   | 09A                | JDB10B4 BUSS       |        |
| 03603   |        | XA348     | 15  |        | XA301     | 25  |             | 16B  | 9     |       | P      | TS12SD | 01       | JDB12B4 | 02     | 1                | TLD   | A4                   | 07B                | STATE COUNTER TO   |        |
| 16082   |        | XA348     | 15  |        |           |     |             |      |       |       | J      | TS12SD | 01       | TS12SD  | 00     | 1                | TLD   | A4                   | 07B                | JDB12B4 BUSS       |        |
| 02609   |        | XA348     | 16  |        |           |     |             |      |       |       |        | GND    | 01       |         |        |                  |       |                      | 01B                |                    |        |
| 16675   |        | XA348     | 17  |        | XA348     | 11  |             | 16B  | 9     |       |        | TTSM10 | 06       | TS13SD  | 01     | 1                | TLD   | B3                   | 08B                |                    |        |
| 16674   |        | XA348     | 18  |        | XA348     | 17  |             | 16B  | 9     |       |        | TTSM10 | 05       | TS10SD  | 01     | 1                | TLD   | B2                   | 10A                |                    |        |
| 16110   |        | XA348     | 19  |        |           |     |             |      |       |       |        | TS13C0 | 11       | TS13SD  | 01     | 2                | TLD   | B3                   | 09B                |                    |        |
| 16024   |        | XA348     | 20  |        | XA347     | 07  |             | 16B  | 9     |       |        | TS10BQ | 02       | TS10SD  | 01     | 2                | TLD   | B2                   | 11A                |                    |        |
| 03614   |        | XA348     | 21  |        |           |     |             |      |       |       | P      | TS13SD | 06       | JDB13B4 | 02     | 1                | TLD   | B3                   | 10B                | STATE COUNTER TO   |        |
| 16114   |        | XA348     | 21  |        |           |     |             |      |       |       | J      | TS13SD | 01       | TS13SD  | 00     | 1                | TLD   | B3                   | 10B                | JDB13B4 BUSS       |        |
| 03590   |        | XA348     | 22  |        |           |     |             |      |       |       | P      | TS09SD | 06       | JDB09B4 | 02     | 1                | TLD   | B1                   | 12A                | STATE COUNTER TO   |        |
| 15998   |        | XA348     | 22  |        |           |     |             |      |       |       | J      | TS09SD | 01       | TS09SD  | 00     | 1                | TLD   | B1                   | 12A                | JDB09B4 BUSS       |        |
| 16672   |        | XA348     | 23  |        | XA348     | 24  |             | 16B  | 9     |       |        | TTSM10 | 03       | TS14SD  | 01     | 1                | TLD   | B4                   | 11B                |                    |        |
| 16673   |        | XA348     | 24  |        | XA348     | 18  |             | 16B  | 9     |       |        | TTSM10 | 04       | TS09SD  | 01     | 1                | TLD   | B1                   | 13A                |                    |        |
| 16137   |        | XA348     | 25  |        | XA347     | 31  |             | 16B  | 9     |       |        | TS14BQ | 03       | TS14SD  | 01     | 2                | TLD   | B4                   | 12B                |                    |        |
| 15990   |        | XA348     | 26  |        | XA347     | 13  |             | 16B  | 9     |       |        | TS09BQ | 04       | TS09SD  | 01     | 2                | TLD   | B1                   | 14A                |                    |        |
| 03620   |        | XA348     | 27  |        |           |     |             |      |       |       | P      | TS14SD | 06       | JDB14B4 | 02     | 1                | TLD   | B4                   | 13B                | STATE COUNTER TO   |        |
| 16152   |        | XA348     | 27  |        |           |     |             |      |       |       | J      | TS14SD | 01       | TS14SD  | 00     | 1                | TLD   | B4                   | 13B                | JDB14B4 BUSS       |        |
| 00557   |        | XA348     | 28  |        |           |     |             |      |       |       |        | +5V    | 01       |         |        |                  |       |                      |                    |                    |        |
| 16164   |        | XA348     | 29  |        | XA347     | 49  |             | 16B  | 9     |       |        | TS15BQ | 03       | TS15SD  | 01     | 1                | TLD   | C3                   | 14B                |                    |        |
| 03546   |        | XA348     | 30  |        | XA337     | 29  |             | 16B  | 9     |       |        | TS02SD | 04       | JDB02B4 | 02     | 1                | TLD   | C2                   | 15A                | STATE COUNTER TO   |        |
| 15835   |        | XA348     | 30  |        |           |     |             |      |       |       | J      | TS02SD | 01       | TS02SD  | 00     | 1                | TLD   | C2                   | 15A                | JDB02B4 BUSS       |        |
| 16671   |        | XA348     | 31  |        | XA348     | 23  |             | 16B  | 9     |       |        | TTSM10 | 02       | TS15SD  | 01     | 2                | TLD   | C3                   | 15B                |                    |        |
| 02610   |        | XA348     | 32  |        |           |     |             |      |       |       |        | GND    | 01       |         |        |                  |       |                      | 21B                |                    |        |
| 03626   |        | XA348     | 33  |        |           |     |             |      |       |       | P      | TS15SD | 06       | JDB15B4 | 02     | 1                | TLD   | C3                   | 16B                | STATE COUNTER TO   |        |
| 16171   |        | XA348     | 33  |        |           |     |             |      |       |       | J      | TS15SD | 01       | TS15SD  | 00     | 1                | TLD   | C3                   | 16B                | JDB15B4 BUSS       |        |
| 16667   |        | XA348     | 34  |        | XA348     | 08  |             | 16B  | 9     |       |        | TTSM00 | 07       | TS02SD  | 01     | 1                | TLD   | C2                   | 16A                |                    |        |
| 16670   |        | XA348     | 35  |        | XA348     | 31  |             | 16B  | 9     |       |        | TTSM10 | 01       | TS16SD  | 01     | 1                | TLD   | C4                   | 17B                |                    |        |
| CONNECTOR XA348 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |         |        |                  |       |                      |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA348  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 254

| RECORD NUMBER | FROM   |           |     | TO     |           |     | MULTI GROUP | CODE | COLOR | IDENT | SHEET NO. | SIGNAL | SEQ NO. | EQUATION | TERM. | FACT. | CKT OP CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION   | ECO NO. |
|---------------|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|-----------|--------|---------|----------|-------|-------|------------------|-------|---------------------|--------------------|----------------------|---------|
|               | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN |             |      |       |       |           |        |         |          |       |       |                  |       |                     |                    |                      |         |
| 15828         |        | XA348     | 36  |        | XA150     | 06  |             | 16B  | 9     |       |           | TS02BQ | 07      | TS02SD   | 01    | 2     | TLD              | C2    |                     |                    |                      |         |
| 16197         |        | XA348     | 37  |        | XA342     | 78  |             | 16B  | 9     |       |           | TS16C0 | 03      | TS16SD   | 01    | 2     | TLD              | C4    |                     |                    |                      |         |
| 03541         |        | XA348     | 38  |        | XA301     | 03  |             | 16B  | 9     |       | P         | TS01SD | 05      | JDB01B4  | 02    | 1     | TLD              | C1    |                     | 18A                | STATE COUNTER TO     |         |
| 15799         |        | XA348     | 38  |        |           |     |             |      |       |       | J         | TS01SD | 01      | TS01SD   | 00    | 1     | TLD              | C1    |                     | 18A                | JDB01B4 BUSS         |         |
| 03632         |        | XA348     | 39  |        |           |     |             |      |       |       | P         | TS16SD | 06      | JDB16B4  | 02    | 1     | TLD              | C4    |                     | 19B                | STATE COUNTER TO     |         |
| 16201         |        | XA348     | 39  |        |           |     |             |      |       |       | J         | TS16SD | 01      | TS16SD   | 00    | 1     | TLD              | C4    |                     | 19B                | JDB16B4 BUSS         |         |
| 16666         |        | XA348     | 40  |        | XA348     | 34  |             | 16B  | 9     |       |           | TTSM00 | 06      | TS01SD   | 01    | 1     | TLD              | C1    |                     | 19A                |                      |         |
| 16690         |        | XA348     | 41  |        | XA245     | 46  |             | 16B  | 9     |       |           | TTSM30 | 04      | TS17SD   | 01    | 1     | TLD              | D3    |                     | 22B                |                      |         |
| 15786         |        | XA348     | 42  |        | XA342     | 38  |             | 16B  | 9     |       |           | TS01BQ | 02      | TS01SD   | 01    | 2     | TLD              | C1    |                     | 20A                |                      |         |
| 16217         |        | XA348     | 43  |        | XA347     | 61  |             | 16B  | 9     |       |           | TS17BQ | 01      | TS17SD   | 01    | 2     | TLD              | D3    |                     | 23B                |                      |         |
| 02611         |        | XA348     | 44  |        |           |     |             |      |       |       |           | GND    | 06      |          |       | 1     | TLD              |       |                     | 27A                |                      |         |
| 03638         |        | XA348     | 45  |        |           |     |             |      |       |       | P         | TS17SD | 01      | JDB17B4  | 02    | 1     | TLD              | D3    |                     | 24B                | TS17 TO MEM BUSS     |         |
| 16223         |        | XA348     | 45  |        |           |     |             |      |       |       | J         | TS17SD | 01      | TS17SD   | 00    | 1     | TLD              | D3    |                     | 24B                | JDB17B4 BUSS         |         |
| 03556         |        | XA348     | 46  |        | XA337     | 63  |             | 16B  | 9     |       | P         | TS04SD | 08      | JDB04B4  | 02    | 1     | TLD              | D2    |                     | 21A                | STATE COUNTER TO C07 |         |
| 15883         |        | XA348     | 46  |        |           |     |             |      |       |       | J         | TS04SD | 01      | TS04SD   | 00    | 1     | TLD              | D2    |                     | 21A                | JDB04B4 BUSS         |         |
| 16689         |        | XA348     | 47  |        | XA348     | 41  |             | 16B  | 9     |       |           | TTSM30 | 03      | TS18SD   | 01    | 1     | TLD              | D4    |                     | 25B                |                      |         |
| 16665         |        | XA348     | 48  |        | XA348     | 40  |             | 16B  | 9     |       |           | TTSM00 | 05      | TS04SD   | 01    | 1     | TLD              | D2    |                     | 22A                |                      |         |
| 16241         |        | XA348     | 49  |        | XA347     | 55  |             | 16B  | 9     |       |           | TS18BQ | 03      | TS18SD   | 01    | 2     | TLD              | D4    |                     | 26B                |                      |         |
| 15873         |        | XA348     | 50  |        | XA349     | 73  |             | 16B  | 9     |       |           | TS04BQ | 01      | TS04SD   | 01    | 2     | TLD              | D2    |                     | 23A                |                      |         |
| 03644         |        | XA348     | 51  |        |           |     |             |      |       |       | P         | TS18SD | 06      | JDB18B4  | 02    | 1     | TLD              | D4    |                     | 27B                | TS18 TO MEM BUSS     |         |
| 16246         |        | XA348     | 51  |        |           |     |             |      |       |       | J         | TS18SD | 01      | TS18SD   | 00    | 1     | TLD              | D4    |                     | 27B                | JDB18B4 BUSS         |         |
| 03551         |        | XA348     | 52  |        | XA337     | 36  |             | 16B  | 9     |       | P         | TS03SD | 09      | JDB03B4  | 02    | 1     | TLD              | D1    |                     | 24A                | STATE COUNTER TO C07 |         |
| 15857         |        | XA348     | 52  |        |           |     |             |      |       |       | J         | TS03SD | 01      | TS03SD   | 00    | 1     | TLD              | D1    |                     | 24A                | JDB03B4 BUSS         |         |
| 16663         |        | XA348     | 53  |        | XA348     | 56  |             | 16B  | 9     |       |           | TTSM30 | 03      | TS19SD   | 01    | 1     | TLD              | E3    |                     | 28B                |                      |         |
| 15853         |        | XA348     | 54  |        | XA342     | 66  |             | 16B  | 9     |       |           | TS03C0 | 03      | TS03SD   | 01    | 1     | TLD              | D1    |                     | 25A                |                      |         |
| 16259         |        | XA348     | 55  |        | XA346     | 29  |             | 16B  | 9     |       |           | TS19BQ | 03      | TS19SD   | 01    | 2     | TLD              | E3    |                     | 29B                |                      |         |
| 16664         |        | XA348     | 56  |        | XA348     | 48  |             | 16B  | 9     |       |           | TTSM00 | 04      | TS03SD   | 01    | 2     | TLD              | D1    |                     | 26A                |                      |         |
| 03650         |        | XA348     | 57  |        |           |     |             |      |       |       | P         | TS19SD | 06      | JDB19B4  | 02    | 1     | TLD              | E3    |                     | 30B                | TS19 TO MEM BUSS     |         |
| 16263         |        | XA348     | 57  |        |           |     |             |      |       |       | J         | TS19SD | 01      | TS19SD   | 00    | 1     | TLD              | E3    |                     | 30B                | JDB19B4 BUSS         |         |
| 02612         |        | XA348     | 58  |        |           |     |             |      |       |       |           | GND    | 01      |          |       |       | TLD              |       |                     | 40A                |                      |         |
| 16684         |        | XA348     | 59  |        | XA348     | 65  |             | 16B  | 9     |       |           | TTSM20 | 06      | TS20SD   | 01    | 1     | TLD              | E4    |                     | 31B                |                      |         |
| 03567         |        | XA348     | 60  |        | XA337     | 61  |             | 16B  | 9     |       | P         | TS06SD | 01      | JDB06B4  | 02    | 1     | TLD              | E2    |                     | 28A                | STATE COUNTER TO     |         |
| 15926         |        | XA348     | 60  |        |           |     |             |      |       |       | J         | TS06SD | 01      | TS06SD   | 00    | 1     | TLD              | E2    |                     | 28A                | JDB06B4 BUSS         |         |
| 16288         |        | XA348     | 61  |        | XA343     | 57  |             | 16B  | 9     |       |           | TS20BQ | 03      | TS20SD   | 01    | 2     | TLD              | E4    |                     | 32B                |                      |         |
| 16688         |        | XA348     | 62  |        | XA348     | 47  |             | 16B  | 9     |       |           | TTSM30 | 02      | TS06SD   | 01    | 1     | TLD              | E2    |                     | 29A                |                      |         |
| 03656         |        | XA348     | 63  |        |           |     |             |      |       |       | P         | TS20SD | 06      | JDB20B4  | 02    | 1     | TLD              | E4    |                     | 33B                | TS20 TO CPU BUSS     |         |
| 16290         |        | XA348     | 63  |        |           |     |             |      |       |       | J         | TS20SD | 01      | TS20SD   | 00    | 1     | TLD              | E4    |                     | 33B                | JDB20B4 BUSS         |         |
| 15923         |        | XA348     | 64  |        | XA345     | 60  |             | 16B  | 9     |       |           | TS06C0 | 01      | TS06SD   | 01    | 2     | TLD              | E2    |                     | 30A                |                      |         |
| 16685         |        | XA348     | 65  |        | XA348     | 76  |             | 16B  | 9     |       |           | TTSM20 | 07      | TS21SD   | 01    | 1     | TLD              | F3    |                     | 34B                |                      |         |
| 03566         |        | XA348     | 66  |        |           |     |             |      |       |       | P         | TS05SD | 06      | JDB05B4  | 02    | 1     | TLD              | E1    |                     | 31A                | STATE COUNTER TO     |         |
| 15904         |        | XA348     | 66  |        |           |     |             |      |       |       | J         | TS05SD | 01      | TS05SD   | 00    | 1     | TLD              | E1    |                     | 31A                | JDB05B4 BUSS         |         |
| 02613         |        | XA348     | 67  |        |           |     |             |      |       |       |           | GND    | 01      |          |       |       | TLD              |       |                     |                    |                      |         |
| 15895         |        | XA348     | 68  |        | XA346     | 49  |             | 16B  | 9     |       |           | TS05BQ | 02      | TS05SD   | 01    | 1     | TLD              | E1    |                     | 32A                |                      |         |
| 03662         |        | XA348     | 69  |        |           |     |             |      |       |       | P         | TS21SD | 06      | JDB21B4  | 02    | 1     | TLD              | F3    |                     | 35A                | TS21 TO CPU          |         |
| 16323         |        | XA348     | 69  |        |           |     |             |      |       |       | J         | TS21SD | 01      | TS21SD   | 00    | 1     | TLD              | F3    |                     | 35A                | JDB21B4 BUSS         |         |
| 16687         |        | XA348     | 70  |        | XA348     | 62  |             | 16B  | 9     |       |           | TTSM30 | 01      | TS05SD   | 01    | 2     | TLD              | E1    |                     | 33A                |                      |         |
| 16662         |        | XA348     | 71  |        | XA348     | 53  |             | 16B  | 9     |       |           | TTSM00 | 02      | TS08SD   | 01    | 1     | TLD              | F2    |                     | 36A                |                      |         |
| 03584         |        | XA348     | 72  |        |           |     |             |      |       |       | P         | TS08SD | 06      | JDB08B4  | 02    | 1     | TLD              | F2    |                     | 34A                | STATE COUNTER TO     |         |
| 15982         |        | XA348     | 72  |        |           |     |             |      |       |       | J         | TS08SD | 01      | TS08SD   | 00    | 1     | TLD              | F2    |                     | 34A                | JDB08B4 BUSS         |         |
| 15979         |        | XA348     | 73  |        | XA339     | 74  |             | 16B  | 9     |       |           | TS08BQ | 04      | TS08SD   | 01    | 2     | TLD              | F2    |                     | 36B                |                      |         |

CONNECTOR (XA348) CONTINUED ON THE NEXT PAGE \*\*\*\*\*

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA348  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 255

| RECORD NUMBER | FROM   |           |                                 |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM    | FACTOR | SKT OR CHIP TYPE | DIM | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECC NO               |                |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|---------|--------|------------------|-----|---------------------|--------------------|--------------------|----------------------|----------------|
|               | PREFIX | CONNECTOR | PIN                             | SH TO | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |         |        |                  |     |                     |                    |                    |                      | SPEC INST MISC |
| 1631c         |        | XA348     | 74                              |       |        |           |     |       |             |      |       |       |        | TS21BQ | 05       | TS21SD  | 01     | 2                | TLD | F3                  |                    | 35B                | STATE COUNTER TO C10 | C10            |
| 03575         |        | XA348     | 75                              |       | XA337  | 62        |     |       |             | 16B  | 9     |       | P      | TS07SD | 09       | JDB07B4 | 02     | 1                | TLD | F1                  |                    | 37B                |                      |                |
| 15948         |        | XA348     | 75                              |       |        |           |     |       |             |      |       |       | J      | TS07SD | 01       | TS07SD  | 00     | 1                | TLD | F1                  |                    | 37B                | JDB07B4 BUSS         |                |
| 16686         |        | XA348     | 76                              |       |        |           |     |       |             |      |       |       |        | TSM20  | 08       | TS22SD  | 01     | 1                | TLD | F4                  |                    | 37A                |                      |                |
| 15945         |        | XA348     | 77                              |       | XA342  | 57        |     |       |             | 16B  | 9     |       |        | TS07C0 | 01       | TS07SD  | 01     | 1                | TLD | F1                  |                    | 38B                |                      |                |
| 16356         |        | XA348     | 78                              |       | XA346  | 74        |     |       |             | 16B  | 9     |       |        | TS22BQ | 08       | TS22SD  | 01     | 2                | TLD | F4                  |                    | 38A                |                      |                |
| 16661         |        | XA348     | 79                              |       | XA348  | 71        |     |       |             | 16B  | 9     |       |        | TSM00  | 01       | TS07SD  | 01     | 2                | TLD | F1                  |                    | 39B                | TS22 TO CPU          |                |
| 03668         |        | XA348     | 80                              |       |        |           |     |       |             |      |       |       | P      | TS22SD | 06       | JDB22B4 | 02     | 1                | TLD | F4                  |                    | 39A                |                      |                |
| 16360         |        | XA348     | 80                              |       |        |           |     |       |             |      |       |       | J      | TS22SD | 01       | TS22SD  | 03     | 1                | TLD | F4                  |                    | 39A                | JDB22B4 BUSS         |                |
| 14515         |        | XA349     | 01                              |       | XA351  | 08        |     |       |             | 16B  | 9     |       |        | TM03C0 | 03       | TS213A  | 01     | 1                | TD4 | A2                  |                    | 02B                |                      |                |
| 02614         |        | XA349     | 02                              |       |        |           |     |       |             |      |       |       |        | GND    | 01       |         |        |                  | TD4 |                     |                    | 01A                |                      |                |
| 01350         |        | XA349     | 03                              |       |        |           |     |       |             |      |       |       |        | DNW    | 01       |         |        |                  | TD4 |                     |                    |                    |                      |                |
| 16533         |        | XA349     | 04                              |       |        |           |     |       |             |      |       |       |        | TS8160 | 02       | TS213A  | 01     | 2                | TD4 | A2                  |                    | 04A                |                      |                |
| 14329         |        | XA349     | 05                              |       | XA349  | 60        |     |       |             | 16B  | 9     |       |        | TMS3BP | 05       | TS213A  | 01     | 3                | TD4 | A2                  |                    | 03B                |                      |                |
| 09178         |        | XA349     | 06                              |       |        |           |     |       |             |      |       |       |        | TBST1Q | 06       | TS131A  | 01     | 1                | TD4 | A1                  |                    | 05A                |                      |                |
| 14674         |        | XA349     | 07                              |       | XA349  | 55        |     |       |             | 16B  | 9     |       |        | TPEM10 | 06       | TS213A  | 01     | 4                | TD4 | A2                  |                    | 03A                |                      |                |
| 10971         |        | XA349     | 08                              |       | XA142  | 80        |     |       |             | 16B  | 9     |       |        | TDL14A | 01       | TS131A  | 01     | 2                | TD4 | A1                  |                    | 06A                | (S8+S16+S18) PE      |                |
| 16335         |        | XA349     | 09                              |       | XA351  | 54        |     |       |             | 16B  | 9     |       |        | TS213A | 02       | TS213A  | 00     | 1                | TD4 | A2                  |                    | 04B                |                      |                |
| 10970         |        | XA349     | 10                              |       |        |           |     |       |             |      |       |       |        | TDL13A | 02       | TS131A  | 01     | 3                | TD4 | A1                  |                    | 07A                | S03.BOOTSTRAP 1      |                |
| 16121         |        | XA349     | 11                              |       | XA345  | 52        |     |       |             | 16B  | 9     |       |        | TS131A | 01       | TS131A  | 00     | 1                | TD4 | A1                  |                    | 05B                |                      |                |
| 00558         |        | XA349     | 12                              |       |        |           |     |       |             |      |       |       |        | +5V    | 01       |         |        |                  | TD4 |                     |                    |                    |                      |                |
| 15850         |        | XA349     | 13                              |       |        |           |     |       |             |      |       |       |        | TS03BQ | 04       | TS131A  | 01     | 4                | TD4 | A1                  |                    | 06B                |                      |                |
| 11888         |        | XA349     | 14                              |       | XA325  | 40        |     |       |             | 16B  | 9     |       |        | TD17BP | 01       | TS092A  | 01     | 1                | TD4 | B2                  |                    | 09A                |                      |                |
| 01351         |        | XA349     | 15                              |       |        |           |     |       |             |      |       |       |        | DNW    | 01       |         |        |                  | TD4 |                     |                    |                    |                      |                |
| 02615         |        | XA349     | 16                              |       |        |           |     |       |             |      |       |       |        | GND    | 01       |         |        |                  | TD4 |                     |                    | 20B                |                      |                |
| 01352         |        | XA349     | 17                              |       |        |           |     |       |             |      |       |       |        | DNW    | 01       |         |        |                  | TD4 |                     |                    |                    |                      |                |
| 09014         |        | XA349     | 18                              |       | XA350  | 62        |     |       |             | 16B  | 9     |       |        | TBLZA0 | 07       | TS092A  | 01     | 2                | TD4 | B2                  |                    | 10A                |                      |                |
| 09695         |        | XA349     | 19                              |       | XA248  | 50        |     |       |             | 16B  | 9     |       |        | TCD170 | 07       | TS092A  | 01     | 3                | TD4 | B2                  |                    | 09B                |                      |                |
| 16187         |        | XA349     | 20                              |       | XA347  | 43        |     |       |             | 16B  | 9     |       |        | TS16BQ | 02       | TS092A  | 01     | 4                | TD4 | B2                  |                    | 11A                | S03+S04.C#0.10       |                |
| 16004         |        | XA349     | 21                              |       | XA247  | 70        |     |       |             | 16B  | 9     |       |        | TS092A | 02       | TS092A  | 00     | 1                | TD4 | B2                  |                    | 10B                |                      |                |
| 09713         |        | XA349     | 22                              |       |        |           |     |       |             |      |       |       |        | TC031A | 04       | TS2500  | 01     | 1                | TD4 | B1                  |                    | 12A                | SEL S25              |                |
| 16413         |        | XA349     | 23                              |       |        |           |     |       |             |      |       |       |        | TS2500 | 02       | TS2500  | 00     | 1                | TD4 | B1                  |                    | 11B                |                      |                |
| 09599         |        | XA349     | 24                              |       |        |           |     |       |             |      |       |       |        | TCCCA4 | 04       | TS2500  | 01     | 2                | TD4 | B1                  |                    | 13A                | C13                  |                |
| 16392         |        | XA349     | 25                              |       | XA350  | 26        |     |       |             | 16B  | 9     |       |        | TS24BP | 02       | TS2500  | 01     | 3                | TD4 | B1                  |                    | 12B                |                      |                |
| 16415         |        | XA349     | 26                              |       |        |           |     |       |             |      |       |       |        | TS251A | 02       | TS2500  | 01     | 4                | TD4 | B1                  |                    | 14A                |                      |                |
| 01353         |        | XA349     | 27                              |       |        |           |     |       |             |      |       |       |        | DNW    | 01       |         |        |                  | TD4 |                     |                    |                    |                      |                |
| 00559         |        | XA349     | 28                              |       |        |           |     |       |             |      |       |       |        | +5V    | 01       |         |        |                  | TD4 |                     |                    |                    |                      |                |
| 01354         |        | XA349     | 29                              |       |        |           |     |       |             |      |       |       |        | DNW    | 01       |         |        |                  | TD4 |                     |                    |                    |                      |                |
| 14441         |        | XA349     | 30                              |       | XA443  | 55        |     |       |             | 16B  | 9     |       |        | TM00BQ | 05       | TS7BSA  | 01     | 1                | TD4 | C2                  |                    | 15A                |                      |                |
| 09013         |        | XA349     | 31                              |       | XA349  | 18        |     |       |             | 16B  | 9     |       |        | TBLZA0 | 06       | TS7BSA  | 01     | 2                | TD4 | C2                  |                    | 15B                |                      |                |
| 02616         |        | XA349     | 32                              |       |        |           |     |       |             |      |       |       |        | GND    | 01       |         |        |                  | TD4 |                     |                    | 21B                | S7.BOOTSTRAP.MO.     |                |
| 16519         |        | XA349     | 33                              |       | XA305  | 06        |     |       |             | 16B  | 9     |       |        | TS7BSA | 02       | TS7BSA  | 09     | 1                | TD4 | C2                  |                    | 16B                |                      |                |
| 09204         |        | XA349     | 34                              |       | XA349  | 79        |     |       |             | 16B  | 9     |       |        | TBST2P | 06       | TS7BSA  | 01     | 3                | TD4 | C2                  |                    | 16A                | S4 +S6 + S13 + S     |                |
| 16509         |        | XA349     | 35                              |       |        |           |     |       |             |      |       |       |        | TS4610 | 02       | TS4610  | 00     | 1                | TD4 | C1                  |                    | 17B                |                      |                |
| 15941         |        | XA349     | 36                              |       | XA343  | 72        |     |       |             | 16B  | 9     |       |        | TS07BQ | 05       | TS7BSA  | 01     | 4                | TD4 | C2                  |                    | 17A                |                      | E05            |
| 16087         |        | XA349     | 37                              |       |        |           |     |       |             | 16B  | 9     |       |        | TS463A | 02       | TS4610  | 01     | 1                | TD4 | C1                  |                    | 18B                |                      |                |
| 15915         |        | XA349     | 38                              |       | XA250  | 60        |     |       |             | 16B  | 9     |       |        | TS36BP | 05       | TS4610  | 01     | 2                | TD4 | C1                  |                    | 18A                |                      |                |
| 01355         |        | XA349     | 39                              |       |        |           |     |       |             |      |       |       |        | DNW    | 01       |         |        |                  | TD4 |                     |                    |                    |                      |                |
| CONNECTOR     |        | XA349     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |       |       |        |        |          |         |        |                  |     |                     |                    |                    |                      |                |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA349  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 256

| RECORD NUMBER | FROM   |           |                                 |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTS | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | TCO NO |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|----|-------------|------|-------|-------|--------|--------|----------|------|-------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | IN | PREFIX | CONNECTOR | PIN | IN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |       |                  |       |                     |                    |                    |        |
| 14558         |        | XA349     | 40                              |    |        |           |     |    |             |      |       |       | TM05BP | 06     | TS4610   | 01   | 3     | TD4              | C1    |                     | 19A                |                    |        |
| 01356         |        | XA349     | 41                              |    | XA305  | 78        |     |    | 16B         | 9    |       |       | DNW    | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 16255         |        | XA349     | 42                              |    | XA347  | 76        |     |    | 16B         | 9    |       |       | TS19BP | 03     | TS4610   | 01   | 4     | TD4              | C1    |                     | 20A                |                    |        |
| 05638         |        | XA349     | 43                              |    | XA547  | 74        |     |    | 16B         | 9    |       |       | SPI026 | 30     |          | 01   | 1     | TD4              | D2    |                     | 23B                |                    |        |
| 02617         |        | XA349     | 44                              |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |       | TD4              |       |                     | 27A                |                    |        |
| 07926         |        | XA349     | 45                              |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00   | 1     | TD4              | D2    |                     | 24B                |                    |        |
| 05753         |        | XA349     | 46                              |    | XA347  | 53        |     |    | 16B         | 9    |       |       | SPI030 | 11     |          | 01   | 2     | TD4              | D2    |                     | 21A                |                    |        |
| 16266         |        | XA349     | 47                              |    | XA343  | 47        |     |    | 16B         | 9    |       |       | TS191A | 01     | TS191A   | 00   | 1     | TD4              | D1    |                     | 25B                | INACTIVE MODE NC   |        |
| 05810         |        | XA349     | 48                              |    | XA344  | 36        |     |    | 16B         | 9    |       |       | SPI031 | 31     |          | 01   | 3     | TD4              | D2    |                     | 22A                |                    |        |
| 14616         |        | XA349     | 49                              |    | XA149  | 51        |     |    | 16B         | 9    |       |       | TM5BR0 | 03     | TS191A   | 01   | 1     | TD4              | D1    |                     | 26B                |                    |        |
| 05681         |        | XA349     | 50                              |    | XA344  | 46        |     |    | 16B         | 9    |       |       | SPI028 | 06     |          | 01   | 4     | TD4              | D2    |                     | 23A                |                    |        |
| 01357         |        | XA349     | 51                              |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 15882         |        | XA349     | 52                              |    |        |           |     |    |             |      |       |       | TS04C0 | 03     | TS191A   | 01   | 2     | TD4              | D1    |                     | 24A                |                    |        |
| 01358         |        | XA349     | 53                              |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 14112         |        | XA349     | 54                              |    | XA350  | 41        |     |    | 16B         | 9    |       |       | TM07A0 | 01     | TS191A   | 01   | 3     | TD4              | D1    |                     | 25A                |                    |        |
| 14675         |        | XA349     | 55                              |    |        |           |     |    |             |      |       |       | TPEM10 | 07     | TS202A   | 01   | 1     | TD4              | E2    |                     | 29B                |                    |        |
| 13357         |        | XA349     | 56                              |    | XA351  | 66        |     |    | 16B         | 9    |       |       | TINDCA | 09     | TS191A   | 01   | 4     | TD4              | D1    |                     | 26A                |                    |        |
| 16296         |        | XA349     | 57                              |    | XA343  | 68        |     |    | 16B         | 9    |       |       | TS202A | 01     | TS202A   | 00   | 1     | TD4              | E2    |                     | 30B                | MEM PARITY ERROR   |        |
| 02618         |        | XA349     | 58                              |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |       | TD4              |       |                     | 43A                |                    |        |
| 16295         |        | XA349     | 59                              |    |        |           |     |    |             |      |       |       | TS201A | 03     | TS201A   | 00   | 1     | TD4              | E1    |                     | 31B                | (S2+S6+S13+S19)T   |        |
| 14330         |        | XA349     | 60                              |    | XA305  | 52        |     |    | 16B         | 9    |       |       | TMS3BP | 06     | TS202A   | 01   | 2     | TD4              | E2    |                     | 28A                |                    |        |
| 16433         |        | XA349     | 61                              |    |        |           |     |    |             |      |       |       | TS2610 | 02     | TS201A   | 01   | 1     | TD4              | E1    |                     | 32B                | D03                |        |
| 14522         |        | XA349     | 62                              |    | XA343  | 61        |     |    | 16B         | 9    |       |       | TM03C0 | 06     | TS202A   | 01   | 3     | TD4              | E2    |                     | 29A                |                    |        |
| 01359         |        | XA349     | 63                              |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 16511         |        | XA349     | 64                              |    |        |           |     |    |             |      |       |       | TS4620 | 02     | TS202A   | 01   | 4     | TD4              | E2    |                     | 30A                |                    |        |
| 01360         |        | XA349     | 65                              |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 09096         |        | XA349     | 66                              |    | XA238  | 75        |     |    | 16B         | 9    |       |       | TBRFP  | 01     | TS201A   | 01   | 2     | TD4              | E1    |                     | 31A                |                    |        |
| 02619         |        | XA349     | 67                              |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |       | TD4              |       |                     | 40B                |                    |        |
| 13356         |        | XA349     | 68                              |    | XA349  | 56        |     |    | 16B         | 9    |       |       | TINDCA | 08     | TS201A   | 01   | 3     | TD4              | E1    |                     | 32A                |                    |        |
| 16496         |        | XA349     | 69                              |    |        |           |     |    |             |      |       |       | TS4M5A | 02     | TS4M5A   | 00   | 1     | TD4              | F2    |                     | 35A                | S04-IND*.ACTIVE(   |        |
| 13459         |        | XA349     | 70                              |    | XA319  | 71        |     |    | 16B         | 9    |       |       | TITMRQ | 04     | TS201A   | 01   | 4     | TD4              | E1    |                     | 33A                |                    |        |
| 14111         |        | XA349     | 71                              |    |        |           |     |    |             |      |       |       | TM07A0 | 04     | TS4M5A   | 01   | 1     | TD4              | F2    |                     | 36A                |                    |        |
| 13336         |        | XA349     | 72                              |    |        |           |     |    |             |      |       |       | TINDBP | 09     | TS4M5A   | 01   | 2     | TD4              | F2    |                     | 34A                |                    |        |
| 15874         |        | XA349     | 73                              |    | XA346  | 64        |     |    | 16B         | 9    |       |       | TS04BQ | 02     | TS4M5A   | 01   | 3     | TD4              | F2    |                     | 36B                |                    |        |
| 14615         |        | XA349     | 74                              |    | XA349  | 49        |     |    | 16B         | 9    |       |       | TM5BR0 | 02     | TS4M5A   | 01   | 4     | TD4              | F2    |                     | 35B                |                    |        |
| 09124         |        | XA349     | 75                              |    | XA148  | 59        |     |    | 16B         | 9    |       |       | TBRSTP | 05     | TS3M0A   | 01   | 1     | TD4              | F1    |                     | 37B                |                    |        |
| 16486         |        | XA349     | 76                              |    |        |           |     |    |             |      |       |       | TS3M0A | 04     | TS3M0A   | 00   | 1     | TD4              | F1    |                     | 37A                | S03,M00 AND NOT    |        |
| 15852         |        | XA349     | 77                              |    | XA348  | 54        |     |    | 16B         | 9    |       |       | TS03C0 | 02     | TS3M0A   | 01   | 2     | TD4              | F1    |                     | 38B                |                    |        |
| 14440         |        | XA349     | 78                              |    | XA349  | 30        |     |    | 16B         | 9    |       |       | TM00BQ | 04     | TS3M0A   | 01   | 3     | TD4              | F1    |                     | 38A                |                    |        |
| 09205         |        | XA349     | 79                              |    |        |           |     |    |             |      |       |       | TBST2P | 07     | TS3M0A   | 01   | 4     | TD4              | F1    |                     | 39B                |                    |        |
| 01361         |        | XA349     | 80                              |    |        |           |     |    |             |      |       |       | DNW    | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 15753         |        | XA350     | 01                              |    | XA341  | 77        |     |    | 16B         | 9    |       |       | TS001A | 01     | TS001A   | 00   | 1     | TQ2              | A2    |                     | 02B                | STATE S03 + S04    |        |
| 02620         |        | XA350     | 02                              |    |        |           |     |    |             |      |       |       | GND    | 01     |          |      |       | TQ2              |       |                     | 01A                |                    |        |
| 16355         |        | XA350     | 03                              |    | XA348  | 78        |     |    | 16B         | 9    |       |       | TS22BQ | 07     | TS22FA   | 01   | 1     | TQ2              | A3    |                     | 02A                |                    |        |
| 15758         |        | XA350     | 04                              |    |        |           |     |    |             |      |       |       | TS0010 | 04     | TS001A   | 01   | 1     | TQ2              | A2    |                     | 04A                |                    |        |
| 15719         |        | XA350     | 05                              |    | XA346  | 50        |     |    | 16B         | 9    |       |       | TS00AA | 02     | TS001A   | 01   | 2     | TQ2              | A2    |                     | 03B                |                    |        |
| 16361         |        | XA350     | 06                              |    | XA251  | 40        |     |    | 16B         | 9    |       |       | TS2200 | 01     | TS2200   | 00   | 1     | TQ2              | A1    |                     | 05A                | SEL S22            |        |
| 17031         |        | XA350     | 07                              |    | XA246  | 76        |     |    | 16B         | 9    |       |       | TOFRA0 | 03     | TS22FA   | 01   | 2     | TQ2              | A3    |                     | 03A                |                    |        |
| CONNECTOR     |        | XA350     | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |    |             |      |       |       |        |        |          |      |       |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA350  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 257

| RECORD NUMBER                                   | FROM   |           |     |   | TO     |           |     |   | WIRE  |             |      |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACT | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO            |       |
|---|--------|-----------|-----|---|--------|-----------|-----|---|-------|-------------|------|-------|--------|---------|----------|--------|------|------------------|-------|---------------------|--------------------|--------------------|-------------------|-------|
|   | PREFIX | CONNECTOR | PIN | 2 | PREFIX | CONNECTOR | PIN | 3 | SH FE | MULTI GROUP | CODE | COLOR |        |         |          |        |      |                  |       |                     |                    |                    |                   | IDENT |
| 09866   |        | XA350     | 08  |   |        | XA245     | 77  |   |       |             | 16B  | 9     |        | TCPD4A  | 01       | TS2200 | 01   | 1                | TQ2   | A1                  |                    | 06A                |                   |       |
| 16359   |        | XA350     | 09  |   |        |           |     |   |       |             |      |       |        | TS22FA  | 02       | TS22FA | 00   | 1                | TQ2   | A3                  |                    | 04B                | S2Z AND OFRO      |       |
| 16364   |        | XA350     | 10  |   |        |           |     |   |       |             |      |       |        | TS223A  | 02       | TS2200 | 01   | 2                | TQ2   | A1                  |                    | 07A                |                   |       |
| 16370   |        | XA350     | 11  |   |        | XA251     | 33  |   |       |             | 16B  | 9     |        | TS23BP  | 03       | TS2300 | 01   | 1                | TQ2   | A4                  |                    | 05B                |                   |       |
| 00560   |        | XA350     | 12  |   |        |           |     |   |       |             |      |       |        | +5V     | 01       |        |      |                  | TQ2   |                     |                    |                    |                   |       |
| 16386   |        | XA350     | 13  |   |        |           |     |   |       |             |      |       |        | TS231A  | 05       | TS2300 | 01   | 2                | TQ2   | A4                  |                    | 06B                |                   |       |
| 16424   |        | XA350     | 14  |   |        |           |     |   |       |             |      |       |        | TS2600  | 02       | TS2600 | 00   | 1                | TQ2   | B2                  |                    | 09A                | SEL S26           |       |
| 16380   |        | XA350     | 15  |   |        | XA251     | 34  |   |       |             | 16B  | 9     |        | TS2300  | 01       | TS2300 | 00   | 1                | TQ2   | A4                  |                    | 07B                | SEL S23           |       |
| 02621   |        | XA350     | 16  |   |        |           |     |   |       |             |      |       |        | GND     | 01       |        |      |                  | TQ2   |                     |                    | 01B                |                   |       |
| 14521   |        | XA350     | 17  |   |        | XA349     | 62  |   |       |             | 16B  | 9     |        | TM03C0  | 05       | TS9M3A | 01   | 1                | TQ2   | B3                  |                    | 08B                |                   |       |
| 16431   |        | XA350     | 18  |   |        |           |     |   |       |             |      |       |        | TS261A  | 07       | TS2600 | 01   | 1                | TQ2   | B2                  |                    | 10A                |                   |       |
| 15989   |        | XA350     | 19  |   |        | XA348     | 26  |   |       |             | 16B  | 9     |        | TS09BQ  | 03       | TS9M3A | 01   | 2                | TQ2   | B3                  |                    | 09B                |                   |       |
| 16436   |        | XA350     | 20  |   |        |           |     |   |       |             |      |       |        | TS262A  | 03       | TS2600 | 01   | 2                | TQ2   | B2                  |                    | 11A                |                   |       |
| 16538   |        | XA350     | 21  |   |        |           |     |   |       |             |      |       |        | TS9M3A  | 02       | TS9M3A | 00   | 1                | TQ2   | B3                  |                    | 10B                | S9 AND M3         |       |
| 16389   |        | XA350     | 22  |   |        | XA245     | 73  |   |       |             | 16B  | 9     |        | TS2330  | 01       | TS2330 | 00   | 1                | TQ2   | B1                  |                    | 12A                | RESET S23         |       |
| 15114   |        | XA350     | 23  |   |        | XA245     | 64  |   |       |             | 16B  | 9     |        | TQSCA0  | 06       | TQSC2A | 01   | 1                | TQ2   | B4                  |                    | 11B                |                   |       |
| 14253   |        | XA350     | 24  |   |        | XA318     | 63  |   |       |             | 16B  | 9     |        | TMRUBA4 | 31       | TS2330 | 01   | 1                | TQ2   | B1                  |                    | 13A                |                   |       |
| 14461   |        | XA350     | 25  |   |        | XA246     | 70  |   |       |             | 16B  | 9     |        | TM01BQ  | 03       | TQSC2A | 01   | 2                | TQ2   | B4                  |                    | 12B                |                   |       |
| 16393   |        | XA350     | 26  |   |        | XA251     | 47  |   |       |             | 16B  | 9     |        | TS24BP  | 03       | TS2330 | 01   | 2                | TQ2   | B1                  |                    | 14A                |                   |       |
| 15129   |        | XA350     | 27  |   |        |           |     |   |       |             |      |       |        | TQSC2A  | 06       | TQSC2A | 00   | 1                | TQ2   | B4                  |                    | 13B                | Q REG SEL CONTROL |       |
| 00561   |        | XA350     | 28  |   |        |           |     |   |       |             |      |       |        | +5V     | 01       |        |      |                  | TQ2   |                     |                    |                    |                   |       |
| 14460   |        | XA350     | 29  |   |        | XA350     | 25  |   |       |             | 16B  | 9     |        | TM01BQ  | 02       | TPSCAA | 01   | 1                | TQ2   | C3                  |                    | 14B                |                   |       |
| 11322   |        | XA350     | 30  |   |        | XA328     | 29  |   |       |             | 16B  | 9     |        | TD0050  | 02       | TD0050 | 00   | 1                | TQ2   | C2                  |                    | 15A                | MEMORY MODE INPUT |       |
| 16047   |        | XA350     | 31  |   |        | XA325     | 43  |   |       |             | 16B  | 9     |        | TS11BQ  | 05       | TPSCAA | 01   | 2                | TQ2   | C3                  |                    | 15B                |                   |       |
| 02622   |        | XA350     | 32  |   |        |           |     |   |       |             |      |       |        | GND     | 01       |        |      |                  | TQ2   |                     |                    | 20B                |                   |       |
| 14870   |        | XA350     | 33  |   |        | XA135     | 62  |   |       |             | 16B  | 9     |        | TPSCAA  | 01       | TPSCAA | 00   | 1                | TQ2   | C3                  |                    | 16B                | PAR REG SELECT C  |       |
| 16116   |        | XA350     | 34  |   |        | XA150     | 69  |   |       |             | 16B  | 9     |        | TS13WA  | 02       | TD0050 | 01   | 1                | TQ2   | C2                  |                    | 16A                |                   |       |
| 10694   |        | XA350     | 35  |   |        |           |     |   |       |             |      |       |        | TDEBS0  | 03       | TLUCAA | 01   | 1                | TQ2   | C4                  |                    | 17B                |                   |       |
| 15620   |        | XA350     | 36  |   |        | XA115     | 57  |   |       |             | 16B  | 9     |        | TSB17A  | 01       | TD0050 | 01   | 2                | TQ2   | C2                  |                    | 17A                |                   |       |
| 16401   |        | XA350     | 37  |   |        | XA350     | 56  |   |       |             | 16B  | 9     |        | TS24BQ  | 05       | TLUCAA | 01   | 2                | TQ2   | C4                  |                    | 18B                |                   |       |
| 08398   |        | XA350     | 38  |   |        | XA326     | 24  |   |       |             | 16B  | 9     |        | TADA2A  | 01       | TADA2A | 00   | 1                | TQ2   | C1                  |                    | 18A                | S22.(ITR1+ITR2)   |       |
| 14017   |        | XA350     | 39  |   |        | XA146     | 62  |   |       |             | 16B  | 9     |        | TLUCAA  | 02       | TLUCAA | 00   | 1                | TQ2   | C4                  |                    | 19B                | DEC + BOOTSTRAP   |       |
| 13747   |        | XA350     | 40  |   |        | XA150     | 66  |   |       |             | 16B  | 9     |        | TKAMB0  | 01       | TADA2A | 01   | 1                | TQ2   | C1                  |                    | 19A                |                   |       |
| 14113   |        | XA350     | 41  |   |        | XA139     | 72  |   |       |             | 16B  | 9     |        | TMDZA0  | 02       | TBLTAA | 01   | 1                | TQ2   | D3                  |                    | 22B                |                   |       |
| 14582   |        | XA350     | 42  |   |        |           |     |   |       |             |      |       |        | TM2M6A  | 04       | TADA2A | 01   | 2                | TQ2   | C1                  |                    | 20A                |                   |       |
| 13908   |        | XA350     | 43  |   |        | XA219     | 76  |   |       |             | 16B  | 9     |        | TKWXB0  | 04       | TBLTAA | 01   | 2                | TQ2   | D3                  |                    | 23B                |                   |       |
| 02623   |        | XA350     | 44  |   |        |           |     |   |       |             |      |       |        | GND     | 01       |        |      |                  | TQ2   |                     |                    | 21B                |                   |       |
| 08981   |        | XA350     | 45  |   |        |           |     |   |       |             |      |       |        | TBLTAA  | 05       | TBLTAA | 00   | 1                | TQ2   | D3                  |                    | 24B                | MODE = ZERO.XFER  |       |
| 14132   |        | XA350     | 46  |   |        | XA349     | 37  |   |       |             | 16B  | 9     |        | TS463A  | 01       | TS463A | 00   | 1                | TQ2   | D2                  |                    | 21A                |                   |       |
| 13907   |        | XA350     | 47  |   |        | XA350     | 43  |   |       |             | 16B  | 9     |        | TKWXB0  | 03       | TBLTAA | 01   | 1                | TQ2   | D4                  |                    | 25B                |                   |       |
| 15329   |        | XA350     | 48  |   |        | XA150     | 45  |   |       |             | 16B  | 9     |        | TS13BQ  | 05       | TS463A | 01   | 1                | TQ2   | D2                  |                    | 22A                |                   |       |
| 08908   |        | XA350     | 49  |   |        |           |     |   |       |             |      |       |        | TBLD1A  | 03       | TBLTAA | 01   | 2                | TQ2   | D4                  |                    | 26B                |                   |       |
| 16076   |        | XA350     | 50  |   |        | XA245     | 10  |   |       |             | 16B  | 9     |        | TM00C0  | 01       | TS463A | 01   | 2                | TQ2   | D2                  |                    | 23A                |                   |       |
| 08983   |        | XA350     | 51  |   |        |           |     |   |       |             |      |       |        | TBLT1A  | 02       | TBLTAA | 00   | 1                | TQ2   | D4                  |                    | 27B                | XFER CONT GRP 1   |       |
| 16915   |        | XA350     | 52  |   |        | XA138     | 77  |   |       |             | 16B  | 9     |        | TWTOFA  | 01       | TWTOFA | 00   | 1                | TQ2   | D1                  |                    | 24A                | WORD TRANSFER OF  |       |
| 13906   |        | XA350     | 53  |   |        | XA350     | 47  |   |       |             | 16B  | 9     |        | TKWXB0  | 02       | TBLT2A | 01   | 1                | TQ2   | E3                  |                    | 28B                |                   |       |
| 17030   |        | XA350     | 54  |   |        | XA350     | 07  |   |       |             | 16B  | 9     |        | TOFRA0  | 02       | TWTOFA | 01   | 1                | TQ2   | D1                  |                    | 25A                |                   |       |
| 08911   |        | XA350     | 55  |   |        | XA139     | 47  |   |       |             | 16B  | 9     |        | TBLD2A  | 01       | TBLT2A | 01   | 2                | TQ2   | E3                  |                    | 29B                |                   |       |
| 16402   |        | XA350     | 56  |   |        | XA351     | 78  |   |       |             | 16B  | 9     |        | TS24BQ  | 06       | TWTOFA | 01   | 2                | TQ2   | D1                  |                    | 26A                |                   |       |
| 08984   |        | XA350     | 57  |   |        | XA140     | 50  |   |       |             | 16B  | 9     |        | TBLT2A  | 01       | TBLT2A | 00   | 1                | TQ2   | E3                  |                    | 30B                | XFER CONT GRP 2   |       |
| CONNECTOR XA350 CONTINUED ON THE NEXT PAGE **** |        |           |     |   |        |           |     |   |       |             |      |       |        |         |          |        |      |                  |       |                     |                    |                    |                   |       |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA350  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 258

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GRP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |     |                     |                    |                    |        |
| 02624   |        | XA350     | 58  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TQ2              |     |                     | 27A                |                    |        |
| 13905   |        | XA350     | 59  |      | XA350  | 53        |     |      |             | 16B  | 9     |       | TKWXB0  | 01     | TBLT3A   | 01   | 1      | TQ2              | E4  |                     | 31B                |                    |        |
| 08976   |        | XA350     | 60  |      |        |           |     |      |             |      |       |       | TBLRCA  | 02     | TBLRCA   | 00   | 1      | TQ2              | E2  |                     | 28A                | (RTC=0.8L=0)-*     |        |
| 09040   |        | XA350     | 61  |      |        |           |     |      |             |      |       |       | TBLZ4A  | 04     | TBLT3A   | 01   | 2      | TQ2              | E4  |                     | 32B                |                    |        |
| 09015   |        | XA350     | 62  |      | XA345  | 74        |     |      |             | 16B  | 9     |       | TBLZA0  | 08     | TBLRCA   | 01   | 1      | TQ2              | E2  |                     | 29A                |                    |        |
| 08987   |        | XA350     | 63  |      |        |           |     |      |             |      |       |       | TBLT3A  | 02     | TBLT3A   | 00   | 1      | TQ2              | E4  |                     | 33B                | XFER CONT GRP 3    |        |
| 15434   |        | XA350     | 64  |      |        |           |     |      |             |      |       |       | TRTC00  | 02     | TBLRCA   | 01   | 2      | TQ2              | E2  |                     | 30A                |                    |        |
| 17029   |        | XA350     | 65  |      | XA350  | 54        |     |      |             | 16B  | 9     |       | TOFRA0  | 01     | TS28FA   | 01   | 1      | TQ2              | F3  |                     | 34B                |                    |        |
| 16491   |        | XA350     | 66  |      | XA341  | 62        |     |      |             | 16B  | 9     |       | YS3M3A  | 01     | YS3M3A   | 00   | 1      | TQ2              | E1  |                     | 31A                | S03( M3 + BURST    |        |
| 02625   |        | XA350     | 67  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TQ2              |     |                     | 40A                |                    |        |
| 15851   |        | XA350     | 68  |      | XA349  | 77        |     |      |             | 16B  | 9     |       | YS03C0  | 01     | YS3M3A   | 01   | 1      | TQ2              | E1  |                     | 32A                |                    |        |
| 16462   |        | XA350     | 69  |      | XA245  | 74        |     |      |             | 16B  | 9     |       | TS28FA  | 02     | TS28FA   | 00   | 1      | TQ2              | F3  |                     | 35A                | S28 AND OFRD       |        |
| 14586   |        | XA350     | 70  |      | XA150  | 07        |     |      |             | 16B  | 9     |       | YM3BB0  | 01     | YS3M3A   | 01   | 2      | TQ2              | E1  |                     | 33A                |                    |        |
| 16420   |        | XA350     | 71  |      | XA341  | 54        |     |      |             | 16B  | 9     |       | TS26BQ  | 03     | TS271A   | 01   | 1      | TQ2              | F2  |                     | 36A                |                    |        |
| 16444   |        | XA350     | 72  |      | XA245  | 69        |     |      |             | 16B  | 9     |       | YS271A  | 01     | YS271A   | 00   | 1      | TQ2              | F2  |                     | 34A                | S26 AND SPEC OFR   |        |
| 17048   |        | XA350     | 73  |      |        |           |     |      |             |      |       |       | TOFRD0  | 03     | TS271A   | 01   | 2      | TQ2              | F2  |                     | 36B                |                    |        |
| 16454   |        | XA350     | 74  |      | XA340  | 05        |     |      |             | 16B  | 9     |       | YS28BQ  | 02     | TS28FA   | 01   | 2      | TQ2              | F3  |                     | 35B                |                    |        |
| 16337   |        | XA350     | 75  |      | XA245  | 11        |     |      |             | 16B  | 9     |       | TS214A  | 01     | TS214A   | 00   | 1      | TQ2              | F1  |                     | 37B                | MEMORY T.O. NOT S  |        |
| 17052   |        | XA350     | 76  |      | XA230  | 69        |     |      |             | 16B  | 9     |       | TOFRD0  | 01     | TS29FA   | 01   | 1      | TQ2              | F4  |                     | 37A                |                    |        |
| 16305   |        | XA350     | 77  |      | XA344  | 14        |     |      |             | 16B  | 9     |       | TS218P  | 02     | TS214A   | 01   | 1      | TQ2              | F1  |                     | 38B                |                    |        |
| 16474   |        | XA350     | 78  |      |        |           |     |      |             |      |       |       | YS29BQ  | 03     | TS29FA   | 01   | 2      | TQ2              | F4  |                     | 38A                |                    |        |
| 14395   |        | XA350     | 79  |      |        |           |     |      |             |      |       |       | TMT0BQ  | 04     | TS214A   | 01   | 2      | TQ2              | F1  |                     | 39B                |                    |        |
| 16476   |        | XA350     | 80  |      |        |           |     |      |             |      |       |       | YS29FA  | 02     | TS29FA   | 00   | 1      | TQ2              | F4  |                     | 39A                | S29 AND OFRD       |        |
| 05801   |        | XA351     | 01  |      | XA351  | 13        |     |      |             | 16B  | 9     |       | SPI031  | 22     | TTDM00   | 01   | 1      | TT3              | A2  |                     | 02B                |                    |        |
| 02626   |        | XA351     | 02  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TT3              |     |                     | 01B                |                    |        |
| 03761   |        | XA351     | 03  |      | XA351  | 09        |     |      |             | 16B  | 9     |       | JITRSD4 | 02     | TTDM00   | 01   | 2      | TT3              | A2  |                     | 02A                |                    |        |
| 09678   |        | XA351     | 04  |      |        |           |     |      |             |      |       |       | TCD16A  | 04     | TCD16A   | 00   | 1      | TT3              | A1  |                     | 04A                | MEM PE# M3         |        |
| 13300   |        | XA351     | 05  |      |        |           |     |      |             |      |       |       | TICTDA  | 06     | TTDM00   | 01   | 3      | TT3              | A2  |                     | 03B                | TD TO CPU BUSS     |        |
| 14328   |        | XA351     | 06  |      | XA349  | 05        |     |      |             | 16B  | 9     |       | YMS3BP  | 04     | TCD16A   | 01   | 1      | TT3              | A1  |                     | 05A                |                    |        |
| 16548   |        | XA351     | 07  |      |        |           |     |      |             |      |       |       | TTDM00  | 08     | TTDM00   | 00   | 1      | TT3              | A2  |                     | 03A                | D REG TO CPU BUS   |        |
| 14520   |        | XA351     | 08  |      | XA350  | 17        |     |      |             | 16B  | 9     |       | TM03C0  | 04     | TCD16A   | 01   | 2      | TT3              | A1  |                     | 06A                |                    |        |
| 03762   |        | XA351     | 09  |      | XA351  | 14        |     |      |             | 16B  | 9     |       | JITRSD4 | 03     | TTDM10   | 01   | 1      | TT3              | A3  |                     | 04B                |                    |        |
| 14680   |        | XA351     | 10  |      | XA246  | 55        |     |      |             | 16B  | 9     |       | YPEM2A  | 05     | TCD16A   | 01   | 3      | TT3              | A1  |                     | 07A                |                    |        |
| 13299   |        | XA351     | 11  |      | XA351  | 05        |     |      |             | 16B  | 9     |       | TICTDA  | 05     | TTDM10   | 01   | 2      | TT3              | A3  |                     | 05B                | TD TO CPU BUSS     |        |
| 00562   |        | XA351     | 12  |      |        |           |     |      |             |      |       |       | +5V     | 01     |          |      |        | TT3              |     |                     |                    |                    |        |
| 05802   |        | XA351     | 13  |      | XA351  | 18        |     |      |             | 16B  | 9     |       | SPI031  | 23     | TTDM10   | 01   | 3      | TT3              | A3  |                     | 06B                |                    |        |
| 03763   |        | XA351     | 14  |      | XA351  | 24        |     |      |             | 16B  | 9     |       | JITRSD4 | 04     | TTDM30   | 01   | 1      | TT3              | B2  |                     | 09A                |                    |        |
| 16556   |        | XA351     | 15  |      |        |           |     |      |             |      |       |       | TTDM10  | 08     | TTDM10   | 00   | 1      | TT3              | A3  |                     | 07B                | D REG TO CPU BUS   |        |
| 02627   |        | XA351     | 16  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TT3              |     |                     | 21B                |                    |        |
| 13298   |        | XA351     | 17  |      | XA351  | 11        |     |      |             | 16B  | 9     |       | TICTDA  | 04     | TTDM30   | 01   | 2      | TT3              | B2  |                     | 08B                | TD TO CPU BUSS     |        |
| 05803   |        | XA351     | 18  |      | XA351  | 26        |     |      |             | 16B  | 9     |       | SPI031  | 24     | TTDM30   | 01   | 3      | TT3              | B2  |                     | 10A                |                    |        |
| 16565   |        | XA351     | 19  |      | XA126  | 70        |     |      |             | 16B  | 9     |       | TTDM30  | 01     | TTDM30   | 00   | 1      | TT3              | B2  |                     | 09B                | D REG TO CPU BUS   |        |
| 16564   |        | XA351     | 20  |      |        |           |     |      |             |      |       |       | TTDM20  | 08     | TTDM20   | 00   | 1      | TT3              | B1  |                     | 11A                | D REG TO CPU BUS   |        |
| 13297   |        | XA351     | 21  |      | XA351  | 17        |     |      |             | 16B  | 9     |       | TICTDA  | 03     | TTDM40   | 01   | 1      | TT3              | B3  |                     | 10B                | TD TO CPU BUSS     |        |
| 13296   |        | XA351     | 22  |      | XA351  | 21        |     |      |             | 16B  | 9     |       | TICTDA  | 02     | TTDM20   | 01   | 1      | TT3              | B1  |                     | 12A                | TD TO CPU BUSS     |        |
| 03765   |        | XA351     | 23  |      |        |           |     |      |             |      |       |       | JITRSD4 | 06     | TTDM40   | 01   | 2      | TT3              | B3  |                     | 11B                |                    |        |
| 03764   |        | XA351     | 24  |      | XA351  | 23        |     |      |             | 16B  | 9     |       | JITRSD4 | 05     | TTDM20   | 01   | 2      | TT3              | B1  |                     | 13A                |                    |        |
| 05805   |        | XA351     | 25  |      | XA351  | 33        |     |      |             | 16B  | 9     |       | SPI031  | 26     | TTDM40   | 01   | 3      | TT3              | B3  |                     | 12B                |                    |        |
| CONNECTOR (XA351) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |         |        |          |      |        |                  |     |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA351  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 259

| RECORD NUMBER | FROM      |           |                                 | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACT | CKT OR CHIP TYPE | GHOM | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---------------|-----------|-----------|---------------------------------|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|--------|------|------------------|------|---------------------|--------------------|--------------------|------------------|
|               | PREFIX    | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |        |          |        |      |                  |      |                     |                    |                    |                  |
| 05804         |           | XA351     | 26                              |        | XA351     | 25  |      |             | 168  | 9     |        | SPI031 | 25       | TTDM20 | 01   | 3                | TT3  | B1                  | 14A                |                    |                  |
| 16573         |           | XA351     | 27                              |        | XA126     | 79  |      |             | 168  | 9     |        | TTDM40 | 01       | TTDM40 | 00   | 1                | TT3  | B3                  | 13B                |                    | D REG TO CPU BUS |
| 00563         |           | XA351     | 28                              |        |           |     |      |             |      |       |        | +5V    | 01       |        |      |                  | TT3  |                     |                    |                    |                  |
| 05806         |           | XA351     | 29                              |        | XA231     | 13  |      |             | 168  | 9     |        | TDO3BP | 005      | TC0010 | 01   | 1                | TT3  | C2                  | 14B                |                    |                  |
| 05750         |           | XA351     | 30                              |        |           |     |      |             |      |       |        | TCST6A | 03       | TC0010 | 01   | 2                | TT3  | C2                  | 15A                |                    |                  |
| 07927         |           | XA351     | 31                              |        |           |     |      |             |      |       |        | TC0010 | 02       | TC0010 | 00   | 1                | TT3  | C2                  | 15B                |                    |                  |
| 02628         |           | XA351     | 32                              |        |           |     |      |             |      |       |        | GND    | 01       |        |      |                  | TT3  |                     | 27A                |                    |                  |
| 05807         |           | XA351     | 33                              |        | XA351     | 38  |      |             | 168  | 9     |        | SPI031 | 28       |        | 01   | 1                | TT3  | C3                  | 16B                |                    |                  |
| 05678         |           | XA351     | 34                              |        |           |     |      |             |      |       |        | TCST5A | 03       | TC0010 | 01   | 3                | TT3  | C2                  | 16A                |                    |                  |
| 05751         |           | XA351     | 35                              |        | XA351     | 48  |      |             | 168  | 9     |        | SPI030 | 09       |        | 01   | 2                | TT3  | C3                  | 17B                |                    |                  |
| 16922         |           | XA351     | 36                              |        |           |     |      |             |      |       |        | TXAUCA | 03       | TXAUCA | 00   | 1                | TT3  | C1                  | 17A                |                    | XFER AUCTION TO  |
| 05679         |           | XA351     | 37                              |        | XA351     | 41  |      |             | 168  | 9     |        | SPI028 | 04       |        | 01   | 3                | TT3  | C3                  | 18B                |                    |                  |
| 05808         |           | XA351     | 38                              |        | XA351     | 46  |      |             | 168  | 9     |        | SPI031 | 29       | TXAUCA | 01   | 1                | TT3  | C1                  | 18A                |                    |                  |
| 07928         |           | XA351     | 39                              |        |           |     |      |             |      |       |        | SPO    | 01       |        | 00   | 1                | TT3  | C3                  | 19B                |                    |                  |
| 15785         |           | XA351     | 40                              |        | XA348     | 42  |      |             | 168  | 9     |        | TS01BQ | 01       | TXAUCA | 01   | 2                | TT3  | C1                  | 19A                |                    |                  |
| 05680         |           | XA351     | 41                              |        | XA349     | 50  |      |             | 168  | 9     |        | SPI028 | 05       |        | 01   | 1                | TT3  | D2                  | 22B                |                    |                  |
| 09082         |           | XA351     | 42                              |        | XA146     | 39  |      |             | 168  | 9     |        | TBRCP0 | 01       | TXAUCA | 01   | 3                | TT3  | C1                  | 20A                |                    |                  |
| 07929         |           | XA351     | 43                              |        |           |     |      |             |      |       |        | SPO    | 01       |        | 00   | 1                | TT3  | D2                  | 23B                |                    |                  |
| 02629         |           | XA351     | 44                              |        |           |     |      |             |      |       |        | GND    | 01       |        |      |                  | TT3  |                     | 43A                |                    |                  |
| 15986         |           | XA351     | 45                              |        |           |     |      |             |      |       |        | TS09BP | 02       | TQRSA0 | 01   | 1                | TT3  | D3                  | 24B                |                    |                  |
| 05809         |           | XA351     | 46                              |        | XA349     | 48  |      |             | 168  | 9     |        | SPI031 | 30       |        | 01   | 2                | TT3  | D2                  | 21A                |                    |                  |
| 16182         |           | XA351     | 47                              |        | XA347     | 45  |      |             | 168  | 9     |        | TS16BP | 03       | TQRSA0 | 01   | 2                | TT3  | D3                  | 25B                |                    |                  |
| 05752         |           | XA351     | 48                              |        | XA349     | 46  |      |             | 168  | 9     |        | SPI030 | 10       |        | 01   | 3                | TT3  | D2                  | 22A                |                    |                  |
| 16236         |           | XA351     | 49                              |        | XA351     | 77  |      |             | 168  | 9     |        | TS18BP | 04       | TQRSA0 | 01   | 3                | TT3  | D3                  | 26B                |                    |                  |
| 16328         |           | XA351     | 50                              |        |           |     |      |             |      |       |        | TS2100 | 03       | TS2100 | 00   | 1                | TT3  | D1                  | 23A                |                    | SEL S21          |
| 15113         |           | XA351     | 51                              |        | XA350     | 23  |      |             | 168  | 9     |        | TQRSA0 | 05       | TQRSA0 | 00   | 1                | TT3  | D3                  | 27B                |                    | S9+S16+S18-0     |
| 16332         |           | XA351     | 52                              |        | XA343     | 63  |      |             | 168  | 9     |        | TS212A | 01       | TS2100 | 01   | 1                | TT3  | D1                  | 24A                |                    |                  |
| 15834         |           | XA351     | 53                              |        |           |     |      |             |      |       |        | TS02C0 | 05       | TCD15A | 01   | 1                | TT3  | E2                  | 28B                |                    |                  |
| 16336         |           | XA351     | 54                              |        |           |     |      |             |      |       |        | TS213A | 03       | TS2100 | 01   | 2                | TT3  | D1                  | 25A                |                    |                  |
| 09673         |           | XA351     | 55                              |        | XA246     | 07  |      |             | 168  | 9     |        | TCD15A | 01       | TCD15A | 00   | 1                | TT3  | E2                  | 29B                |                    | S02.BCOTSTRAP 1. |
| 16330         |           | XA351     | 56                              |        | XA247     | 60  |      |             | 168  | 9     |        | TS211A | 02       | TS2100 | 01   | 3                | TT3  | D1                  | 26A                |                    |                  |
| 11864         |           | XA351     | 57                              |        |           |     |      |             |      |       |        | TRC170 | 02       | TMHS4A | 01   | 1                | TT3  | E3                  | 30B                |                    |                  |
| 02630         |           | XA351     | 58                              |        |           |     |      |             |      |       |        | GND    | 01       |        |      |                  | TT3  |                     | 40B                |                    |                  |
| 14679         |           | XA351     | 59                              |        | XA351     | 10  |      |             | 168  | 9     |        | TPEM2A | 04       | TMHS4A | 01   | 2                | TT3  | E3                  | 31B                |                    |                  |
| 08707         |           | XA351     | 60                              |        |           |     |      |             |      |       |        | TBB120 | 03       | TCD15A | 01   | 2                | TT3  | E2                  | 28A                |                    |                  |
| 15978         |           | XA351     | 61                              |        | XA348     | 73  |      |             | 168  | 9     |        | TS08BQ | 03       | TMHS4A | 01   | 3                | TT3  | E3                  | 32B                |                    |                  |
| 09187         |           | XA351     | 62                              |        |           |     |      |             |      |       |        | TBST10 | 09       | TCD15A | 01   | 3                | TT3  | E2                  | 29A                |                    |                  |
| 14136         |           | XA351     | 63                              |        | XA334     | 72  |      |             | 168  | 9     |        | TMHS4A | 01       | TMHS4A | 00   | 1                | TT3  | E3                  | 33B                |                    |                  |
| 16301         |           | XA351     | 64                              |        | XA433     | 24  |      |             | 168  | 9     |        | TS203A | 02       | TS203A | 00   | 1                | TT3  | E1                  | 30A                |                    |                  |
| 13420         |           | XA351     | 65                              |        |           |     |      |             |      |       |        | TIPEBQ | 07       | TS14EA | 01   | 1                | TT3  | F2                  | 34B                |                    |                  |
| 13358         |           | XA351     | 66                              |        |           |     |      |             |      |       |        | TINDCA | 10       | TS203A | 01   | 1                | TT3  | E1                  | 31A                |                    |                  |
| 02631         |           | XA351     | 67                              |        |           |     |      |             |      |       |        | GND    | 01       |        |      |                  | TT3  |                     |                    |                    |                  |
| 08753         |           | XA351     | 68                              |        | XA236     | 77  |      |             | 168  | 9     |        | TBC1BQ | 01       | TS203A | 01   | 2                | TT3  | E1                  | 32A                |                    |                  |
| 13270         |           | XA351     | 69                              |        | XA247     | 77  |      |             | 168  | 9     |        | TIAZA0 | 01       | TPS12A | 01   | 1                | TT3  | F3                  | 35A                |                    |                  |
| 15918         |           | XA351     | 70                              |        | XA346     | 77  |      |             | 168  | 9     |        | TS06BQ | 02       | TS203A | 01   | 3                | TT3  | E1                  | 33A                |                    |                  |
| 16140         |           | XA351     | 71                              |        |           |     |      |             |      |       |        | TS14BQ | 06       | TS14EA | 01   | 2                | TT3  | F2                  | 36A                |                    |                  |
| 14667         |           | XA351     | 72                              |        | XA323     | 79  |      |             | 168  | 9     |        | TPEM1A | 06       | TS14EA | 01   | 3                | TT3  | F2                  | 34A                |                    |                  |
| 16532         |           | XA351     | 73                              |        | XA349     | 04  |      |             | 168  | 9     |        | TS8160 | 01       | TS8160 | 00   | 1                | TT3  | F1                  | 36B                |                    |                  |
| 16147         |           | XA351     | 74                              |        | XA343     | 23  |      |             | 168  | 9     |        | TS14EA | 01       | TS14EA | 00   | 1                | TT3  | F2                  | 35B                |                    |                  |
| 15973         |           | XA351     | 75                              |        | XA250     | 43  |      |             | 168  | 9     |        | TS08BP | 02       | TS8160 | 01   | 1                | TT3  | F1                  | 37B                |                    |                  |
|               | CONNECTOR | XA351     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |             |      |       |        |        |          |        |      |                  |      |                     |                    |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA351  
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| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       | SPEC. INST. MISC. | SIGNAL | SEQ NO. | EQUATION | TERM. | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------------------|--------|---------|----------|-------|--------|------------------|-------|---------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN | BNFS | PREFIX | CONNECTOR | PIN | BNFS | MULTI GROUP | CODE | COLOR |                   |        |         |          |       |        |                  |       |                     |                    |                    |         |
| 10705   | XA351  | 76        |     |      |        |           |     |      |             |      |       | YDEOF0            | 02     | TPS12A  | 01       | 2     | TT3    | F3               |       |                     | 37A                |                    |         |
| 16237   | XA351  | 77        |     |      | XA347  | 57        |     |      |             | 16B  | 9     | TS188P            | 05     | TS8160  | 01       | 2     | TT3    | F1               |       |                     | 38B                |                    |         |
| 16403   | XA351  | 78        |     |      |        |           |     |      |             |      |       | TS248Q            | 07     | TPS12A  | 01       | 3     | TT3    | F3               |       |                     | 38A                |                    |         |
| 16181   | XA351  | 79        |     |      | XA351  | 47        |     |      |             | 16B  | 9     | TS168P            | 02     | TS8160  | 01       | 3     | TT3    | F1               |       |                     | 39B                |                    |         |
| 14889   | XA351  | 80        |     |      | XA137  | 61        |     |      |             | 16B  | 9     | TPS12A            | 02     | TPS12A  | 00       | 1     | TT3    | F3               |       |                     | 39A                | OFR + DEV +80JTST  |         |
| 17730   | XA401  | 01        |     |      |        |           |     |      |             |      |       | XAOPDB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17734   | XA401  | 02        |     |      | XA520  | 45        |     |      |             | 16B  | 9     | XAOPDB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21195   | XA401  | 02        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17743   | XA401  | 03        |     |      |        |           |     |      |             |      |       | XA00DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17747   | XA401  | 04        |     |      | XA520  | 05        |     |      |             | 16B  | 9     | XA00DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21196   | XA401  | 04        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17756   | XA401  | 05        |     |      |        |           |     |      |             |      |       | XA01DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17760   | XA401  | 06        |     |      | XA520  | 19        |     |      |             | 16B  | 9     | XA01DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21197   | XA401  | 06        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17769   | XA401  | 07        |     |      |        |           |     |      |             |      |       | XA02DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17773   | XA401  | 08        |     |      | XA520  | 16        |     |      |             | 16B  | 9     | XA02DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21198   | XA401  | 08        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17782   | XA401  | 09        |     |      |        |           |     |      |             |      |       | XA03DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17786   | XA401  | 10        |     |      | XA520  | 02        |     |      |             | 16B  | 9     | XA03DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17795   | XA401  | 11        |     |      |        |           |     |      |             |      |       | XA04DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17799   | XA401  | 12        |     |      | XA520  | 25        |     |      |             | 16B  | 9     | XA04DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21199   | XA401  | 12        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17808   | XA401  | 13        |     |      |        |           |     |      |             |      |       | XA05DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17812   | XA401  | 14        |     |      | XA520  | 39        |     |      |             | 16B  | 9     | XA05DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21200   | XA401  | 14        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17821   | XA401  | 15        |     |      |        |           |     |      |             |      |       | XA06DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17825   | XA401  | 16        |     |      | XA520  | 42        |     |      |             | 16B  | 9     | XA06DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21201   | XA401  | 16        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17834   | XA401  | 17        |     |      |        |           |     |      |             |      |       | XA07DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17838   | XA401  | 18        |     |      | XA520  | 21        |     |      |             | 16B  | 9     | XA07DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21202   | XA401  | 18        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17553   | XA401  | 19        |     |      |        |           |     |      |             |      |       | XAR0DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17557   | XA401  | 20        |     |      | XA520  | 53        |     |      |             | 16B  | 9     | XAR0DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21203   | XA401  | 20        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17574   | XA401  | 21        |     |      |        |           |     |      |             |      |       | XAR1DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17579   | XA401  | 22        |     |      | XA520  | 58        |     |      |             | 16B  | 9     | XAR1DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21204   | XA401  | 22        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17596   | XA401  | 23        |     |      |        |           |     |      |             |      |       | XAR2DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17601   | XA401  | 24        |     |      | XA520  | 44        |     |      |             | 16B  | 9     | XAR2DB4R          | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21205   | XA401  | 24        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17619   | XA401  | 25        |     |      |        |           |     |      |             |      |       | XAR3DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17624   | XA401  | 26        |     |      |        |           |     |      |             |      |       | XAR3DB4R          | 02     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21206   | XA401  | 26        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17641   | XA401  | 27        |     |      |        |           |     |      |             |      |       | XAR4DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17646   | XA401  | 28        |     |      |        |           |     |      |             |      |       | XAR4DB4R          | 02     |         |          |       |        |                  |       |                     |                    |                    |         |
| 21207   | XA401  | 28        |     |      |        |           |     |      |             |      |       | GND               | 01     |         |          |       |        |                  |       |                     |                    |                    |         |
| 17662   | XA401  | 29        |     |      |        |           |     |      |             |      |       | XAR5DB4           | 03     |         |          |       |        |                  |       |                     |                    |                    | A01     |
| 17668   | XA401  | 30        |     |      |        |           |     |      |             |      |       | XAR5DB4R          | 02     |         |          |       |        |                  |       |                     |                    |                    |         |
| CONNECTOR (XA401) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |                   |        |         |          |       |        |                  |       |                     |                    |                    |         |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA401  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 261

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO   | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|----------|----------|------|--------|------------------|-------|---------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |          |          |      |        |                  |       |               |                    |                    |        |
| 21208   |        | XA401     | 30  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 17685   |        | XA401     | 31  |        |           |     |      |             |      |       |        | XAR6DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 17690   |        | XA401     | 32  |        |           |     |      |             |      |       |        | XAR6DB4R | 02       |      |        |                  |       |               |                    |                    |        |
| 21209   |        | XA401     | 32  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 17705   |        | XA401     | 33  |        |           |     |      |             |      |       |        | XAR7DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 17709   |        | XA401     | 34  |        | XA522     | 67  |      |             | 16B  | 9     |        | XAR7DB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21210   |        | XA401     | 34  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 17471   |        | XA401     | 35  |        |           |     |      |             |      |       |        | XAENDB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 17475   |        | XA401     | 36  |        | XA522     | 59  |      |             | 16B  | 9     |        | XAENDB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21211   |        | XA401     | 36  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 17430   |        | XA401     | 37  |        |           |     |      |             |      |       |        | XACMDB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 17434   |        | XA401     | 38  |        | XA522     | 79  |      |             | 16B  | 9     |        | XACMDB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21212   |        | XA401     | 38  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 17500   |        | XA401     | 39  |        |           |     |      |             |      |       |        | XAINDB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 17505   |        | XA401     | 40  |        | XA522     | 77  |      |             | 16B  | 9     |        | XAINDB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21213   |        | XA401     | 40  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 18144   |        | XA401     | 41  |        |           |     |      |             |      |       |        | XB0PDB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 18148   |        | XA401     | 42  |        | XA526     | 45  |      |             | 16B  | 9     |        | XB0PDB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21214   |        | XA401     | 42  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 18157   |        | XA401     | 43  |        |           |     |      |             |      |       |        | XB00DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 18161   |        | XA401     | 44  |        | XA526     | 05  |      |             | 16B  | 9     |        | XB00DB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21215   |        | XA401     | 44  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 18170   |        | XA401     | 45  |        |           |     |      |             |      |       |        | XB01DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 18174   |        | XA401     | 46  |        | XA526     | 19  |      |             | 16B  | 9     |        | XB01DB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21216   |        | XA401     | 46  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 18183   |        | XA401     | 47  |        |           |     |      |             |      |       |        | XB02DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 18187   |        | XA401     | 48  |        | XA526     | 16  |      |             | 16B  | 9     |        | XB02DB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21217   |        | XA401     | 48  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 18196   |        | XA401     | 49  |        |           |     |      |             |      |       |        | XB03DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 18200   |        | XA401     | 50  |        | XA526     | 02  |      |             | 16B  | 9     |        | XB03DB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21218   |        | XA401     | 50  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 18209   |        | XA401     | 51  |        |           |     |      |             |      |       |        | XB04DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 18213   |        | XA401     | 52  |        | XA526     | 25  |      |             | 16B  | 9     |        | XB04DB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21219   |        | XA401     | 52  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 18222   |        | XA401     | 53  |        |           |     |      |             |      |       |        | XB05DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 18226   |        | XA401     | 54  |        | XA526     | 39  |      |             | 16B  | 9     |        | XB05DB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21220   |        | XA401     | 54  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 18235   |        | XA401     | 55  |        |           |     |      |             |      |       |        | XB06DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 18239   |        | XA401     | 56  |        | XA526     | 42  |      |             | 16B  | 9     |        | XB06DB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21221   |        | XA401     | 56  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 18248   |        | XA401     | 57  |        |           |     |      |             |      |       |        | XB07DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 18252   |        | XA401     | 58  |        | XA526     | 21  |      |             | 16B  | 9     |        | XB07DB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21222   |        | XA401     | 58  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 17966   |        | XA401     | 59  |        |           |     |      |             |      |       |        | XBRODB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 17971   |        | XA401     | 60  |        | XA526     | 53  |      |             | 16B  | 9     |        | XBRODB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21223   |        | XA401     | 60  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 17989   |        | XA401     | 61  |        |           |     |      |             |      |       |        | XBR1DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| 17993   |        | XA401     | 62  |        | XA526     | 58  |      |             | 16B  | 9     |        | XBR1DB4R | 01       |      |        |                  |       |               |                    |                    |        |
| 21224   |        | XA401     | 62  |        |           |     |      |             |      |       |        | GND      | 01       |      |        |                  |       |               |                    |                    |        |
| 18011   |        | XA401     | 63  |        |           |     |      |             |      |       |        | XBR2DB4  | 03       |      |        |                  |       |               |                    |                    | A01    |
| CONNECTOR XA401 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |          |          |      |        |                  |       |               |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA401  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 262

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SIZE | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |       |                     |                    |                    |        |
| 18015         | XA401  | 64        |                                 |      | XA526  | 44        |     |      |             | 16B  | 9     |       | XBR2DB4R | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21225         | XA401  | 64        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 18033         | XA401  | 65        |                                 |      |        |           |     |      |             |      |       |       | XBR3DB4  | 03     |          |      |        | EXT              |       |                     |                    | A01                |        |
| 18037         | XA401  | 66        |                                 |      | XA526  | 67        |     |      |             | 16B  | 9     |       | XBR3DB4R | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21226         | XA401  | 66        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 18055         | XA401  | 67        |                                 |      |        |           |     |      |             |      |       |       | XBR4DB4  | 03     |          |      |        | EXT              |       |                     |                    | A01                |        |
| 18059         | XA401  | 68        |                                 |      | XA526  | 77        |     |      |             | 16B  | 9     |       | XBR4DB4R | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21227         | XA401  | 68        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 18077         | XA401  | 69        |                                 |      |        |           |     |      |             |      |       |       | XBR5DB4  | 03     |          |      |        | EXT              |       |                     |                    | A01                |        |
| 18081         | XA401  | 70        |                                 |      | XA526  | 79        |     |      |             | 16B  | 9     |       | XBR5DB4R | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21228         | XA401  | 70        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 18099         | XA401  | 71        |                                 |      |        |           |     |      |             |      |       |       | XBR6DB4  | 03     |          |      |        | EXT              |       |                     |                    | A01                |        |
| 18103         | XA401  | 72        |                                 |      | XA526  | 59        |     |      |             | 16B  | 9     |       | XBR6DB4R | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21229         | XA401  | 72        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 18119         | XA401  | 73        |                                 |      |        |           |     |      |             |      |       |       | XBR7DB4  | 03     |          |      |        | EXT              |       |                     |                    | A01                |        |
| 18123         | XA401  | 74        |                                 |      | XA528  | 67        |     |      |             | 16B  | 9     |       | XBR7DB4R | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 17885         | XA401  | 75        |                                 |      |        |           |     |      |             |      |       |       | XBENDB4  | 03     |          |      |        | EXT              |       |                     |                    | A01                |        |
| 17889         | XA401  | 76        |                                 |      | XA528  | 59        |     |      |             | 16B  | 9     |       | XBENDB4R | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 17844         | XA401  | 77        |                                 |      |        |           |     |      |             |      |       |       | XBCMDB4  | 03     |          |      |        | EXT              |       |                     |                    | A01                |        |
| 17848         | XA401  | 78        |                                 |      | XA528  | 79        |     |      |             | 16B  | 9     |       | XBCMDB4R | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21230         | XA401  | 78        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 17915         | XA401  | 79        |                                 |      |        |           |     |      |             |      |       |       | XBINDB4  | 03     |          |      |        | EXT              |       |                     |                    | A01                |        |
| 17919         | XA401  | 80        |                                 |      | XA528  | 77        |     |      |             | 16B  | 9     |       | XBINDB4R | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21231         | XA401  | 80        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06693         | XA402  | 01        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02632         | XA402  | 02        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06694         | XA402  | 03        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02633         | XA402  | 04        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06695         | XA402  | 05        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02634         | XA402  | 06        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06696         | XA402  | 07        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02635         | XA402  | 08        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06697         | XA402  | 09        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02636         | XA402  | 10        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06698         | XA402  | 11        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02637         | XA402  | 12        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06699         | XA402  | 13        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02638         | XA402  | 14        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06700         | XA402  | 15        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02639         | XA402  | 16        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06701         | XA402  | 17        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02640         | XA402  | 18        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06702         | XA402  | 19        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02641         | XA402  | 20        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06703         | XA402  | 21        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02642         | XA402  | 22        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06704         | XA402  | 23        |                                 |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02643         | XA402  | 24        |                                 |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| CONNECTOR     |        | XA402     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |          |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA402  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 263

| RECORD NUMBER                                   | FROM   |           |     | SHEET | TO     |           |     | WIRE  |             |      |       | SIGNAL | SFD NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OF POWER PLANE | TEST POINTS | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|-------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |       | PREFIX | CONNECTOR | PIN | SHEET | MULTI-GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |             |                    |        |
| 06705   |        | XA402     | 25  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02644   |        | XA402     | 26  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06706   |        | XA402     | 27  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02645   |        | XA402     | 28  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06707   |        | XA402     | 29  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02646   |        | XA402     | 30  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06708   |        | XA402     | 31  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02647   |        | XA402     | 32  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06709   |        | XA402     | 33  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02648   |        | XA402     | 34  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06710   |        | XA402     | 35  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02649   |        | XA402     | 36  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06711   |        | XA402     | 37  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02650   |        | XA402     | 38  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06712   |        | XA402     | 39  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02651   |        | XA402     | 40  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06713   |        | XA402     | 41  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02652   |        | XA402     | 42  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06714   |        | XA402     | 43  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02653   |        | XA402     | 44  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06715   |        | XA402     | 45  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02654   |        | XA402     | 46  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06716   |        | XA402     | 47  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02655   |        | XA402     | 48  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06717   |        | XA402     | 49  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02656   |        | XA402     | 50  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06718   |        | XA402     | 51  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02657   |        | XA402     | 52  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06719   |        | XA402     | 53  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02658   |        | XA402     | 54  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06720   |        | XA402     | 55  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02659   |        | XA402     | 56  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06721   |        | XA402     | 57  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02660   |        | XA402     | 58  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06722   |        | XA402     | 59  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02661   |        | XA402     | 60  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06723   |        | XA402     | 61  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02662   |        | XA402     | 62  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06724   |        | XA402     | 63  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02663   |        | XA402     | 64  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06725   |        | XA402     | 65  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02664   |        | XA402     | 66  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06726   |        | XA402     | 67  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02665   |        | XA402     | 68  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06727   |        | XA402     | 69  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02666   |        | XA402     | 70  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06728   |        | XA402     | 71  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02667   |        | XA402     | 72  |       |        |           |     |       |             |      |       | GND    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 06729   |        | XA402     | 73  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| 02668   |        | XA402     | 74  |       |        |           |     |       |             |      |       | SPP    | 01     |          |      |        | EXT              |       |                     |             |                    |        |
| CONNECTOR XA402 CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |        |        |          |      |        |                  |       |                     |             |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA402  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 264

| RECORD NUMBER                                   | FROM   |           |     | SHP | TO     |           |     | WIRE |             |      |       | SFC INST. USE | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|-----|------|-------------|------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |     | PREFIX | CONNECTOR | PIN | SHP  | MULTI GROUP | CODE | COLOR |               |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 06730   |        | XA402     | 75  |     |        |           |     |      |             |      |       | SPP           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 02669   |        | XA402     | 76  |     |        |           |     |      |             |      |       | SPP           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 06731   |        | XA402     | 77  |     |        |           |     |      |             |      |       | SPP           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 02670   |        | XA402     | 78  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 06732   |        | XA402     | 79  |     |        |           |     |      |             |      |       | SPP           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 02671   |        | XA402     | 80  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 06733   |        | XA403     | 01  |     |        |           |     |      |             |      |       | SPP           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 02672   |        | XA403     | 02  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18558   |        | XA403     | 03  |     |        |           |     |      |             |      |       | XC0PDB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18563   |        | XA403     | 04  |     |        |           |     |      |             |      |       | XC0PDB4R      | 02     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 21232   |        | XA403     | 04  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18571   |        | XA403     | 05  |     |        |           |     |      |             |      |       | XC00DB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18575   |        | XA403     | 06  |     | XA533  | 05        |     |      | 16B         | 9    |       | XC00DB4R      | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 21233   |        | XA403     | 06  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18584   |        | XA403     | 07  |     |        |           |     |      |             |      |       | XC01DB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18588   |        | XA403     | 08  |     | XA533  | 19        |     |      | 16B         | 9    |       | XC01DB4R      | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 21234   |        | XA403     | 08  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18597   |        | XA403     | 09  |     |        |           |     |      |             |      |       | XC02DB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18601   |        | XA403     | 10  |     | XA533  | 16        |     |      | 16B         | 9    |       | XC02DB4R      | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 06734   |        | XA403     | 11  |     |        |           |     |      |             |      |       | SPP           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 02673   |        | XA403     | 12  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18610   |        | XA403     | 13  |     |        |           |     |      |             |      |       | XC03DB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18614   |        | XA403     | 14  |     | XA533  | 02        |     |      | 16B         | 9    |       | XC03DB4R      | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 21235   |        | XA403     | 14  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 06735   |        | XA403     | 15  |     |        |           |     |      |             |      |       | SPP           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 02674   |        | XA403     | 16  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18623   |        | XA403     | 17  |     |        |           |     |      |             |      |       | XC04DB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18627   |        | XA403     | 18  |     | XA533  | 25        |     |      | 16B         | 9    |       | XC04DB4R      | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 21236   |        | XA403     | 18  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18636   |        | XA403     | 19  |     |        |           |     |      |             |      |       | XC05DB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18640   |        | XA403     | 20  |     | XA533  | 39        |     |      | 16B         | 9    |       | XC05DB4R      | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 21237   |        | XA403     | 20  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18649   |        | XA403     | 21  |     |        |           |     |      |             |      |       | XC06DB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18653   |        | XA403     | 22  |     | XA533  | 42        |     |      | 16B         | 9    |       | XC06DB4R      | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 21238   |        | XA403     | 22  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18662   |        | XA403     | 23  |     |        |           |     |      |             |      |       | XC07DB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18666   |        | XA403     | 24  |     | XA533  | 21        |     |      | 16B         | 9    |       | XC07DB4R      | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 21239   |        | XA403     | 24  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18380   |        | XA403     | 25  |     |        |           |     |      |             |      |       | XCR0DB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18386   |        | XA403     | 26  |     |        |           |     |      |             |      |       | XCR0DB4R      | 02     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 21240   |        | XA403     | 26  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 06736   |        | XA403     | 27  |     |        |           |     |      |             |      |       | SPP           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 02675   |        | XA403     | 28  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 18403   |        | XA403     | 29  |     |        |           |     |      |             |      |       | XCR1DB4       | 03     |        |          |      | EXT    |                  |       |                     |                    | A01                |        |
| 18408   |        | XA403     | 30  |     |        |           |     |      |             |      |       | XCR1DB4R      | 02     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 21241   |        | XA403     | 30  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 06737   |        | XA403     | 31  |     |        |           |     |      |             |      |       | SPP           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| 02676   |        | XA403     | 32  |     |        |           |     |      |             |      |       | GND           | 01     |        |          |      | EXT    |                  |       |                     |                    |                    |        |
| CONNECTOR XA403 CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |      |             |      |       |               |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA403  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 265

| RECORD NUMBER | FROM      |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCHOR | SIGNAL DESCRIPTION | ECO NO |               |
|---------------|-----------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|---------------|
|               | PREFIX    | CONNECTOR | PIN                             | NAME | PREFIX | CONNECTOR | PIN | NAME | MULTI GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |       |                     |                    |                    |        | IPC INST MISC |
| 18425         |           | XA403     | 33                              |      |        |           |     |      |             |      |       |       | XCR2DB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01    |               |
| 18430         |           | XA403     | 34                              |      |        |           |     |      |             |      |       |       | XCR2DB4R | 02     |          |      |        |                  |       |                     |                    |                    |        |               |
| 21242         |           | XA403     | 34                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 18447         |           | XA403     | 35                              |      |        |           |     |      |             |      |       |       | XCR3DB4  | 03     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 18452         |           | XA403     | 36                              |      |        |           |     |      |             |      |       |       | XCR3DB4R | 02     |          |      |        |                  |       |                     |                    |                    |        |               |
| 21243         |           | XA403     | 36                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 18469         |           | XA403     | 37                              |      |        |           |     |      |             |      |       |       | XCR4DB4  | 03     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 18474         |           | XA403     | 38                              |      |        |           |     |      |             |      |       |       | XCR4DB4R | 02     |          |      |        |                  |       |                     |                    |                    |        |               |
| 21244         |           | XA403     | 38                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 18491         |           | XA403     | 39                              |      |        |           |     |      |             |      |       |       | XCR5DB4  | 03     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 18496         |           | XA403     | 40                              |      |        |           |     |      |             |      |       |       | XCR5DB4R | 02     |          |      |        |                  |       |                     |                    |                    |        |               |
| 21245         |           | XA403     | 40                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 18513         |           | XA403     | 41                              |      |        |           |     |      |             |      |       |       | XCR6DB4  | 03     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 18518         |           | XA403     | 42                              |      |        |           |     |      |             |      |       |       | XCR6DB4R | 02     |          |      |        |                  |       |                     |                    |                    |        |               |
| 21246         |           | XA403     | 42                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06738         |           | XA403     | 43                              |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02677         |           | XA403     | 44                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 18533         |           | XA403     | 45                              |      |        |           |     |      |             |      |       |       | XCR7DB4  | 03     |          |      |        |                  |       |                     |                    |                    |        |               |
| 18537         |           | XA403     | 46                              |      |        | XA535     | 67  |      |             | 16B  | 9     |       | XCR7DB4R | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 21247         |           | XA403     | 46                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 18299         |           | XA403     | 47                              |      |        |           |     |      |             |      |       |       | XCENDB4  | 03     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 18303         |           | XA403     | 48                              |      |        | XA535     | 59  |      |             | 16B  | 9     |       | XCENDB4R | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 21248         |           | XA403     | 48                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 18258         |           | XA403     | 49                              |      |        |           |     |      |             |      |       |       | XCCMDB4  | 03     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 18262         |           | XA403     | 50                              |      |        | XA535     | 79  |      |             | 16B  | 9     |       | XCCMDB4R | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 21249         |           | XA403     | 50                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 18329         |           | XA403     | 51                              |      |        |           |     |      |             |      |       |       | XCINDB4  | 03     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 18333         |           | XA403     | 52                              |      |        | XA535     | 77  |      |             | 16B  | 9     |       | XCINDB4R | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 21250         |           | XA403     | 52                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06739         |           | XA403     | 53                              |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02678         |           | XA403     | 54                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06740         |           | XA403     | 55                              |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02679         |           | XA403     | 56                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06741         |           | XA403     | 57                              |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02680         |           | XA403     | 58                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06742         |           | XA403     | 59                              |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02681         |           | XA403     | 60                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06743         |           | XA403     | 61                              |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02682         |           | XA403     | 62                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06744         |           | XA403     | 63                              |      |        | XA403     | 65  |      |             | 16B  | 9     |       | +5IOET   | 03F    |          |      |        |                  |       |                     |                    |                    |        |               |
| 02683         |           | XA403     | 64                              |      |        |           |     |      |             |      |       |       | +5IOEG   | 02     |          |      |        |                  |       |                     |                    |                    |        |               |
| 21251         |           | XA403     | 64                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06745         |           | XA403     | 65                              |      |        | XA503     | 79  |      |             | 16B  | 9     |       | +5IOET   | 035    |          |      |        |                  |       |                     |                    |                    |        |               |
| 02684         |           | XA403     | 66                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06746         |           | XA403     | 67                              |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02685         |           | XA403     | 68                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06747         |           | XA403     | 69                              |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02686         |           | XA403     | 70                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 06748         |           | XA403     | 71                              |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02687         |           | XA403     | 72                              |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
|               | CONNECTOR | XA403     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |          |        |          |      |        |                  |       |                     |                    |                    |        |               |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA403  
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| RECORD NUMBER | FROM      |           |                                  |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|-----------|-----------|----------------------------------|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX    | CONNECTOR | PIN                              | SH FT | PREFIX | CONNECTOR | PIN | SH FT | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 06749         |           | XA403     | 73                               |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03487         |           | XA403     | 74                               |       | XA403  | 76        |     |       |             | 16B  | 9     |       | G40344  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06750         |           | XA403     | 75                               |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 03488         |           | XA403     | 76                               | 3     | XA504  | 02        | 3   |       |             | 16B  | 9     |       | G40344  | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06751         |           | XA403     | 77                               |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02688         |           | XA403     | 78                               |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 06752         |           | XA403     | 79                               |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 02689         |           | XA403     | 80                               |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20027         |           | XA404     | 01                               |       |        |           |     |       |             |      |       |       | YI0PCB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20028         |           | XA404     | 02                               |       | XA418  | 67        |     | CD    |             | 16B  | 0     |       | YI0PCG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20932         |           | XA404     | 02                               |       | XA404  | 04        |     |       |             | 16B  | 9     |       | GND017  | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20032         |           | XA404     | 03                               |       |        |           |     |       |             |      |       |       | YI00CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20033         |           | XA404     | 04                               |       | XA419  | 05        |     | CE    |             | 16B  | 0     |       | YI00CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20933         |           | XA404     | 04                               |       | XA404  | 06        |     |       |             | 16B  | 9     |       | GND017  | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20037         |           | XA404     | 05                               |       |        |           |     |       |             |      |       |       | YI01CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20038         |           | XA404     | 06                               |       | XA419  | 19        |     | CF    |             | 16B  | 0     |       | YI01CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20934         |           | XA404     | 06                               |       | XA404  | 08        |     |       |             | 16B  | 9     |       | GND017  | 04     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20042         |           | XA404     | 07                               |       |        |           |     |       |             |      |       |       | YI02CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20043         |           | XA404     | 08                               |       | XA419  | 16        |     | CG    |             | 16B  | 0     |       | YI02CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20935         |           | XA404     | 08                               |       | XA404  | 10        |     |       |             | 16B  | 9     |       | GND017  | 05     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20047         |           | XA404     | 09                               |       |        |           |     |       |             |      |       |       | YI03CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20048         |           | XA404     | 10                               |       | XA419  | 02        |     | CH    |             | 16B  | 0     |       | YI03CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20936         |           | XA404     | 10                               |       | XA404  | 12        |     |       |             | 16B  | 9     |       | GND017  | 06     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20052         |           | XA404     | 11                               |       |        |           |     |       |             |      |       |       | YI04CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20053         |           | XA404     | 12                               |       | XA419  | 25        |     | CI    |             | 16B  | 0     |       | YI04CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20937         |           | XA404     | 12                               |       | XA404  | 14        |     |       |             | 16B  | 9     |       | GND017  | 07     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20057         |           | XA404     | 13                               |       |        |           |     |       |             |      |       |       | YI05CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20058         |           | XA404     | 14                               |       | XA419  | 39        |     | CJ    |             | 16B  | 0     |       | YI05CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20938         |           | XA404     | 14                               |       | XA404  | 16        |     |       |             | 16B  | 9     |       | GND017  | 08     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20062         |           | XA404     | 15                               |       |        |           |     |       |             |      |       |       | YI06CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20063         |           | XA404     | 16                               |       | XA419  | 42        |     | CK    |             | 16B  | 0     |       | YI06CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20939         |           | XA404     | 16                               |       | XA404  | 18        |     |       |             | 16B  | 9     |       | GND017  | 09     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20067         |           | XA404     | 17                               |       |        |           |     |       |             |      |       |       | YI07CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20068         |           | XA404     | 18                               |       | XA419  | 21        |     | CL    |             | 16B  | 0     |       | YI07CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20940         |           | XA404     | 18                               |       | XA404  | 20        |     |       |             | 16B  | 9     |       | GND017  | 10     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20072         |           | XA404     | 19                               |       |        |           |     |       |             |      |       |       | YI08CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20073         |           | XA404     | 20                               |       | XA419  | 45        |     | CM    |             | 16B  | 0     |       | YI08CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20941         |           | XA404     | 20                               |       |        |           |     |       |             |      |       |       | GND017  | 11     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20077         |           | XA404     | 21                               |       |        |           |     |       |             |      |       |       | YI09CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20078         |           | XA404     | 22                               |       | XA419  | 53        |     | CN    |             | 16B  | 0     |       | YI09CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20942         |           | XA404     | 22                               |       | XA404  | 24        |     |       |             | 16B  | 9     |       | GND018  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20082         |           | XA404     | 23                               |       |        |           |     |       |             |      |       |       | YI10CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20083         |           | XA404     | 24                               |       | XA419  | 58        |     | CP    |             | 16B  | 0     |       | YI10CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20943         |           | XA404     | 24                               |       | XA404  | 26        |     |       |             | 16B  | 9     |       | GND018  | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20087         |           | XA404     | 25                               |       |        |           |     |       |             |      |       |       | YI11CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20088         |           | XA404     | 26                               |       | XA419  | 44        |     | CQ    |             | 16B  | 0     |       | YI11CG  | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20944         |           | XA404     | 26                               |       | XA404  | 28        |     |       |             | 16B  | 9     |       | GND018  | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 20092         |           | XA404     | 27                               |       |        |           |     |       |             |      |       |       | YI12CB4 | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
|               | CONNECTOR | XA404     | CONTINUED ON THE NEXT PAGE. **** |       |        |           |     |       |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA404  
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| RECORD NUMBER                                     | FROM   |           |     | TO    | WIRE |             |      |        | SIGNAL  | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|------|-------------|------|--------|---------|--------|----------|-------------|------------------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |       | PIN  | MULTI GROUP | CODE | COL 3R |         |        |          |             |                  |                     |                    |                    |        |
| 20093   | XA404  |           | 28  | XA419 | 67   | CR          | 1EB  | 0      | YI12CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20945   | XA404  |           | 28  | XA404 | 30   |             | 1EB  | 9      | GND018  | 04     |          |             | EXT              |                     |                    |                    |        |
| 20057   | XA404  |           | 29  |       |      |             |      |        | YI13CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20098   | XA404  |           | 30  | XA419 | 77   | CS          | 1EB  | 0      | YI13CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20946   | XA404  |           | 30  | XA404 | 32   |             | 1EB  | 9      | GND018  | 05     |          |             | EXT              |                     |                    |                    |        |
| 20102   | XA404  |           | 31  |       |      |             |      |        | YI14CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20103   | XA404  |           | 32  | XA419 | 79   | CT          | 1EB  | 0      | YI14CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20947   | XA404  |           | 32  | XA404 | 34   |             | 1EB  | 9      | GND018  | 06     |          |             | EXT              |                     |                    |                    |        |
| 20107   | XA404  |           | 33  |       |      |             |      |        | YI15CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20108   | XA404  |           | 34  | XA419 | 59   | CU          | 1EB  | 0      | YI15CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20948   | XA404  |           | 34  | XA404 | 36   |             | 1EB  | 9      | GND018  | 07     |          |             | EXT              |                     |                    |                    |        |
| 20112   | XA404  |           | 35  |       |      |             |      |        | YI16CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20113   | XA404  |           | 36  | XA416 | 45   | CV          | 1EB  | 0      | YI16CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20949   | XA404  |           | 36  | XA404 | 38   |             | 1EB  | 9      | GND018  | 08     |          |             | EXT              |                     |                    |                    |        |
| 20117   | XA404  |           | 37  |       |      |             |      |        | YI17CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20118   | XA404  |           | 38  | XA416 | 53   | DA          | 1EB  | 0      | YI17CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20950   | XA404  |           | 38  | XA404 | 40   |             | 1EB  | 9      | GND018  | 09     |          |             | EXT              |                     |                    |                    |        |
| 20122   | XA404  |           | 39  |       |      |             |      |        | YI18CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20123   | XA404  |           | 40  | XA416 | 58   | DB          | 1EB  | 0      | YI18CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20951   | XA404  |           | 40  | XA405 | 32   |             | 1EB  | 9      | GND018  | 10     |          |             | EXT              |                     |                    |                    |        |
| 20127   | XA404  |           | 41  |       |      |             |      |        | YI19CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20128   | XA404  |           | 42  | XA416 | 44   | DC          | 1EB  | 0      | YI19CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20954   | XA404  |           | 42  | XA404 | 44   |             | 1EB  | 9      | GND019  | 02     |          |             | EXT              |                     |                    |                    |        |
| 20132   | XA404  |           | 43  |       |      |             |      |        | YI20CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20133   | XA404  |           | 44  | XA416 | 67   | DD          | 1EB  | 0      | YI20CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20955   | XA404  |           | 44  | XA404 | 46   |             | 1EB  | 9      | GND019  | 03     |          |             | EXT              |                     |                    |                    |        |
| 20137   | XA404  |           | 45  |       |      |             |      |        | YI21CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20138   | XA404  |           | 46  | XA416 | 77   | DE          | 1EB  | 0      | YI21CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20956   | XA404  |           | 46  | XA404 | 48   |             | 1EB  | 9      | GND019  | 04     |          |             | EXT              |                     |                    |                    |        |
| 20142   | XA404  |           | 47  |       |      |             |      |        | YI22CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20143   | XA404  |           | 48  | XA416 | 79   | DF          | 1EB  | 0      | YI22CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20957   | XA404  |           | 48  | XA404 | 50   |             | 1EB  | 9      | GND019  | 05     |          |             | EXT              |                     |                    |                    |        |
| 20147   | XA404  |           | 49  |       |      |             |      |        | YI23CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20148   | XA404  |           | 50  | XA416 | 59   | DG          | 1EB  | 0      | YI23CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20958   | XA404  |           | 50  | XA404 | 52   |             | 1EB  | 9      | GND019  | 06     |          |             | EXT              |                     |                    |                    |        |
| 20152   | XA404  |           | 51  |       |      |             |      |        | YI24CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20153   | XA404  |           | 52  | XA420 | 05   | DH          | 1EB  | 0      | YI24CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20959   | XA404  |           | 52  | XA404 | 54   |             | 1EB  | 9      | GND019  | 07     |          |             | EXT              |                     |                    |                    |        |
| 20157   | XA404  |           | 53  |       |      |             |      |        | YI25CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20158   | XA404  |           | 54  | XA420 | 19   | DI          | 1EB  | 0      | YI25CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20960   | XA404  |           | 54  | XA404 | 56   |             | 1EB  | 9      | GND019  | 08     |          |             | EXT              |                     |                    |                    |        |
| 20162   | XA404  |           | 55  |       |      |             |      |        | YI26CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20163   | XA404  |           | 56  | XA420 | 16   | DJ          | 1EB  | 0      | YI26CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20961   | XA404  |           | 56  | XA404 | 58   |             | 1EB  | 9      | GND019  | 09     |          |             | EXT              |                     |                    |                    |        |
| 20167   | XA404  |           | 57  |       |      |             |      |        | YI27CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20168   | XA404  |           | 58  | XA420 | 02   | DK          | 1EB  | 0      | YI27CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20962   | XA404  |           | 58  | XA404 | 60   |             | 1EB  | 9      | GND019  | 10     |          |             | EXT              |                     |                    |                    |        |
| 20172   | XA404  |           | 59  |       |      |             |      |        | YI28CB4 | 03     |          |             | EXT              |                     |                    |                    |        |
| 20173   | XA404  |           | 60  | XA420 | 25   | DL          | 1EB  | 0      | YI28CG  | 01     |          |             | EXT              |                     |                    |                    |        |
| 20963   | XA404  |           | 6C  |       |      |             |      |        | GND019  | 11     |          |             | EXT              |                     |                    |                    |        |
| CONNECTOR (XA404) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |      |             |      |        |         |        |          |             |                  |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

UNIT ASSEMBLY NO. 149019  
 FILE IDENT T39BIUX2

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| RECORD NUMBER | FROM   |                                 |     |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION | LEAD | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---------------|--------|---------------------------------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|               | PREFIX | CONNECTOR                       | PIH | REF | PREFIX | CONNECTOR | PIH | REF | MULTI GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |       |                     |                    |                    |                  |
| 20177         |        | XA404                           | 61  |     |        |           |     |     |             |      |       |       | YI29CB4  | 03     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20178         |        | XA404                           | 62  |     | XA420  | 39        |     |     | DM          | 1EB  | 0     |       | YI29CG   | 01     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20965         |        | XA404                           | 62  |     | XA404  | 64        |     |     |             | 16B  | 9     |       | GND020   | 02     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20182         |        | XA404                           | 63  |     |        |           |     |     |             |      |       |       | YI30CB4  | 03     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20183         |        | XA404                           | 64  |     | XA420  | 42        |     |     | DN          | 1EB  | 0     |       | YI30CG   | 01     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20966         |        | XA404                           | 64  |     | XA404  | 66        |     |     |             | 16B  | 9     |       | GND020   | 03     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20187         |        | XA404                           | 65  |     |        |           |     |     |             |      |       |       | YI31CB4  | 03     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20188         |        | XA404                           | 66  |     | XA420  | 21        |     |     | DP          | 1EB  | 0     |       | YI31CG   | 01     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20967         |        | XA404                           | 66  |     | XA404  | 68        |     |     |             | 16B  | 9     |       | GND020   | 04     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20199         |        | XA404                           | 67  |     | XA420  | 43        |     |     |             | 16B  | 9     |       | YMMICB   | 005    |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20829         |        | XA404                           | 68  | 3   | XA420  | 44        |     | 3   |             | 16B  | 9     |       | YMMICG   | 01     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20968         |        | XA404                           | 68  |     | XA404  | 70        |     |     |             | 16B  | 9     |       | GND020   | 05     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20019         |        | XA404                           | 69  |     |        |           |     |     |             |      |       |       | YADCCB4  | 03     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20812         |        | XA404                           | 70  |     |        |           |     |     |             |      |       |       | YADCCG   | 02     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20969         |        | XA404                           | 70  |     | XA404  | 72        |     |     |             | 16B  | 9     |       | GND020   | 06     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20022         |        | XA404                           | 71  |     |        |           |     |     |             |      |       |       | YHLCCB4  | 03     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20023         |        | XA404                           | 72  |     | XA418  | 25        |     |     | CC          | 1EB  | 0     |       | YHLCCG   | 01     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20970         |        | XA404                           | 72  |     | XA404  | 78        |     |     |             | 16B  | 9     |       | GND020   | 07     |          |      |        | EXT              |       |                     |                    |                    | D01              |
| 20206         |        | XA404                           | 73  |     | XA421  | 29        |     |     | HA          | 1EB  | 0     |       | YSNICHX  | 01     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20205         |        | XA404                           | 74  |     | XA421  | 31        |     |     | HA          | 1EB  | 9     |       | YSNLCGX5 | 01     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20213         |        | XA404                           | 75  |     |        |           |     |     |             |      |       |       | YSN2CHX  | 02     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20211         |        | XA404                           | 76  |     |        |           |     |     |             |      |       |       | YSN2CGX5 | 04     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 06753         |        | XA404                           | 77  |     |        |           |     |     |             |      |       |       | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20239         |        | XA404                           | 78  |     | XA404  | 80        |     |     |             | 16B  | 9     |       | GND020   | 10     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20830         |        | XA404                           | 79  |     | XA430  | 71        |     |     | HC          | 1EB  | 9     |       | YPRFCB4  | 01     |          |      |        | EXT              |       |                     |                    |                    | E02              |
| 20831         |        | XA404                           | 80  |     | XA429  | 67        |     |     | HC          | 1EB  | 0     |       | YPRFCG   | 01     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 20973         |        | XA404                           | 80  |     |        |           |     |     |             |      |       |       | GND020   | 11     |          |      |        | EXT              |       |                     |                    |                    |                  |
| 04767         |        | XA405                           | 01  |     | XA405  | 24        |     |     |             | 16B  | 9     |       | RTCQ2A   | 01     | RTCN1N   | 01   | 1      | TDD              | BN    |                     | 02B                |                    |                  |
| 02690         |        | XA405                           | 02  |     |        |           |     |     |             |      |       |       | GND      | 01     |          |      |        | TDD              |       |                     |                    | 01B                |                  |
| 20931         |        | XA405                           | 02  |     | XA404  | 02        |     |     |             | 16B  | 9     |       | GND017   | 01     |          |      |        | TDD              |       |                     |                    | 01B                |                  |
| 05773         |        | XA405                           | 03  |     | XA405  | 17        |     |     |             | 16B  | 9     |       | SPI030   | 31     | RTCNIQ   | 01   | 1      | TDD              | BQ    |                     | 02A                |                    |                  |
| 04707         |        | XA405                           | 04  |     |        |           |     |     |             |      |       |       | RTCCLB   | 22     | RTCNI1   | 01   | 1      | TDD              | BP    |                     | 04A                |                    | MASTER RESET - F |
| 04733         |        | XA405                           | 05  |     |        |           |     |     |             |      |       |       | RTCNOP   | 05     | RTCNI1   | 01   | 1      | TDD              | BI    |                     | 03B                |                    |                  |
| 04650         |        | XA405                           | 06  |     | XA406  | 07        |     |     |             | 16B  | 9     |       | REN2A    | 01     | RTRQ2P   | 01   | 1      | TDD              | AP    |                     | 05A                |                    |                  |
| 04744         |        | XA405                           | 07  |     | XA407  | 61        |     |     |             | 16B  | 9     |       | RTCNIQ   | 01     | RTCNIQ   | 00   | 1      | TDD              | BQ    |                     | 03A                |                    | RTC 1-PRESET     |
| 04818         |        | XA405                           | 08  |     | XA445  | 59        |     |     |             | 16B  | 9     |       | RTEN2S   | 01     | RTRQ2I   | 01   | 1      | TDD              | AI    |                     | 06A                |                    |                  |
| 04738         |        | XA405                           | 09  |     | XA407  | 53        |     |     |             | 16B  | 9     |       | RTCNI1P  | 01     | RTCNI1P  | 00   | 1      | TDD              | BP    |                     | 04B                |                    | RTC 1-PRERESET   |
| 04727         |        | XA405                           | 10  |     | XA406  | 57        |     |     |             | 16B  | 9     |       | RTCL20   | 01     | RTRQ2N   | 01   | 1      | TDD              | AN    |                     | 07A                |                    |                  |
| 04831         |        | XA405                           | 11  |     | XA444  | 36        |     |     |             | 16B  | 9     |       | RTRQ2P   | 01     | RTRQ2P   | 00   | 1      | TDD              | AP    |                     | 05B                |                    | RTC 2 REQUEST-PR |
| 00564         |        | XA405                           | 12  |     |        |           |     |     |             |      |       |       | +5V      | 01     |          |      |        | TDD              |       |                     |                    |                    |                  |
| 04835         |        | XA405                           | 13  |     |        |           |     |     |             |      |       |       | RTRQ2Q   | 03     | RTRQ2Q   | 00   | 1      | TDD              | AQ    |                     | 06B                |                    | RTC 2 REQUEST-PR |
| 04775         |        | XA405                           | 14  |     |        |           |     |     |             |      |       |       | RTCQ4A   | 03     | RTCNI3N  | 01   | 1      | TDD              | DN    |                     | 09A                |                    |                  |
| 05782         |        | XA405                           | 15  |     | XA339  | 80        |     |     |             | 16B  | 9     |       | SPI031   | 03     | RTRQ2Q   | 01   | 1      | TDD              | AQ    |                     | 07B                |                    |                  |
| 02691         |        | XA405                           | 16  |     |        |           |     |     |             |      |       |       | GND      | 01     |          |      |        | TDD              |       |                     |                    | 20B                |                  |
| 05774         |        | XA405                           | 17  |     | XA405  | 29        |     |     |             | 16B  | 9     |       | SPI030   | 32     | RTCNI3Q  | 01   | 1      | TDD              | DQ    |                     | 08B                |                    |                  |
| 04772         |        | XA405                           | 18  |     |        |           |     |     |             |      |       |       | RTCQ3A   | 02     | RTCNI3I  | 01   | 1      | TDD              | DI    |                     | 10A                |                    |                  |
| 04753         |        | XA405                           | 19  |     |        |           |     |     |             |      |       |       | RTCNI3Q  | 02     | RTCNI3Q  | 00   | 1      | TDD              | DQ    |                     | 09B                |                    |                  |
| 04703         |        | XA405                           | 20  |     | XA406  | 19        |     |     |             | 16B  | 9     |       | RTCCLB   | 18     | RTCNI3P  | 01   | 1      | TDD              | DP    |                     | 11A                |                    | MASTER RESET - F |
| CONNECTOR     | XA405  | CONTINUED ON THE NEXT PAGE **** |     |     |        |           |     |     |             |      |       |       |          |        |          |      |        |                  |       |                     |                    |                    |                  |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA405  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 269

| RECORD NUMBER | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       |            |  | SIGNAL | SEQ NO | EQUATION | TERM   | FACT   | CKT OR CHIP TYPE | GROUP | LOAD GR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |                |  |
|---------------|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|------------|--|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|----------------|--|
|               | PREFIX | CONNECTOR | PIH | WIRE | PREFIX | CONNECTOR | PIH | WIRE | MULTI GROUP | CODE | COLOR | IDENT | TEST POINT |  |        |        |          |        |        |                  |       |                     |                    |                    |                  |                |  |
| 04750         |        | XA405     | 21  |      |        | XA414     | 62  |      |             |      |       | 168   | 9          |  |        | RTCN3P | 01       | RTCN3P | 00     | 1                | TDD   | DP                  |                    | 10B                | RTC 3-PRERESET   |                |  |
| 04702         |        | XA405     | 22  |      |        | XA405     | 20  |      |             |      |       | 168   | 9          |  |        | RTCCLB | 17       | RTCN2P | 01     | 1                | TDD   | CP                  |                    | 12A                | MASTER RESET - F |                |  |
| 20336         |        | XA405     | 23  |      |        |           |     |      |             |      |       |       |            |  |        | M      | RTCN2P   | 01     | RTCN2P | 00               | 1     | TDD                 | CP                 |                    | 11B              | RTC 2-PRERESET |  |
| 04768         |        | XA405     | 24  |      |        | XA406     | 40  |      |             |      |       | 168   | 9          |  |        | RTCQ2A | 02       | RTCN2I | 01     | 1                | TDD   | CI                  |                    | 13A                |                  |                |  |
| 04749         |        | XA405     | 25  |      |        |           |     |      |             |      |       |       |            |  |        | RTCN2Q | 02       | RTCN2Q | 00     | 1                | TDD   | CQ                  |                    | 12B                | RTC 2-PRESET     |                |  |
| 04796         |        | XA405     | 26  |      |        | XA406     | 10  |      |             |      |       | 168   | 9          |  |        | RTC1E0 | 01       | RTCN2N | 01     | 1                | TDD   | CN                  |                    | 14A                |                  |                |  |
| 05781         |        | XA405     | 27  |      |        | XA405     | 15  |      |             |      |       | 168   | 9          |  |        | SPI031 | 02       | RTCN2Q | 01     | 1                | TDD   | CQ                  |                    | 13B                |                  |                |  |
| 00565         |        | XA405     | 28  |      |        |           |     |      |             |      |       |       |            |  |        | +5V    |          |        |        |                  |       |                     |                    |                    |                  |                |  |
| 05775         |        | XA405     | 29  |      |        | XA405     | 41  |      |             |      |       | 168   | 9          |  |        | SPI030 | 33       | RTCN9Q | 01     | 1                | TDD   | FQ                  |                    | 14B                |                  |                |  |
| 04610         |        | XA405     | 30  |      |        |           |     |      |             |      |       |       |            |  |        | RCK01J | 02       | RTCN9Q | 01     | 1                | TDD   | FN                  |                    | 15A                |                  |                |  |
| 04766         |        | XA405     | 31  |      |        |           |     |      |             |      |       |       |            |  |        | RTCN9Q | 02       | RTCN9Q | 03     | 1                | TDD   | FQ                  |                    | 15B                |                  |                |  |
| 02692         |        | XA405     | 32  |      |        |           |     |      |             |      |       |       |            |  |        | GND    | 01       |        |        |                  |       |                     |                    | 21B                |                  |                |  |
| 20952         |        | XA405     | 32  |      |        |           |     |      |             |      |       |       |            |  |        | GND018 | 11       |        |        |                  |       |                     |                    | 21B                |                  |                |  |
| 20342         |        | XA405     | 33  |      |        |           |     |      |             |      |       |       |            |  |        | M      | RTCN9P   | 01     | RTCN9P | 00               | 1     | TDD                 | FP                 |                    | 16B              | RTC 5-PRERESET |  |
| 04790         |        | XA405     | 34  |      |        | XA143     | 79  |      |             |      |       | 168   | 9          |  |        | RTCQ9A | 03       | RTCN9I | 01     | 1                | TDD   | FI                  |                    | 16A                |                  |                |  |
| 20337         |        | XA405     | 35  |      |        |           |     |      |             |      |       |       |            |  |        | M      | RTCN4P   | 01     | RTCN4P | 03               | 1     | TDD                 | EP                 |                    | 17B              | RTC 4-PRERESET |  |
| 04699         |        | XA405     | 36  |      |        | XA406     | 26  |      |             |      |       | 168   | 9          |  |        | RTCCLB | 14       | RTCN9P | 01     | 1                | TDD   | FP                  |                    | 17A                | MASTER RESET - F |                |  |
| 04755         |        | XA405     | 37  |      |        |           |     |      |             |      |       |       |            |  |        | RTCN4Q | 02       | RTCN4Q | 00     | 1                | TDD   | EQ                  |                    | 18B                |                  |                |  |
| 04698         |        | XA405     | 38  |      |        | XA405     | 36  |      |             |      |       | 168   | 9          |  |        | RTCCLB | 13       | RTCN4P | 01     | 1                | TDD   | EP                  |                    | 18A                | MASTER RESET - F |                |  |
| 05780         |        | XA405     | 39  |      |        | XA405     | 27  |      |             |      |       | 168   | 9          |  |        | SPI031 | 01       | RTCN4Q | 01     | 1                | TDD   | EQ                  |                    | 19B                |                  |                |  |
| 04773         |        | XA405     | 40  |      |        | XA406     | 30  |      |             |      |       | 168   | 9          |  |        | RTCQ4A | 01       | RTCN4I | 01     | 1                | TDD   | EI                  |                    | 19A                |                  |                |  |
| 05776         |        | XA405     | 41  |      |        | XA405     | 53  |      |             |      |       | 168   | 9          |  |        | SPI030 | 34       | RTCN5Q | 01     | 1                | TDD   | HQ                  |                    | 22B                |                  |                |  |
| 04777         |        | XA405     | 42  |      |        | XA406     | 31  |      |             |      |       | 168   | 9          |  |        | RTCQ5A | 02       | RTCN4N | 01     | 1                | TDD   | EN                  |                    | 20A                |                  |                |  |
| 04757         |        | XA405     | 43  |      |        |           |     |      |             |      |       |       |            |  |        | RTCN5Q | 02       | RTCN5Q | 00     | 1                | TDD   | HQ                  |                    | 23B                |                  |                |  |
| 02693         |        | XA405     | 44  |      |        |           |     |      |             |      |       |       |            |  |        | GND    | 01       |        |        |                  |       |                     |                    | 27A                |                  |                |  |
| 20953         |        | XA405     | 44  |      |        | XA404     | 42  |      |             |      |       | 168   | 9          |  |        | GND019 | 01       |        |        |                  |       |                     |                    | 27A                |                  |                |  |
| 20338         |        | XA405     | 45  |      |        |           |     |      |             |      |       |       |            |  |        | M      | RTCN5P   | 01     | RTCN5P | 03               | 1     | TDD                 | HP                 |                    | 24B              | RTC 7-PRERESET |  |
| 04780         |        | XA405     | 46  |      |        | XA405     | 62  |      |             |      |       | 168   | 9          |  |        | RTCQ6A | 02       | RTCN5N | 01     | 1                | TDD   | HN                  |                    | 21A                |                  |                |  |
| 20340         |        | XA405     | 47  |      |        |           |     |      |             |      |       |       |            |  |        | M      | RTCN7P   | 01     | RTCN7P | 00               | 1     | TDD                 | GP                 |                    | 25B              | RTC 6-PRERESET |  |
| 04776         |        | XA405     | 48  |      |        | XA405     | 42  |      |             |      |       | 168   | 9          |  |        | RTCQ5A | 01       | RTCN5I | 01     | 1                | TDD   | HI                  |                    | 22A                |                  |                |  |
| 04762         |        | XA405     | 49  |      |        |           |     |      |             |      |       |       |            |  |        | RTCN7Q | 03       | RTCN7Q | 00     | 1                | TDD   | GQ                  |                    | 26B                |                  |                |  |
| 04697         |        | XA405     | 50  |      |        | XA405     | 38  |      |             |      |       | 168   | 9          |  |        | RTCCLB | 12       | RTCN5P | 01     | 1                | TDD   | HP                  |                    | 23A                | MASTER RESET - F |                |  |
| 05846         |        | XA405     | 51  |      |        | XA407     | 37  |      |             |      |       | 168   | 9          |  |        | SPI032 | 30       | RTCN7Q | 01     | 1                | TDD   | GQ                  |                    | 27B                |                  |                |  |
| 04696         |        | XA405     | 52  |      |        | XA405     | 50  |      |             |      |       | 168   | 9          |  |        | RTCCLB | 11       | RTCN7P | 01     | 1                | TDD   | GP                  |                    | 24A                | MASTER RESET - F |                |  |
| 05777         |        | XA405     | 53  |      |        | XA405     | 65  |      |             |      |       | 168   | 9          |  |        | SPI030 | 35       | RTCN6Q | 01     | 1                | TDD   | KQ                  |                    | 28B                |                  |                |  |
| 04783         |        | XA405     | 54  |      |        | XA406     | 42  |      |             |      |       | 168   | 9          |  |        | RTCQ7A | 02       | RTCN7I | 01     | 1                | TDD   | GI                  |                    | 25A                |                  |                |  |
| 04758         |        | XA405     | 55  |      |        | XA406     | 35  |      |             |      |       | 168   | 9          |  |        | RTCN6Q | 01       | RTCN6Q | 00     | 1                | TDD   | KQ                  |                    | 29B                |                  |                |  |
| 04786         |        | XA405     | 56  |      |        | XA406     | 54  |      |             |      |       | 168   | 9          |  |        | RTCQ8A | 02       | RTCN7N | 01     | 1                | TDD   | GN                  |                    | 26A                |                  |                |  |
| 20339         |        | XA405     | 57  |      |        |           |     |      |             |      |       |       |            |  |        | M      | RTCN6P   | 01     | RTCN6P | 00               | 1     | TDD                 | KP                 |                    | 30B              | RTC 9-PRERESET |  |
| 02694         |        | XA405     | 58  |      |        |           |     |      |             |      |       |       |            |  |        | GND    | 01       |        |        |                  |       |                     |                    | 40A                |                  |                |  |
| 20341         |        | XA405     | 59  |      |        |           |     |      |             |      |       |       |            |  |        | M      | RTCN8P   | 01     | RTCN8P | 00               | 1     | TDD                 | JP                 |                    | 31B              | RTC 8-PRERESET |  |
| 04782         |        | XA405     | 60  |      |        | XA405     | 54  |      |             |      |       | 168   | 9          |  |        | RTCQ7A | 01       | RTCN8Q | 01     | 1                | TDD   | KN                  |                    | 28A                |                  |                |  |
| 04763         |        | XA405     | 61  |      |        | XA406     | 52  |      |             |      |       | 168   | 9          |  |        | RTCN8Q | 01       | RTCN8Q | 00     | 1                | TDD   | JQ                  |                    | 32B                |                  |                |  |
| 04781         |        | XA405     | 62  |      |        |           |     |      |             |      |       |       |            |  |        | RTCQ6A | 03       | RTCN6I | 01     | 1                | TDD   | KI                  |                    | 29A                |                  |                |  |
| 05845         |        | XA405     | 63  |      |        | XA405     | 51  |      |             |      |       | 168   | 9          |  |        | SPI032 | 29       | RTCN8Q | 01     | 1                | TDD   | JQ                  |                    | 33B                |                  |                |  |
| 04695         |        | XA405     | 64  |      |        | XA405     | 52  |      |             |      |       | 168   | 9          |  |        | RTCCLB | 10       | RTCN6P | 01     | 1                | TDD   | KP                  |                    | 30A                | MASTER RESET - F |                |  |
| 05778         |        | XA405     | 65  |      |        | XA407     | 48  |      |             |      |       | 168   | 9          |  |        | SPI030 | 36       | TINDCQ | 01     | 1                | TDD   | MQ                  |                    | 34B                |                  |                |  |
| 04694         |        | XA405     | 66  |      |        | XA405     | 64  |      |             |      |       | 168   | 9          |  |        | RTCCLB | 09       | RTCN8P | 01     | 1                | TDD   | JP                  |                    | 31A                | MASTER RESET - F |                |  |
| 02695         |        | XA405     | 67  |      |        |           |     |      |             |      |       |       |            |  |        | GND    | 01       |        |        |                  |       |                     |                    | 40B                |                  |                |  |
| 20964         |        | XA405     | 67  |      |        | XA404     | 62  |      |             |      |       | 168   | 9          |  |        | GNDQ20 | 01       |        |        |                  |       |                     |                    | 40B                |                  |                |  |

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DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA405  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 270

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SFQ NO  | EQUATION | TERM    | FAC | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND OP | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|---------|----------|---------|-----|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SR   | MULTI GROUP | CODE | COLOR |        |         |          |         |     |                  |       |                     |                    |                    |        |
| 04785   |        | XA405     | 68  |        | XA405     | 56  |      |             | 16B  | 9     |        | RTCQ8A  | 01       | RTCN8I  | 00  | 1                | TDD   | J1                  | 32A                |                    |        |
| 20497   |        | XA405     | 69  |        |           |     |      |             |      |       |        | TINDCP  | 01       | TINDCP  | 00  | 1                | TDD   | MP                  | 35A                |                    |        |
| 04788   |        | XA405     | 70  |        | XA406     | 48  |      |             | 16B  | 9     |        | RTCQ9A  | 01       | RTCN8N  | 01  | 1                | TDD   | JN                  | 33A                |                    |        |
| 16940   |        | XA405     | 71  |        | XA206     | 03  |      |             | 16B  | 9     |        | TXCOBQ  | 01       | TINDCI  | 01  | 1                | TDD   | MI                  | 36A                |                    |        |
| 13776   |        | XA405     | 72  |        | XA433     | 26  |      |             | 16B  | 9     |        | TKBAAB  | 16       | TINDCN  | 01  | 1                | TDD   | MN                  | 34A                |                    | C09    |
| 13362   |        | XA405     | 73  |        |           |     |      |             |      |       |        | TINDDA  | 02       | TINDCP  | 01  | 1                | TDD   | MP                  | 36B                |                    |        |
| 13360   |        | XA405     | 74  |        |           |     |      |             |      |       |        | TINDCQ  | 02       | TINDCQ  | 00  | 1                | TDD   | MQ                  | 35B                |                    |        |
| 14263   |        | XA405     | 75  |        |           |     |      |             |      |       |        | TFIO5A  | 08       | TSSGAP  | 01  | 1                | TDD   | LP                  | 37B                |                    | B05    |
| 15631   |        | XA405     | 76  |        | XA412     | 56  |      |             | 16B  | 9     |        | TSSGAP  | 01       | TSSGAP  | 00  | 1                | TDD   | LP                  | 37A                |                    |        |
| 15639   |        | XA405     | 77  |        | XA412     | 52  |      |             | 16B  | 9     |        | TSSGCP  | 00       | TSSGAI  | 01  | 1                | TDD   | LI                  | 38B                |                    | B05    |
| 15638   |        | XA405     | 78  |        |           |     |      |             |      |       |        | TSSGAQ  | 03       | TSSGAQ  | 00  | 1                | TDD   | L0                  | 38A                | LSB START CONT REG |        |
| 14904   |        | XA405     | 79  |        |           |     |      |             |      |       |        | TPUSAA  | 04       | TSSGAN  | 01  | 1                | TDD   | LN                  | 39B                |                    |        |
| 05844   |        | XA405     | 80  |        | XA405     | 63  |      |             | 16B  | 9     |        | SPT03Z  | 28       | TSSGAQ  | 01  | 1                | TDD   | LQ                  | 39A                |                    |        |
| 04647   |        | XA406     | 01  |        |           |     |      |             |      |       |        | RENMI1A | 02       | RENMI1A | 00  | 1                | THI   | A4                  | 02B                | RTC 1 ENABLE + M   |        |
| 02696   |        | XA406     | 02  |        |           |     |      |             |      |       |        | GND     | 01       |         |     |                  | THI   |                     | 01A                |                    |        |
| 04643   |        | XA406     | 03  |        |           |     |      |             |      |       |        | RENMOA  | 02       | RENMOA  | 00  | 1                | THI   | A3                  | 03A                | RTC 0 ENABLE + M   |        |
| 04644   |        | XA406     | 04  |        | XA443     | 45  |      |             | 16B  | 9     |        | RENMO0  | 01       | RENMOA  | 01  | 1                | THI   | A3                  | 02A                |                    |        |
| 04648   |        | XA406     | 05  |        | XA443     | 51  |      |             | 16B  | 9     |        | RENMI0  | 01       | RENMI1A | 01  | 1                | THI   | A4                  | 03B                |                    |        |
| 04640   |        | XA406     | 06  |        | XA443     | 46  |      |             | 16B  | 9     |        | RENMS0  | 01       | RENMSA  | 01  | 1                | THI   | A2                  | 05A                |                    |        |
| 04651   |        | XA406     | 07  |        |           |     |      |             |      |       |        | RENMA2A | 02       | RENMA2A | 00  | 1                | THI   | A5                  | 04B                | RTC 2 ENABLE + M   |        |
| 04639   |        | XA406     | 08  |        |           |     |      |             |      |       |        | RENMSA  | 02       | RENMSA  | 00  | 1                | THI   | A2                  | 04A                | SWITCH ENBLE + M   |        |
| 04653   |        | XA406     | 09  |        |           |     |      |             |      |       |        | RENMA20 | 02       | RENMA2A | 01  | 1                | THI   | A5                  | 05B                |                    |        |
| 04797   |        | XA406     | 10  |        |           |     |      |             |      |       |        | RTCTE0  | 02       | RTCTE0  | 00  | 1                | THI   | A6                  | 06B                | (8 KHZ CLOCK) (CY  |        |
| 04718   |        | XA406     | 11  |        |           |     |      |             |      |       |        | RTCL0A  | 02       | RTCL00  | 01  | 1                | THI   | A1                  | 07A                |                    |        |
| 00566   |        | XA406     | 12  |        |           |     |      |             |      |       |        | +5V     | 01       |         |     |                  | THI   |                     |                    |                    |        |
| 04719   |        | XA406     | 13  |        | XA442     | 70  |      |             | 16B  | 9     |        | RTCL00  | 01       | RTCL00  | 00  | 1                | THI   | A1                  | 06A                | (RTC 0) (MASTER R  |        |
| 13291   |        | XA406     | 14  |        | XA415     | 17  |      |             | 16B  | 9     |        | TICTAA  | 02       | TICTAA  | 00  | 1                | THI   | B4                  | 08B                |                    |        |
| 04795   |        | XA406     | 15  |        |           |     |      |             |      |       |        | RTCTEA  | 02       | RTCTE0  | 01  | 1                | THI   | A6                  | 07B                |                    |        |
| 02697   |        | XA406     | 16  |        |           |     |      |             |      |       |        | GND     | 01       |         |     |                  | THI   |                     | 20B                |                    |        |
| 17341   |        | XA406     | 17  |        | XA428     | 80  |      |             | 16B  | 9     |        | UICTA0  | 01       | TICTAA  | 01  | 1                | THI   | B4                  | 09B                |                    |        |
| 04705   |        | XA406     | 18  |        | XA407     | 10  |      |             | 16B  | 9     |        | RTCC1A  | 20       | RTCC1B  | 01  | 1                | THI   | B3                  | 09A                | RTCC1B BUSS        |        |
| 04708   |        | XA406     | 18  |        |           |     |      |             |      |       |        | RTCC1A  | 01       | RTCC1A  | 00  | 1                | THI   | B3                  | 09A                | RTCC1B BUSS        |        |
| 04704   |        | XA406     | 19  |        | XA406     | 18  |      |             | 16B  | 9     |        | RTCC2A  | 19       | RTCC1B  | 02  | 1                | THI   | B5                  | 10B                | RTCC1B BUSS        |        |
| 04709   |        | XA406     | 19  |        |           |     |      |             |      |       |        | RTCC2A  | 01       | RTCC2A  | 00  | 1                | THI   | B5                  | 10B                | RTCC1B BUSS        |        |
| 15218   |        | XA406     | 20  |        | XA406     | 21  |      |             | 16B  | 9     |        | TRCMR0  | 02       | RTCC1A  | 01  | 1                | THI   | B3                  | 10A                |                    |        |
| 15219   |        | XA406     | 21  |        | XA406     | 23  |      |             | 16B  | 9     |        | TRCMR0  | 03       | RTCC2A  | 01  | 1                | THI   | B5                  | 11B                |                    |        |
| 04803   |        | XA406     | 22  |        |           |     |      |             |      |       |        | RTCT00  | 02       | RTCT0A  | 01  | 1                | THI   | B1                  | 14A                |                    |        |
| 15220   |        | XA406     | 23  |        | XA406     | 27  |      |             | 16B  | 9     |        | TRCMR0  | 04       | RTCC3A  | 01  | 1                | THI   | B2                  | 12A                |                    |        |
| 04800   |        | XA406     | 24  |        | XA443     | 37  |      |             | 16B  | 9     |        | RTCT0A  | 03       | RTCT0A  | 00  | 1                | THI   | B1                  | 13A                | RTC TIMEOUT-A      |        |
| 04701   |        | XA406     | 25  |        | XA405     | 22  |      |             | 16B  | 9     |        | RTCC3A  | 16       | RTCC1B  | 03  | 1                | THI   | B2                  | 11A                |                    |        |
| 04710   |        | XA406     | 25  |        |           |     |      |             |      |       |        | RTCC3A  | 01       | RTCC3A  | 00  | 1                | THI   | B2                  | 11A                | RTCC1B BUSS        |        |
| 04700   |        | XA406     | 26  |        | XA406     | 25  |      |             | 16B  | 9     |        | RTCC4A  | 15       | RTCC1B  | 04  | 1                | THI   | B6                  | 12B                |                    |        |
| 04711   |        | XA406     | 26  |        |           |     |      |             |      |       |        | RTCC4A  | 01       | RTCC4A  | 00  | 1                | THI   | B6                  | 12B                | RTCC1B BUSS        |        |
| 15221   |        | XA406     | 27  |        |           |     |      |             |      |       |        | TRCMR0  | 05       | RTCC4A  | 01  | 1                | THI   | B6                  | 13B                |                    |        |
| 00567   |        | XA406     | 28  |        |           |     |      |             |      |       |        | +5V     | 01       |         |     |                  | THI   |                     |                    |                    |        |
| 04754   |        | XA406     | 29  |        | XA405     | 37  |      |             | 16B  | 9     |        | RTCQ4Q  | 01       | RTCQ4A  | 01  | 1                | THI   | C4                  | 15B                |                    |        |
| 04774   |        | XA406     | 30  |        | XA405     | 14  |      |             | 16B  | 9     |        | RTCQ4A  | 02       | RTCQ4A  | 00  | 1                | THI   | C4                  | 14B                | RTC 4-A            |        |
| 04778   |        | XA406     | 31  |        |           |     |      |             |      |       |        | RTCQ5A  | 03       | RTCQ5A  | 00  | 1                | THI   | C5                  | 16B                | RTC 5-A            |        |
| CONNECTOR (XA406) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |         |          |         |     |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA406  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 271

| RECORD NUMBER | FROM   |           |     | TO | WIRE   |           |     |            | SIGNAL | SEQ NO | EQUATION | TURN | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|----|--------|-----------|-----|------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN |    | PREFIX | CONNECTOR | PIN | U.S. GROUP |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 02698         |        | XA406     | 32  |    |        |           |     |            | GND    | 01     |          |      |        |                  |       |                     | 21B                |                    |        |
| 04756         |        | XA406     | 33  |    | XA405  | 43        |     | 16B        | 9      | 01     | RTCQ5A   | 01   | 1      | THI              | C5    |                     | 17B                |                    |        |
| 04771         |        | XA406     | 34  |    | XA405  | 18        |     | 16B        | 9      | 01     | RTCQ3A   | 01   | 1      | THI              | C3    |                     | 15A                | RTC 3-A            |        |
| 04759         |        | XA406     | 35  |    |        |           |     |            |        | 02     | RTCQ6A   | 01   | 1      | THI              | C2    |                     | 18A                |                    |        |
| 04752         |        | XA406     | 36  |    | XA405  | 19        |     | 16B        | 9      | 01     | RTCQ3A   | 01   | 1      | THI              | C3    |                     | 16A                |                    |        |
| 04779         |        | XA406     | 37  |    | XA405  | 46        |     | 16B        | 9      | 01     | RTCQ6A   | 00   | 1      | THI              | C2    |                     | 17A                | RTC 6-A            |        |
| 04748         |        | XA406     | 38  |    | XA405  | 25        |     | 16B        | 9      | 01     | RTCQ2A   | 01   | 1      | THI              | C1    |                     | 20A                |                    |        |
| 04761         |        | XA406     | 39  |    | XA405  | 49        |     | 16B        | 9      | 01     | RTCQ7A   | 01   | 1      | THI              | C6    |                     | 19B                |                    |        |
| 04769         |        | XA406     | 40  |    | XA442  | 72        |     | 16B        | 9      | 03     | RTCQ2A   | 00   | 1      | THI              | C1    |                     | 19A                | RTC 2-A            |        |
| 15723         |        | XA406     | 41  |    |        |           |     |            |        | 06     | XS00AA   | 01   | 1      | THI              | D4    |                     | 23B                |                    |        |
| 04784         |        | XA406     | 42  |    |        |           |     |            |        | 03     | RTCQ7A   | 00   | 1      | THI              | C6    |                     | 18B                | RTC 7-A            |        |
| 07930         |        | XA406     | 43  |    | XA444  | 18        |     | 16B        | 9      | 01     | TD11AA   | 00   | 1      | THI              | D5    |                     | 24B                |                    | C10    |
| 02699         |        | XA406     | 44  |    |        |           |     |            |        | 01     | GND      |      |        |                  |       |                     | 27A                |                    |        |
| 05847         |        | XA406     | 45  |    | XA109  | 40        |     | 16B        | 9      | 03     | TD11AA   | 01   | 1      | THI              | D5    |                     | 25B                |                    | C10    |
| 20016         |        | XA406     | 46  |    |        |           |     |            |        | 09     | XS00AA   | 00   | 1      | THI              | D4    |                     | 22B                |                    |        |
| 19506         |        | XA406     | 47  |    | XA430  | 72        |     | 16B        | 9      | 01     | XHIRCO   | 01   | 1      | THI              | D2    |                     | 24A                |                    | B05    |
| 04789         |        | XA406     | 48  |    | XA405  | 34        |     | 16B        | 9      | 02     | RTCQ9A   | 00   | 1      | THI              | D3    |                     | 21A                | RTC 9-A            |        |
| 19510         |        | XA406     | 49  |    |        |           |     |            |        | 02     | XHIRCO   | 00   | 1      | THI              | D2    |                     | 23A                |                    |        |
| 04765         |        | XA406     | 50  |    | XA405  | 31        |     | 16B        | 9      | 01     | RTCQ9A   | 01   | 1      | THI              | D3    |                     | 22A                |                    |        |
| 09942         |        | XA406     | 51  |    | XA414  | 04        |     | 16B        | 9      | 01     | TCS0AA   | 01   | 1      | THI              | D6    |                     | 27B                |                    |        |
| 04764         |        | XA406     | 52  |    |        |           |     |            |        | 02     | RTCQ8A   | 01   | 1      | THI              | D1    |                     | 26A                |                    |        |
| 09946         |        | XA406     | 53  |    | XA420  | 73        |     | 16B        | 9      | 01     | TCS0AA   | 00   | 1      | THI              | D6    |                     | 26B                |                    |        |
| 04787         |        | XA406     | 54  |    |        |           |     |            |        | 03     | RTCQ8A   | 00   | 1      | THI              | D1    |                     | 25A                | RTC 8-A            |        |
| 04722         |        | XA406     | 55  |    |        |           |     |            |        | 02     | RTCL1A   | 01   | 1      | THI              | E4    |                     | 29B                |                    |        |
| 04724         |        | XA406     | 56  |    |        |           |     |            |        | 02     | RTCL10   | 00   | 1      | THI              | E4    |                     | 28B                | RTC 1-0            |        |
| 04728         |        | XA406     | 57  |    |        |           |     |            |        | 02     | RTCL20   | 00   | 1      | THI              | E5    |                     | 30B                | RTC 2-0            |        |
| 02700         |        | XA406     | 58  |    |        |           |     |            |        | 01     | GND      |      |        |                  |       |                     | 40A                |                    |        |
| 04726         |        | XA406     | 59  |    |        |           |     |            |        | 02     | RTCL2A   | 01   | 1      | THI              | E5    |                     | 31B                |                    |        |
| 04677         |        | XA406     | 60  |    | XA407  | 04        |     | 16B        | 9      | 04     | RINS00   | 00   | 1      | THI              | E3    |                     | 28A                | (INTERROGATE)(CH   |        |
| 10839         |        | XA406     | 61  |    | XA109  | 31        |     | 16B        | 9      | 03     | TD13AA   | 01   | 1      | THI              | E2    |                     | 31A                |                    |        |
| 04672         |        | XA406     | 62  |    | XA407  | 60        |     | 16B        | 9      | 01     | RINS0A   | 01   | 1      | THI              | E3    |                     | 29A                |                    |        |
| 1083C         |        | XA406     | 63  |    | XA444  | 20        |     | 16B        | 9      | 01     | TD13AA   | 00   | 1      | THI              | E2    |                     | 30A                |                    |        |
| 04662         |        | XA406     | 64  |    | XA407  | 66        |     | 16B        | 9      | 01     | RENS0A   | 01   | 1      | THI              | E1    |                     | 33A                |                    |        |
| 10866         |        | XA406     | 65  |    | XA109  | 37        |     | 16B        | 9      | 03     | TD14AA   | 01   | 1      | THI              | E6    |                     | 33B                |                    |        |
| 04669         |        | XA406     | 66  |    |        |           |     |            |        | 06     | RENS00   | 00   | 1      | THI              | E1    |                     | 32A                | (ENABLE)(CH SEL    |        |
| 02701         |        | XA406     | 67  |    |        |           |     |            |        | 01     | GND      |      |        |                  |       |                     |                    |                    |        |
| 10857         |        | XA406     | 68  |    | XA444  | 22        |     | 16B        | 9      | 01     | TD14AA   | 01   | 1      | THI              | E6    |                     | 32B                |                    |        |
| 10893         |        | XA406     | 69  |    | XA109  | 49        |     | 16B        | 9      | 03     | TD15AA   | 01   | 1      | THI              | F3    |                     | 35B                |                    |        |
| 10884         |        | XA406     | 70  |    | XA444  | 24        |     | 16B        | 9      | 01     | TD15AA   | 00   | 1      | THI              | F3    |                     | 34B                |                    |        |
| 07931         |        | XA406     | 71  |    |        |           |     |            |        | 01     | SPO      | 00   | 1      | THI              | F2    |                     | 36B                |                    |        |
| 10911         |        | XA406     | 72  |    | XA444  | 25        |     | 16B        | 9      | 01     | TD16AA   | 00   | 1      | THI              | F4    |                     | 34A                |                    |        |
| 05843         |        | XA406     | 73  |    | XA405  | 80        |     | 16B        | 5      | 27     | SPI032   | 01   | 1      | THI              | F2    |                     | 37B                |                    |        |
| 10920         |        | XA406     | 74  |    | XA109  | 61        |     | 16B        | 9      | 03     | TD16AA   | 01   | 1      | THI              | F4    |                     | 35A                |                    |        |
| 10947         |        | XA406     | 75  |    | XA208  | 13        |     | 16B        | 9      | 03     | TD17AA   | 01   | 1      | THI              | F6    |                     | 39A                |                    |        |
| 20511         |        | XA406     | 76  |    | XA331  | 55        |     | 16B        | 9      | 005    | TMTCAA   | 01   | 1      | THI              | F5    |                     | 37A                |                    |        |
| 10938         |        | XA406     | 77  |    | XA444  | 26        |     | 16B        | 9      | 01     | TD17AA   | 00   | 1      | THI              | F6    |                     | 38A                |                    |        |
| 14347         |        | XA406     | 78  |    |        |           |     |            |        | 02     | TMTCCO   | 00   | 1      | THI              | F5    |                     | 36A                | OSC ON OFF CONTR   |        |
| 13386         |        | XA406     | 79  |    | XA410  | 38        |     | 16B        | 9      | 01     | TINTAD   | 01   | 1      | THI              | F1    |                     | 39B                |                    |        |
| 13376         |        | XA406     | 80  |    |        |           |     |            |        | 02     | TINGAO   | 00   | 1      | THI              | F1    |                     | 38B                |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA407  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 272

| RECORD NUMBER | FROM   |           |                                 |         | TO     |           |     |         | WIRE        |      |       |       | SIGNAL | SEC NO | EQUATION | TERM | FACTOR | CKT CR CHIP TYPE | GROUP | LOAD OR FLOWLINE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | COC NO |
|---------------|--------|-----------|---------------------------------|---------|--------|-----------|-----|---------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE NO | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                  |                    |                    |        |
| 04624         |        | XA407     | 01                              |         | XA424  | 50        |     |         |             |      |       |       | RD15AA | 01     | RD15AA   | 03   | 1      | TQ2              | A2    |                  | 02B                | RTC 2 ADDRESS TO   |        |
| 02702         |        | XA407     | 02                              |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        |                  | TQ2   |                  |                    | 01A                |        |
| 11863         |        | XA407     | 03                              |         |        |           |     |         |             |      |       |       | TD16BQ | 07     | RD316A   | 01   | 1      | TQ2              | A3    |                  | 02A                |                    | 006    |
| 04678         |        | XA407     | 04                              |         |        |           |     |         |             |      |       |       | RINS00 | 05     | RD15AA   | 01   | 1      | TQ2              | A2    |                  | 04A                |                    |        |
| 04834         |        | XA407     | 05                              |         | XA405  | 13        |     |         |             |      |       |       | RTRQ2Q | 02     | RD15AA   | 01   | 2      | TQ2              | A2    |                  | 03B                |                    |        |
| 04715         |        | XA407     | 06                              |         | XA446  | 78        |     |         |             |      |       |       | RTCIOS | 01     | RTCIOS   | 00   | 1      | TQ2              | A1    |                  | 05A                | RTC 3 INHIBIT-SE   |        |
| 04611         |        | XA407     | 07                              |         | XA407  | 11        |     |         |             |      |       |       | RDEV30 | 01     | RD316A   | 01   | 2      | TQ2              | A3    |                  | 03A                |                    |        |
| 04714         |        | XA407     | 08                              |         |        |           |     |         |             |      |       |       | RTCIOR | 03     | RTCIOS   | 01   | 1      | TQ2              | A1    |                  | 06A                |                    |        |
| 04627         |        | XA407     | 09                              |         |        |           |     |         |             |      |       |       | RD316A | 02     | RD316A   | 03   | 1      | TQ2              | A3    |                  | 04B                | (DEV 03)(DATA BI   |        |
| 04706         |        | XA407     | 10                              |         | XA405  | 04        |     |         |             |      |       |       | RTCLB  | 21     | RTCIOS   | 01   | 2      | TQ2              | A1    |                  | 07A                | MASTER RESET - F   |        |
| 04612         |        | XA407     | 11                              |         | XA407  | 17        |     |         |             |      |       |       | RDEV30 | 02     | RD317A   | 01   | 1      | TQ2              | A4    |                  | 05B                |                    |        |
| 00568         |        | XA407     | 12                              |         |        |           |     |         |             |      |       |       | +5V    | 01     |          |      |        |                  | TQ2   |                  |                    |                    |        |
| 11903         |        | XA407     | 13                              |         | XA211  | 31        |     |         |             |      |       |       | TD17C0 | 02     | RD317A   | 01   | 2      | TQ2              | A4    |                  | 06B                |                    |        |
| 04632         |        | XA407     | 14                              |         | XA445  | 66        |     |         |             |      |       |       | RD320A | 01     | RD320A   | 00   | 1      | TQ2              | B2    |                  | 09A                | (DEV 03)(DATA BI   |        |
| 04628         |        | XA407     | 15                              |         | XA446  | 55        |     |         |             |      |       |       | RD317A | 01     | RD317A   | 00   | 1      | TQ2              | A4    |                  | 07B                | (DEV 03)(DATA BI   |        |
| 02703         |        | XA407     | 16                              |         |        |           |     |         |             |      |       |       | GND    | 03     |          |      |        |                  | TQ2   |                  | 01B                |                    |        |
| 04613         |        | XA407     | 17                              |         | XA407  | 20        |     |         |             |      |       |       | RDEV30 | 03     | RD321A   | 01   | 1      | TQ2              | B3    |                  | 08B                |                    |        |
| 12004         |        | XA407     | 18                              |         |        |           |     |         |             |      |       |       | TD20BQ | 07     | RD320A   | 01   | 1      | TQ2              | B2    |                  | 10A                |                    |        |
| 12039         |        | XA407     | 19                              |         |        |           |     |         |             |      |       |       | TD21BQ | 07     | RD321A   | 01   | 2      | TQ2              | B3    |                  | 09B                |                    |        |
| 04614         |        | XA407     | 20                              |         | XA407  | 24        |     |         |             |      |       |       | RDEV30 | 04     | RD320A   | 01   | 2      | TQ2              | B2    |                  | 11A                |                    |        |
| 04635         |        | XA407     | 21                              |         |        |           |     |         |             |      |       |       | RD321A | 02     | RD321A   | 00   | 1      | TQ2              | B3    |                  | 10B                | (DEV 03)(DATA BI   |        |
| 04631         |        | XA407     | 22                              |         |        |           |     |         |             |      |       |       | RD318A | 02     | RD318A   | 00   | 1      | TQ2              | B1    |                  | 12A                | (DEV 03)(DATA BI   |        |
| 04616         |        | XA407     | 23                              |         | XA439  | 60        |     |         |             |      |       |       | RDEV30 | 06     | RD322A   | 01   | 1      | TQ2              | B4    |                  | 11B                |                    |        |
| 04615         |        | XA407     | 24                              |         | XA407  | 23        |     |         |             |      |       |       | RDEV30 | 05     | RD318A   | 01   | 1      | TQ2              | B1    |                  | 13A                |                    |        |
| 12075         |        | XA407     | 25                              |         |        |           |     |         |             |      |       |       | TD22BQ | 07     | RD322A   | 01   | 2      | TQ2              | B4    |                  | 12B                |                    |        |
| 11939         |        | XA407     | 26                              |         | XA416  | 54        |     |         |             |      |       |       | TD18C0 | 01     | RD318A   | 01   | 2      | TQ2              | B1    |                  | 14A                |                    |        |
| 04636         |        | XA407     | 27                              |         | XA445  | 61        |     |         |             |      |       |       | RD322A | 01     | RD322A   | 00   | 1      | TQ2              | B4    |                  | 13B                | (DEV 03)(DATA BI   |        |
| 00569         |        | XA407     | 28                              |         |        |           |     |         |             |      |       |       | +5V    | 01     |          |      |        |                  | TQ2   |                  |                    |                    |        |
| 05849         |        | XA407     | 29                              |         | XA407  | 34        |     |         |             |      |       |       | SPI032 | 33     | TMDCB0   | 01   | 1      | TQ2              | C3    |                  | 14B                |                    |        |
| 14081         |        | XA407     | 30                              |         |        |           |     |         |             |      |       |       | TMDCA0 | 12     | TMDCA0   | 00   | 1      | TQ2              | C2    |                  | 15A                | MEMORY ADD ACKNO   |        |
| 14067         |        | XA407     | 31                              |         | XA407  | 35        |     |         |             |      |       |       | TMDCAA | 02     | TMDCB0   | 01   | 2      | TQ2              | C3    |                  | 15B                |                    |        |
| 02704         |        | XA407     | 32                              |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        |                  | TQ2   |                  | 20B                |                    |        |
| 14091         |        | XA407     | 33                              |         |        |           |     |         |             |      |       |       | TMDCB0 | 10     | TMDCB0   | 00   | 1      | TQ2              | C3    |                  | 16B                | MEM ADD ACK.SYNC   |        |
| 05850         |        | XA407     | 34                              |         | XA407  | 50        |     |         |             |      |       |       | SPI032 | 34     | TMDCA0   | 01   | 1      | TQ2              | C2    |                  | 16A                |                    |        |
| 14068         |        | XA407     | 35                              |         | XA407  | 36        |     |         |             |      |       |       | TMDCAA | 03     | TMDCC0   | 01   | 1      | TQ2              | C4    |                  | 17B                |                    |        |
| 14069         |        | XA407     | 36                              |         |        |           |     |         |             |      |       |       | TMDCAA | 04     | TMDCA0   | 01   | 2      | TQ2              | C2    |                  | 17A                |                    |        |
| 05848         |        | XA407     | 37                              |         | XA407  | 29        |     |         |             |      |       |       | SPI032 | 32     | TMDCC0   | 01   | 2      | TQ2              | C4    |                  | 18B                |                    |        |
| 11075         |        | XA407     | 38                              |         | XA511  | 43        |     |         |             |      |       |       | TDL7A0 | 02     | TDL7A0   | 00   | 1      | TQ2              | C1    |                  | 18A                | OR'D DATA LINE 7   |        |
| 14105         |        | XA407     | 39                              |         |        |           |     |         |             |      |       |       | TMDCC0 | 14     | TMDCC0   | 03   | 1      | TQ2              | C4    |                  | 19B                | MEM ADD ACK.SYNC   |        |
| 11085         |        | XA407     | 40                              |         |        |           |     |         |             |      |       |       | TDL73A | 02     | TDL7A0   | 01   | 1      | TQ2              | C1    |                  | 19A                |                    |        |
| 11050         |        | XA407     | 41                              |         | XA511  | 39        |     |         |             |      |       |       | TDL5A0 | 02     | REN2A    | 01   | 1      | TQ2              | D3    |                  | 22B                |                    |        |
| 11083         |        | XA407     | 42                              |         |        |           |     |         |             |      |       |       | TDL71A | 02     | TDL7A0   | 01   | 2      | TQ2              | C1    |                  | 20A                |                    |        |
| 04666         |        | XA407     | 43                              |         | XA407  | 49        |     |         |             |      |       |       | RENS00 | 03     | REN2A    | 01   | 2      | TQ2              | D3    |                  | 23B                |                    |        |
| 02705         |        | XA407     | 44                              |         |        |           |     |         |             |      |       |       | GND    | 01     |          |      |        |                  | TQ2   |                  | 21B                |                    |        |
| 04658         |        | XA407     | 45                              |         | XA443  | 70        |     |         |             |      |       |       | REN2A  | 01     | REN2A    | 00   | 1      | TQ2              | D3    |                  | 24B                | (ENABLE)(CH SEL    |        |
| 07932         |        | XA407     | 46                              |         |        |           |     |         |             |      |       |       | SPO    | 01     |          | 00   | 1      | TQ2              | D2    |                  | 21A                |                    |        |
| 11017         |        | XA407     | 47                              |         | XA417  | 08        |     |         |             |      |       |       | TDL2A0 | 09     | RENSWA   | 01   | 1      | TQ2              | D4    |                  | 25B                |                    |        |
| 05779         |        | XA407     | 48                              |         |        |           |     |         |             |      |       |       | SPI030 | 37     |          | 01   | 1      | TQ2              | D2    |                  | 22A                |                    |        |
| 04667         |        | XA407     | 49                              |         | XA407  | 54        |     |         |             |      |       |       | RENS00 | 04     | RENSWA   | 01   | 2      | TQ2              | D4    |                  | 26B                |                    |        |
| 05851         |        | XA407     | 50                              |         | XA414  | 77        |     |         |             |      |       |       | SPI032 | 35     |          | 01   | 2      | TQ2              | D2    |                  | 23A                |                    | E01    |
| CONNECTOR     |        | XA407     | CONTINUED ON THE NEXT PAGE **** |         |        |           |     |         |             |      |       |       |        |        |          |      |        |                  |       |                  |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA407  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 273

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SFC INST NO | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|-------------|---------|--------|----------|------|--------|------------------|-------|---------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR |             |         |        |          |      |        |                  |       |               |                    |                    |        |
| 04661   |        | XA407     | 51  |        |           |     |       |             |      |       |             | RENSWA  | 01     | RENSWA   | 00   | 1      | TQ2              | D4    |               | 27B                | (ENABLE)(CH SEL    |        |
| 04654   |        | XA407     | 52  |        | XA443     | 41  |       |             | 16B  | 9     |             | RENROA  | 02     | RENROA   | 00   | 1      | TQ2              | D1    |               | 24A                | (ENABLE)(CH SEL    |        |
| 04739   |        | XA407     | 53  |        | XA445     | 47  |       |             | 16B  | 9     |             | RTCNIP  | 02     | RTCLIA   | 01   | 1      | TQ2              | E3    |               | 28B                |                    |        |
| 04668   |        | XA407     | 54  |        | XA406     | 66  |       |             | 16B  | 9     |             | RENS00  | 05     | RENROA   | 01   | 1      | TQ2              | D1    |               | 25A                |                    |        |
| 04734   |        | XA407     | 55  |        | XA407     | 59  |       |             | 16B  | 9     |             | RTCNOQ  | 01     | RTCLIA   | 01   | 2      | TQ2              | E3    |               | 29B                |                    |        |
| 11024   |        | XA407     | 56  |        | XA510     | 43  |       |             | 16B  | 9     |             | TDL3A0  | 02     | RENROA   | 01   | 2      | TQ2              | D1    |               | 26A                |                    |        |
| 04721   |        | XA407     | 57  |        | XA406     | 55  |       |             | 16B  | 9     |             | RTCLIA  | 01     | RTCLIA   | 00   | 1      | TQ2              | E3    |               | 30B                | RTC 1-A            |        |
| 02706   |        | XA407     | 58  |        |           |     |       |             |      |       |             | GND     | 01     |          |      |        | TQ2              |       |               | 27A                |                    |        |
| 04735   |        | XA407     | 59  |        | XA442     | 74  |       |             | 16B  | 9     |             | RTCNOQ  | 02     | RTCL2A   | 01   | 1      | TQ2              | E4    |               | 31B                |                    |        |
| 04673   |        | XA407     | 60  |        |           |     |       |             |      |       |             | RINSOA  | 02     | RINSOA   | 00   | 1      | TQ2              | E2    |               | 28A                | (INTERROGATE)(CH   |        |
| 04745   |        | XA407     | 61  |        | XA442     | 71  |       |             | 16B  | 9     |             | RTCNIQ  | 02     | RTCL2A   | 01   | 2      | TQ2              | E4    |               | 32B                |                    |        |
| 09888   |        | XA407     | 62  |        | XA439     | 30  |       |             | 16B  | 9     |             | TCSCCO  | 08     | RINSOA   | 01   | 1      | TQ2              | E2    |               | 29A                |                    |        |
| 04725   |        | XA407     | 63  |        | XA406     | 59  |       |             | 16B  | 9     |             | RTCL2A  | 01     | RTCL2A   | 00   | 1      | TQ2              | E4    |               | 33B                | RTC 2-A            |        |
| 13375   |        | XA407     | 64  |        | XA406     | 80  |       |             | 16B  | 9     |             | TINGAO  | 01     | RINSOA   | 01   | 2      | TQ2              | E2    |               | 30A                |                    |        |
| 19914   |        | XA407     | 65  |        |           |     |       |             |      |       |             | XMROOR  | 09     | XMRIWA   | 01   | 1      | TQ2              | F3    |               | 34B                |                    |        |
| 04663   |        | XA407     | 66  |        |           |     |       |             |      |       |             | RENSOA  | 02     | RENSOA   | 00   | 1      | TQ2              | E1    |               | 31A                | (ENABLE)(CH SEL    |        |
| 02707   |        | XA407     | 67  |        |           |     |       |             |      |       |             | GND     | 01     |          |      |        | TQ2              |       |               | 40A                |                    |        |
| 12531   |        | XA407     | 68  |        | XA415     | 10  |       |             | 16B  | 9     |             | TEN8B0  | 01     | RENSOA   | 01   | 1      | TQ2              | E1    |               | 32A                |                    |        |
| 19975   |        | XA407     | 69  |        | XA437     | 49  |       |             | 16B  | 9     |             | XMRIWA  | 01     | XMRIWA   | 00   | 1      | TQ2              | F3    |               | 35A                |                    |        |
| 09887   |        | XA407     | 70  |        | XA407     | 62  |       |             | 16B  | 9     |             | TCSCCO  | 07     | RENSOA   | 01   | 2      | TQ2              | E1    |               | 33A                |                    |        |
| 03712   |        | XA407     | 71  |        | XA301     | 61  |       |             | 16B  | 9     |             | JDB30B4 | 02     | TCB300   | 01   | 1      | TQ2              | F2    |               | 36A                |                    |        |
| 09592   |        | XA407     | 72  |        |           |     |       |             |      |       |             | TCB300  | 03     | TCB300   | 00   | 1      | TQ2              | F2    |               | 34A                | BIT 30 CPU BUS R   |        |
| 09242   |        | XA407     | 73  |        | XA423     | 51  |       |             | 16B  | 9     |             | TBS30A  | 01     | TCB300   | 01   | 2      | TQ2              | F2    |               | 36B                |                    |        |
| 19925   |        | XA407     | 74  |        | XA431     | 34  |       |             | 16B  | 9     |             | XMRO1S  | 01     | XMRIWA   | 01   | 2      | TQ2              | F3    |               | 35B                |                    |        |
| 09588   |        | XA407     | 75  |        | XA123     | 73  |       |             | 16B  | 9     |             | TCB290  | 02     | TCB290   | 00   | 1      | TQ2              | F1    |               | 37B                | BIT 29 CPU BUS R   |        |
| 04136   |        | XA407     | 76  |        | XA307     | 04  |       |             | 16B  | 9     |             | KMR03R  | 01     | KMR03S   | 01   | 1      | TQ2              | F4    |               | 37A                |                    |        |
| 03706   |        | XA407     | 77  |        | XA301     | 59  |       |             | 16B  | 9     |             | JDB29B4 | 02     | TCB290   | 01   | 1      | TQ2              | F1    |               | 38B                | CPU BUSS BIT 29    |        |
| 04455   |        | XA407     | 78  |        | XA212     | 21  |       |             | 16B  | 9     |             | K0103A  | 01     | KMR03S   | 01   | 2      | TQ2              | F4    |               | 38A                |                    |        |
| 09241   |        | XA407     | 79  |        |           |     |       |             |      |       |             | TBS29A  | 02     | TCB290   | 01   | 2      | TQ2              | F1    |               | 39B                |                    |        |
| 04140   |        | XA407     | 80  |        |           |     |       |             |      |       |             | KMR03S  | 03     | KMR03S   | 00   | 1      | TQ2              | F4    |               | 39A                | MONITOR REG BIT    |        |
| 01362   |        | XA408     | 01  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 02708   |        | XA408     | 02  |        |           |     |       |             |      |       |             | GND     | 01     |          |      |        |                  |       |               |                    |                    | A01    |
| 04606   |        | XA408     | 03  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 04605   |        | XA408     | 04  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 14215   |        | XA408     | 05  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 01363   |        | XA408     | 06  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 14255   |        | XA408     | 07  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 14267   |        | XA408     | 08  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 14279   |        | XA408     | 09  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 20190   |        | XA408     | 10  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 01364   |        | XA408     | 11  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 00570   |        | XA408     | 12  |        |           |     |       |             |      |       |             | +5V     | 01     |          |      |        |                  |       |               |                    |                    | A01    |
| 00073   |        | XA408     | 13  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 00074   |        | XA408     | 14  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 03876   |        | XA408     | 15  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 03877   |        | XA408     | 16  |        |           |     |       |             |      |       |             | GND     | 01     |          |      |        |                  |       |               |                    |                    | A01    |
| 14216   |        | XA408     | 17  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| 01365   |        | XA408     | 18  |        |           |     |       |             |      |       |             | SPP     | 01     |          |      |        |                  |       |               |                    |                    |        |
| CONNECTOR (XA408) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |             |         |        |          |      |        |                  |       |               |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA408  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 274

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SFQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |               |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|---------------|
|   | PREFIX | CONNECTOR | PIN | TYPE | PREFIX | CONNECTOR | PIN | TYPE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        | IPC INST DISC |
| 14256   | XA408  | 19        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 14266   | XA408  | 20        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04607   | XA408  | 21        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04608   | XA408  | 22        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 14217   | XA408  | 23        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 14278   | XA408  | 24        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 14257   | XA408  | 25        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 20191   | XA408  | 26        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 01366   | XA408  | 27        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 00571   | XA408  | 28        |     |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 14265   | XA408  | 29        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 00075   | XA408  | 30        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 01367   | XA408  | 31        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02709   | XA408  | 32        |     |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 04845   | XA408  | 33        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04846   | XA408  | 34        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 07755   | XA408  | 35        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 14277   | XA408  | 36        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 07756   | XA408  | 37        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 20192   | XA408  | 38        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 07757   | XA408  | 39        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 14164   | XA408  | 40        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04853   | XA408  | 41        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 07758   | XA408  | 42        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 03878   | XA408  | 43        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 03875   | XA408  | 44        |     |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 04854   | XA408  | 45        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 07759   | XA408  | 46        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04855   | XA408  | 47        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04856   | XA408  | 48        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04847   | XA408  | 49        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04848   | XA408  | 50        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 07760   | XA408  | 51        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04857   | XA408  | 52        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 07761   | XA408  | 53        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 01368   | XA408  | 54        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 07762   | XA408  | 55        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 07763   | XA408  | 56        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 01369   | XA408  | 57        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02710   | XA408  | 58        |     |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 04849   | XA408  | 59        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04850   | XA408  | 60        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04858   | XA408  | 61        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 07764   | XA408  | 62        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04859   | XA408  | 63        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 01370   | XA408  | 64        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04860   | XA408  | 65        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 04861   | XA408  | 66        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| 02711   | XA408  | 67        |     |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01           |
| 01371   | XA408  | 68        |     |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |               |
| CONNECTOR (XA408) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |               |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA408  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 275

| RECORD NUMBER                                   | FROM   |           |     | TO | WIRE   |           |     |       |             |      |       |       |          |      | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |  |
|---|--------|-----------|-----|----|--------|-----------|-----|-------|-------------|------|-------|-------|----------|------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|--|
|   | PREFIX | CONNECTOR | PIN |    | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR | IDENT | PAC INST | MISC |        |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 04851   |        | XA408     | 69  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 04852   |        | XA408     | 7C  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07765   |        | XA408     | 71  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 04862   |        | XA408     | 72  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07766   |        | XA408     | 73  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 01372   |        | XA408     | 74  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07767   |        | XA408     | 75  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07768   |        | XA408     | 76  |    |        |           |     |       |             |      |       |       |          | SPP  | 02     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 01373   |        | XA408     | 77  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 20541   |        | XA408     | 78  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 00076   |        | XA408     | 79  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 00077   |        | XA408     | 80  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06754   |        | XA409     | 01  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02712   |        | XA409     | 02  |    |        |           |     |       |             |      |       |       |          | GND  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06755   |        | XA409     | 03  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06756   |        | XA409     | 04  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06757   |        | XA409     | 05  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06758   |        | XA409     | 06  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06759   |        | XA409     | 07  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06760   |        | XA409     | 08  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06761   |        | XA409     | 09  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06762   |        | XA409     | 10  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06763   |        | XA409     | 11  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 00572   |        | XA409     | 12  |    |        |           |     |       |             |      |       |       |          | +5V  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06764   |        | XA409     | 13  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06765   |        | XA409     | 14  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06766   |        | XA409     | 15  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02713   |        | XA409     | 16  |    |        |           |     |       |             |      |       |       |          | GND  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06767   |        | XA409     | 17  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06768   |        | XA409     | 18  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06769   |        | XA409     | 19  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06770   |        | XA409     | 20  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06771   |        | XA409     | 21  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06772   |        | XA409     | 22  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06773   |        | XA409     | 23  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06774   |        | XA409     | 24  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06775   |        | XA409     | 25  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06776   |        | XA409     | 26  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06777   |        | XA409     | 27  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 00573   |        | XA409     | 28  |    |        |           |     |       |             |      |       |       |          | +5V  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06778   |        | XA409     | 29  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06779   |        | XA409     | 30  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06780   |        | XA409     | 31  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02714   |        | XA409     | 32  |    |        |           |     |       |             |      |       |       |          | GND  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06781   |        | XA409     | 33  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06782   |        | XA409     | 34  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06783   |        | XA409     | 35  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 06784   |        | XA409     | 36  |    |        |           |     |       |             |      |       |       |          | SPP  | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| CONNECTOR XA409 CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |       |             |      |       |       |          |      |        |        |          |      |        |                  |       |                     |                    |                    |        |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA409  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 276

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|------|--------|------------------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | NO   | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |                     |                    |                    |        |
| 06785   |        | XA409     | 37  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06786   |        | XA409     | 38  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06787   |        | XA409     | 39  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06788   |        | XA409     | 40  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06789   |        | XA409     | 41  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06790   |        | XA409     | 42  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06791   |        | XA409     | 43  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 02715   |        | XA409     | 44  |        |           |     |      |             |      |       |        | GND    | 01       |      |        |                  |                     |                    |                    |        |
| 06792   |        | XA409     | 45  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06793   |        | XA409     | 46  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06794   |        | XA409     | 47  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06795   |        | XA409     | 48  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06796   |        | XA409     | 49  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06797   |        | XA409     | 50  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06798   |        | XA409     | 51  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06799   |        | XA409     | 52  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06800   |        | XA409     | 53  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06801   |        | XA409     | 54  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06802   |        | XA409     | 55  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06803   |        | XA409     | 56  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06804   |        | XA409     | 57  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 02716   |        | XA409     | 58  |        |           |     |      |             |      |       |        | GND    | 01       |      |        |                  |                     |                    |                    |        |
| 06805   |        | XA409     | 59  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06806   |        | XA409     | 60  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06807   |        | XA409     | 61  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06808   |        | XA409     | 62  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06809   |        | XA409     | 63  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06810   |        | XA409     | 64  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06811   |        | XA409     | 65  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06812   |        | XA409     | 66  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 02717   |        | XA409     | 67  |        |           |     |      |             |      |       |        | GND    | 01       |      |        |                  |                     |                    |                    |        |
| 06813   |        | XA409     | 68  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06814   |        | XA409     | 69  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06815   |        | XA409     | 70  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06816   |        | XA409     | 71  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06817   |        | XA409     | 72  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06818   |        | XA409     | 73  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06819   |        | XA409     | 74  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06820   |        | XA409     | 75  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06821   |        | XA409     | 76  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06822   |        | XA409     | 77  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06823   |        | XA409     | 78  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06824   |        | XA409     | 79  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 06825   |        | XA409     | 80  |        |           |     |      |             |      |       |        | SPP    | 01       |      |        |                  |                     |                    |                    |        |
| 01374   |        | XA410     | 01  |        |           |     |      |             |      |       |        | DNW    | 01       |      |        |                  |                     |                    |                    |        |
| 21252   |        | XA410     | 02  |        |           |     |      |             |      |       |        | GND    | 01       |      |        | RR4              |                     |                    |                    |        |
| 21360   |        | XA410     | 02  |        |           |     |      |             |      |       |        | G41002 | 06       |      |        | RR4              |                     |                    |                    |        |
| 00078   |        | XA410     | 03  |        | XA411     | 03  |      |             | 168  | 9     |        | +05RES | 435      |      |        | RR4              | AP                  |                    |                    | 805    |
| CONNECTOR (XA410) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |        |          |      |        |                  |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA410  
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| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO   | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|----------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI-GROUP | CODE | COLOR |        |          |          |      |        |                  |       |                     |                    |                    |        |
| 00079   |        | XA410     | 04  |        | XA410     | 03  |      |             | 16B  | 9     |        | +05RES   | 430      |      |        | RR4              | AP    |                     |                    |                    |        |
| 09954   |        | XA410     | 05  |        |           |     |      |             |      |       |        | TCS1ADX4 | 02       |      |        | RR4              | A3    |                     |                    |                    |        |
| 03457   |        | XA410     | 06  |        | XA410     | 02  |      |             | 16B  | 9     |        | G41002   | 05       |      |        | RR4              | AC    |                     |                    |                    | B05    |
| 09966   |        | XA410     | 07  |        |           |     |      |             |      |       |        | TCS2ADX4 | 02       |      |        | RR4              | A4    |                     |                    |                    |        |
| 09892   |        | XA410     | 08  |        | XA513     | 13  |      |             | 16B  | 9     |        | SPI301   | 06       |      |        | RR4              | A1    |                     |                    |                    | C13    |
| 09978   |        | XA410     | 09  |        |           |     |      |             |      |       |        | TCS3ADX4 | 02       |      |        | RR4              | A5    |                     |                    |                    |        |
| 09944   |        | XA410     | 10  |        | XA420     | 78  |      | AD          | 1EB  | 9     |        | TCS0ADX4 | 01       |      |        | RR4              | A2    |                     |                    |                    |        |
| 01375   |        | XA410     | 11  |        |           |     |      |             |      |       |        | DNW      | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 00574   |        | XA410     | 12  |        |           |     |      |             |      |       |        | +5V      | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 00080   |        | XA410     | 13  |        | XA410     | 04  |      |             | 16B  | 9     |        | +05RES   | 425      |      |        | RR4              | BP    |                     |                    |                    |        |
| 00081   |        | XA410     | 14  |        | XA410     | 13  |      |             | 16B  | 9     |        | +05RES   | 420      |      |        | RR4              | BP    |                     |                    |                    |        |
| 03880   |        | XA410     | 15  |        |           |     |      |             |      |       |        | DNW      | 01       |      |        | RR4              |       |                     |                    | KEYWAY             | C04    |
| 03881   |        | XA410     | 16  |        |           |     |      |             |      |       |        | DNW      | 01       |      |        | RR4              |       |                     |                    | KEYWAY             | C04    |
| 10025   |        | XA410     | 17  |        |           |     |      |             |      |       |        | TCS7ADX4 | 02       |      |        | RR4              | B4    |                     |                    |                    |        |
| 03456   |        | XA410     | 18  |        | XA410     | 06  |      |             | 16B  | 9     |        | G41002   | 04       |      |        | RR4              | BC    |                     |                    |                    | B05    |
| 09736   |        | XA410     | 19  |        | XA420     | 61  |      |             | 16B  | 9     |        | TCMDADX4 | 02       |      |        | RR4              | B5    |                     |                    |                    |        |
| 09990   |        | XA410     | 20  |        | XA417     | 78  |      |             | 16B  | 9     |        | TCS4ADX4 | 01       |      |        | RR4              | B1    |                     |                    |                    |        |
| 00082   |        | XA410     | 21  |        | XA410     | 14  |      |             | 16B  | 9     |        | +05RES   | 415      |      |        | RR4              | CP    |                     |                    |                    |        |
| 00083   |        | XA410     | 22  |        | XA410     | 21  |      |             | 16B  | 9     |        | +05RES   | 410      |      |        | RR4              | CP    |                     |                    |                    |        |
| 15667   |        | XA410     | 23  |        |           |     |      |             | 16B  | 9     |        | TSTBADX4 | 02       |      |        | RR4              | C3    |                     |                    |                    |        |
| 10014   |        | XA410     | 24  |        |           |     |      |             |      |       |        | TCS6ADX4 | 02       |      |        | RR4              | B3    |                     |                    |                    |        |
| 17324   |        | XA410     | 25  |        | XA428     | 33  |      |             | 16B  | 9     |        | UICSCB4  | 01       |      |        | RR4              | C4    |                     |                    |                    |        |
| 10002   |        | XA410     | 26  |        |           |     |      |             |      |       |        | TCS5ADX4 | 02       |      |        | RR4              | B2    |                     |                    |                    |        |
| 01376   |        | XA410     | 27  |        |           |     |      |             |      |       |        | DNW      | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 00575   |        | XA410     | 28  |        |           |     |      |             |      |       |        | +5V      | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 17316   |        | XA410     | 29  |        | XA428     | 20  |      |             | 16B  | 9     |        | UICPEB4  | 01       |      |        | RR4              | C5    |                     |                    |                    |        |
| 03453   |        | XA410     | 30  |        | XA410     | 18  |      |             | 16B  | 9     |        | G41002   | 03       |      |        | RR4              | CC    |                     |                    |                    | B05    |
| 01377   |        | XA410     | 31  |        |           |     |      |             |      |       |        | DNW      | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 02718   |        | XA410     | 32  |        |           |     |      |             |      |       |        | GND      | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 21114   |        | XA410     | 32  |        | XA420     | 77  |      | AD          | 1EB  | 0     |        | TCS0ADG4 | 01       |      |        | RR4              |       |                     |                    |                    | B05    |
| 21359   |        | XA410     | 32  |        | XA410     | 40  |      |             | 16B  | 9     |        | G41002   | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 00084   |        | XA410     | 33  |        | XA410     | 22  |      |             | 16B  | 9     |        | +05RES   | 405      |      |        | RR4              | DP    |                     |                    |                    |        |
| 00085   |        | XA410     | 34  |        | XA410     | 33  |      |             | 16B  | 9     |        | +05RES   | 400      |      |        | RR4              | DP    |                     |                    |                    |        |
| 20460   |        | XA410     | 35  |        | XA511     | 15  |      |             | 16B  | 9     |        | SPI300   | 01       |      |        | RR4              | D3    |                     |                    |                    | C13    |
| 15313   |        | XA410     | 36  |        | XA446     | 11  |      |             | 16B  | 9     |        | JMTSAB4  | 05       |      |        | RR4              | C1    |                     |                    |                    | C13    |
| 20461   |        | XA410     | 37  |        |           |     |      |             |      |       |        | JUMP01   | 02       |      |        | RR4              | D4    |                     |                    |                    |        |
| 13387   |        | XA410     | 38  |        | XA415     | 13  |      |             | 16B  | 9     |        | TINTADX4 | 02       |      |        | RR4              | C2    |                     |                    |                    |        |
| 20462   |        | XA410     | 39  |        |           |     |      |             |      |       |        | SPR      | 01       |      |        | RR4              | D5    |                     |                    |                    |        |
| 03452   |        | XA410     | 40  |        | XA410     | 30  |      |             | 16B  | 9     |        | G41002   | 02       |      |        | RR4              | DC    |                     |                    |                    | B05    |
| 07765   |        | XA410     | 41  |        | XA532     | 08  |      |             | 16B  | 9     |        | XB00DB4  | 035      |      |        | RR4              | E5    |                     |                    |                    | C13    |
| 17335   |        | XA410     | 42  |        | XA428     | 27  |      |             | 16B  | 9     |        | UICSSB4  | 01       |      |        | RR4              | D1    |                     |                    |                    |        |
| 01378   |        | XA410     | 43  |        |           |     |      |             |      |       |        | DNW      | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 02719   |        | XA410     | 44  |        |           |     |      |             |      |       |        | GND      | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 21362   |        | XA410     | 44  |        |           |     |      |             |      |       |        | G41044   | 06       |      |        | RR4              |       |                     |                    |                    | B05    |
| 21458   |        | XA410     | 44  |        |           |     |      |             |      |       |        | +5VDCG   | 02       |      |        | RR4              |       |                     |                    |                    | C13    |
| 07770   |        | XA410     | 45  |        | XA532     | 10  |      |             | 16B  | 9     |        | XB01DB4  | 005      |      |        | RR4              | E4    |                     |                    |                    | C13    |
| 03778   |        | XA410     | 46  |        | XA410     | 36  |      |             | 16B  | 9     |        | JMTSAB4  | 03       |      |        | RR4              | D2    |                     |                    |                    | C13    |
| 07771   |        | XA410     | 47  |        | XA532     | 05  |      |             | 16B  | 9     |        | XB02DB4  | 005      |      |        | RR4              | E3    |                     |                    |                    | C13    |
| 20464   |        | XA410     | 48  |        | XA532     | 07  |      |             | 16B  | 9     |        | XB03DB4  | 005      |      |        | RR4              | E2    |                     |                    |                    | C13    |
| 00086   |        | XA410     | 49  |        | XA410     | 50  |      |             | 16B  | 9     |        | +5VDCF   | 02       |      |        | RR4              | EP    |                     |                    |                    | C13    |
| CONNECTOR XA410 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |          |          |      |        |                  |       |                     |                    |                    |        |

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| RECORD NUMBER                                    | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL   | SQ NO | EQUATION | TERM | FACTOR | CKT OP CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|--|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|----------|-------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|  | PREFIX | CONNECTOR | PIN | SIZE | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR | IDENT |          |       |          |      |        |                  |       |                     |                    |                    |        |
| 00087  |        | XA410     | 50  |      |        | XA410     | 59  |      |             | 16B  | 9     |       | +5VDCF   | 03    |          |      |        | RR4              | EP    |                     |                    | C13                |        |
| 07772  |        | XA410     | 51  |      |        | XA532     | 09  |      |             | 16B  | 9     |       | XB040B4  | 005   |          |      |        | RR4              | F5    |                     |                    | C13                |        |
| 20463  |        | XA410     | 52  |      |        | XA532     | 20  |      |             | 16B  | 9     |       | XB050B4  | 005   |          |      |        | RR4              | E1    |                     |                    | C13                |        |
| 07773  |        | XA410     | 53  |      |        | XA532     | 26  |      |             | 16B  | 9     |       | XB060B4  | 005   |          |      |        | RR4              | F4    |                     |                    | C13                |        |
| 03449  |        | XA410     | 54  |      |        | XA410     | 44  |      |             | 16B  | 9     |       | G41044   | 05    |          |      |        | RR4              | EC    |                     |                    | B05                |        |
| 07774  |        | XA410     | 55  |      |        | XA532     | 24  |      |             | 16B  | 9     |       | XB070B4  | 005   |          |      |        | RR4              | F3    |                     |                    | C13                |        |
| 07775  |        | XA410     | 56  |      |        | XA532     | 17  |      |             | 16B  | 9     |       | XB0PDB4  | 005   |          |      |        | RR4              | F2    |                     |                    | C13                |        |
| 03882  |        | XA410     | 57  |      |        |           |     |      |             |      |       |       | DNW      | 01    |          |      |        | RR4              |       |                     |                    | C04                |        |
| 03883  |        | XA410     | 58  |      |        |           |     |      |             |      |       |       | DNW      | 01    |          |      |        | RR4              |       |                     | KEYWAY             | C04                |        |
| 00088  |        | XA410     | 59  |      |        | XA410     | 60  |      |             | 16B  | 9     |       | +5VDCF   | 04    |          |      |        | RR4              | FP    |                     |                    | C13                |        |
| 0J089  |        | XA410     | 60  |      |        | XA410     | 69  |      |             | 16B  | 9     |       | +5VDCF   | 05    |          |      |        | RR4              | FP    |                     |                    | C13                |        |
| 07776  |        | XA410     | 61  |      |        | XA532     | 19  |      |             | 16B  | 9     |       | XBR0DB4  | 005   |          |      |        | RR4              | G5    |                     |                    | C13                |        |
| 07777  |        | XA410     | 62  |      |        | XA532     | 36  |      |             | 16B  | 9     |       | XBR1DB4  | 005   |          |      |        | RR4              | F1    |                     |                    | C13                |        |
| 07778  |        | XA410     | 63  |      |        | XA532     | 38  |      |             | 16B  | 9     |       | XBR2DB4  | 005   |          |      |        | RR4              | G4    |                     |                    | C13                |        |
| 03448  |        | XA410     | 64  |      |        | XA410     | 54  |      |             | 16B  | 9     |       | G41044   | 04    |          |      |        | RR4              | FC    |                     |                    | B05                |        |
| 07779  |        | XA410     | 65  |      |        | XA532     | 23  |      |             | 16B  | 9     |       | XBR3DB4  | 005   |          |      |        | RR4              | G3    |                     |                    | C13                |        |
| 07780  |        | XA410     | 66  |      |        | XA526     | 78  |      |             | 16B  | 9     |       | XBR4DB4  | 005   |          |      |        | RR4              | G2    |                     |                    | C13                |        |
| 21124  |        | XA410     | 67  |      |        |           |     |      |             |      |       | K     | +05REG   | 06    |          |      |        | RR4              |       |                     |                    |                    |        |
| 21335  |        | XA410     | 67  |      |        |           |     |      |             |      |       |       | GND      |       |          |      |        | RR4              |       |                     |                    | A01                |        |
| 21361  |        | XA410     | 67  |      |        | XA410     | 77  |      |             | 16B  | 9     |       | G41044   | 01    |          |      |        | RR4              |       |                     |                    | B05                |        |
| 01379  |        | XA410     | 68  |      |        |           |     |      |             |      |       |       | DNW      | 01    |          |      |        | RR4              |       |                     |                    |                    |        |
| 00090  |        | XA410     | 69  |      |        | XA410     | 70  |      |             | 16B  | 9     |       | +5VDCF   | 06    |          |      |        | RR4              | GP    |                     |                    | C13                |        |
| 00091  |        | XA410     | 70  |      |        | XA410     | 79  |      |             | 16B  | 9     |       | +5VDCF   | 07    |          |      |        | RR4              | GP    |                     |                    | C13                |        |
| 07781  |        | XA410     | 71  |      |        | XA526     | 80  |      |             | 16B  | 9     |       | XBR5DB4  | 005   |          |      |        | RR4              | H5    |                     |                    | C13                |        |
| 07782  |        | XA410     | 72  |      |        | XA532     | 42  |      |             | 16B  | 9     |       | XBR6DB4  | 005   |          |      |        | RR4              | G1    |                     |                    | C13                |        |
| 07783  |        | XA410     | 73  |      |        | XA532     | 46  |      |             | 16B  | 9     |       | XBR7DB4  | 005   |          |      |        | RR4              | H4    |                     |                    | C13                |        |
| 03445  |        | XA410     | 74  |      |        | XA410     | 64  |      |             | 16B  | 9     |       | G41044   | 03    |          |      |        | RR4              | GC    |                     |                    | B05                |        |
| 07784  |        | XA410     | 75  |      |        | XA532     | 39  |      |             | 16B  | 9     |       | XBENDB4  | 005   |          |      |        | RR4              | H3    |                     |                    | C13                |        |
| 07785  |        | XA410     | 76  |      |        | XA528     | 80  |      |             | 16B  | 9     |       | XBCMDB4  | 005   |          |      |        | RR4              | H2    |                     |                    | C13                |        |
| 03444  |        | XA410     | 77  |      |        | XA410     | 74  |      |             | 16B  | 9     |       | G41044   | 02    |          |      |        | RR4              | HC    |                     |                    | B05                |        |
| 07786  |        | XA410     | 78  |      |        | XA532     | 35  |      |             | 16B  | 9     |       | XBINDB4  | 005   |          |      |        | RR4              | H1    |                     |                    | C13                |        |
| 00092  |        | XA410     | 79  |      |        | XA410     | 80  |      |             | 16B  | 9     |       | +5VDCF   | 08    |          |      |        | RR4              | HP    |                     |                    | C13                |        |
| 00093  |        | XA410     | 80  |      |        | XA411     | 80  |      |             | 16B  | 9     |       | +5VDCF   | 09    |          |      |        | RR4              | HP    |                     |                    | C13                |        |
| 01380  |        | XA411     | 01  |      |        |           |     |      |             |      |       |       | DNW      | 01    |          |      |        | RR4              |       |                     |                    |                    |        |
| 02720  |        | XA411     | 02  |      |        |           |     |      |             |      |       |       | GND      | 01    |          |      |        | RR4              |       |                     |                    |                    |        |
| 21364  |        | XA411     | 02  |      |        |           |     |      |             |      |       |       | G41102   | 06    |          |      |        | RR4              |       |                     |                    | B05                |        |
| 00094  |        | XA411     | 03  |      |        | XA411     | 04  |      |             | 16B  | 9     |       | +05RES   | 440   |          |      |        | RR4              | AP    |                     |                    |                    |        |
| 00095  |        | XA411     | 04  |      |        | XA411     | 13  |      |             | 16B  | 9     |       | +05RES   | 445   |          |      |        | RR4              | AP    |                     |                    |                    |        |
| 15285  |        | XA411     | 05  |      |        | XA206     | 06  |      |             | 16B  | 9     |       | TRDYADX4 | 02    |          |      |        | RR4              | A3    |                     |                    |                    |        |
| 03458  |        | XA411     | 06  |      |        | XA411     | 02  |      |             | 16B  | 9     |       | G41102   | 05    |          |      |        | RR4              | AC    |                     |                    | B05                |        |
| 11281  |        | XA411     | 07  |      |        |           |     |      |             |      |       |       | TDOPADX4 | 02    |          |      |        | RR4              | A4    |                     |                    |                    |        |
| 09896  |        | XA411     | 08  |      |        |           |     |      |             |      |       |       | TCSMADX4 | 02    |          |      |        | RR4              | A1    |                     |                    |                    |        |
| 11288  |        | XA411     | 09  |      |        |           |     |      |             |      |       |       | TD00ADX4 | 02    |          |      |        | RR4              | A5    |                     |                    |                    |        |
| 12513  |        | XA411     | 10  |      |        |           |     |      |             |      |       |       | TENAADX4 | 02    |          |      |        | RR4              | A2    |                     |                    |                    |        |
| 01381  |        | XA411     | 11  |      |        |           |     |      |             |      |       |       | DNW      | 01    |          |      |        | RR4              |       |                     |                    |                    |        |
| 00576  |        | XA411     | 12  |      |        |           |     |      |             |      |       |       | +5V      | 01    |          |      |        | RR4              |       |                     |                    |                    |        |
| 00096  |        | XA411     | 13  |      |        | XA411     | 14  |      |             | 16B  | 9     |       | +05RES   | 450   |          |      |        | RR4              | BP    |                     |                    |                    |        |
| 00097  |        | XA411     | 14  |      |        | XA411     | 21  |      |             | 16B  | 9     |       | +05RES   | 455   |          |      |        | RR4              | BP    |                     |                    |                    |        |
| CONNECTOR (XA411) CONTINUED ON THE NEXT PAGE.*** |        |           |     |      |        |           |     |      |             |      |       |       |          |       |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA411  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 279

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |        | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | OHM | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|--------|----------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI-GROUP | CODE | COL IN |          |        |          |      |        |                  |     |                     |                    |                    |        |
| 03884   |        | XA411     | 15  |        |           |     |             |      |        | DNW      | 01     |          |      |        | RR4              |     |                     |                    | KEYWAY             | C04    |
| 03885   |        | XA411     | 16  |        |           |     |             |      |        | DNW      | 01     |          |      |        | RR4              |     |                     |                    | KEYWAY             | C04    |
| 11453   |        | XA411     | 17  |        |           |     |             |      |        | TD04ADX4 | 02     |          |      |        | RR4              | B4  |                     |                    |                    |        |
| 03455   |        | XA411     | 18  |        | XA411     | 06  |             |      | 16B 9  | G41102   | 04     |          |      |        | RR4              | BC  |                     |                    |                    | B05    |
| 11489   |        | XA411     | 19  |        |           |     |             |      |        | T005ADX4 | 02     |          |      |        | RR4              | B5  |                     |                    |                    |        |
| 11331   |        | XA411     | 20  |        |           |     |             |      |        | TD01ADX4 | 02     |          |      |        | RR4              | B1  |                     |                    |                    |        |
| 00098   |        | XA411     | 21  |        | XA411     | 22  |             |      | 16B 9  | +05RES   | 460    |          |      |        | RR4              | CP  |                     |                    |                    |        |
| 00099   |        | XA411     | 22  |        | XA411     | 33  |             |      | 16B 9  | +05RES   | 465    |          |      |        | RR4              | CP  |                     |                    |                    |        |
| 05926   |        | XA411     | 23  |        |           |     |             |      |        | TCSXADX4 | 02     |          |      |        | RR4              | C3  |                     |                    |                    |        |
| 11417   |        | XA411     | 24  |        |           |     |             |      |        | TD03ADX4 | 02     |          |      |        | RR4              | B3  |                     |                    |                    |        |
| 05115   |        | XA411     | 25  |        |           |     |             |      |        | SPR      | 02     |          |      |        | RR4              | C4  |                     |                    |                    |        |
| 11371   |        | XA411     | 26  |        |           |     |             |      |        | TD02ADX4 | 02     |          |      |        | RR4              | B2  |                     |                    |                    | B05    |
| 01382   |        | XA411     | 27  |        |           |     |             |      |        | DNW      | 01     |          |      |        | RR4              |     |                     |                    |                    |        |
| 00577   |        | XA411     | 28  |        |           |     |             |      |        | +5V      | 01     |          |      |        | RR4              |     |                     |                    |                    |        |
| 17320   |        | XA411     | 29  |        | XA428     | 73  |             |      | 16B 9  | UICRTB4  | 01     |          |      |        | RR4              | C5  |                     |                    |                    |        |
| 03454   |        | XA411     | 30  |        | XA411     | 18  |             |      | 16B 9  | G41102   | 03     |          |      |        | RR4              | CC  |                     |                    |                    | B05    |
| 01383   |        | XA411     | 31  |        |           |     |             |      |        | DNW      | 01     |          |      |        | RR4              |     |                     |                    |                    |        |
| 02721   |        | XA411     | 32  |        |           |     |             |      |        | GND      | 01     |          |      |        | RR4              |     |                     |                    |                    |        |
| 21363   |        | XA411     | 32  |        | XA411     | 40  |             |      | 16B 9  | G41102   | 01     |          |      |        | RR4              |     |                     |                    |                    | B05    |
| 00100   |        | XA411     | 33  |        | XA411     | 34  |             |      | 16B 9  | +05RES   | 470    |          |      |        | RR4              | DP  |                     |                    |                    |        |
| 00101   |        | XA411     | 34  |        | XA430     | 03  |             |      | 16B 9  | +05RES   | 475    |          |      |        | RR4              | DP  |                     |                    |                    | C13    |
| 17343   |        | XA411     | 35  |        | XA428     | 75  |             |      | 16B 9  | UICTDB4  | 01     |          |      |        | RR4              | D3  |                     |                    |                    |        |
| 11525   |        | XA411     | 36  |        |           |     |             |      |        | TD06ADX4 | 02     |          |      |        | RR4              | C1  |                     |                    |                    |        |
| 17348   |        | XA411     | 37  |        | XA203     | 75  |             |      | 16B 9  | URTC1B4  | 02     |          |      |        | RR4              | D4  |                     |                    |                    |        |
| 11561   |        | XA411     | 38  |        |           |     |             |      |        | TD07ADX4 | 02     |          |      |        | RR4              | C2  |                     |                    |                    |        |
| 07787   |        | XA411     | 39  |        |           |     |             |      |        | SPI309   | 21     |          |      |        | RR4              | D5  |                     |                    |                    | D01    |
| 03451   |        | XA411     | 40  |        | XA411     | 30  |             |      | 16B 9  | G41102   | 02     |          |      |        | RR4              | DC  |                     |                    |                    | B05    |
| 07788   |        | XA411     | 41  |        | XA532     | 52  |             |      | 16B 9  | XC00DB4  | 005    |          |      |        | RR4              | E5  |                     |                    |                    | C13    |
| 17328   |        | XA411     | 42  |        | XA428     | 38  |             |      | 16B 9  | UICSMB4  | 01     |          |      |        | RR4              | D1  |                     |                    |                    |        |
| 01384   |        | XA411     | 43  |        |           |     |             |      |        | DNW      | 01     |          |      |        | RR4              |     |                     |                    |                    |        |
| 02722   |        | XA411     | 44  |        |           |     |             |      |        | GND      | 01     |          |      |        | RR4              |     |                     |                    |                    |        |
| 21366   |        | XA411     | 44  |        |           |     |             |      |        | G41144   | 06     |          |      |        | RR4              |     |                     |                    |                    | B05    |
| 07789   |        | XA411     | 45  |        | XA532     | 48  |             |      | 16B 9  | XC010B4  | 005    |          |      |        | RR4              | E4  |                     |                    |                    | C13    |
| 17339   |        | XA411     | 46  |        | XA428     | 79  |             |      | 16B 9  | UICTAB4  | 01     |          |      |        | RR4              | D2  |                     |                    |                    |        |
| 07790   |        | XA411     | 47  |        | XA532     | 47  |             |      | 16B 9  | XC020B4  | 005    |          |      |        | RR4              | E3  |                     |                    |                    | C13    |
| 07791   |        | XA411     | 48  |        | XA532     | 45  |             |      | 16B 9  | XC030B4  | 005    |          |      |        | RR4              | E2  |                     |                    |                    | C13    |
| 00102   |        | XA411     | 49  |        | XA429     | 80  |             |      | 16B 9  | +5VDCF   | 17     |          |      |        | RR4              | EP  |                     |                    |                    | C13    |
| 00103   |        | XA411     | 50  |        | XA411     | 49  |             |      | 16B 9  | +5VDCF   | 16     |          |      |        | RR4              | EP  |                     |                    |                    | C13    |
| 07792   |        | XA411     | 51  |        | XA532     | 41  |             |      | 16B 9  | XC040B4  | 005    |          |      |        | RR4              | F5  |                     |                    |                    | C13    |
| 07793   |        | XA411     | 52  |        | XA532     | 62  |             |      | 16B 9  | XC050B4  | 005    |          |      |        | RR4              | E1  |                     |                    |                    | C13    |
| 07794   |        | XA411     | 53  |        | XA532     | 56  |             |      | 16B 9  | XC060B4  | 005    |          |      |        | RR4              | F4  |                     |                    |                    | C13    |
| 03450   |        | XA411     | 54  |        | XA411     | 44  |             |      | 16B 9  | G41144   | 05     |          |      |        | RR4              | EC  |                     |                    |                    | B05    |
| 07795   |        | XA411     | 55  |        | XA532     | 55  |             |      | 16B 9  | XC070B4  | 005    |          |      |        | RR4              | F3  |                     |                    |                    | C13    |
| 07796   |        | XA411     | 56  |        | XA533     | 46  |             |      | 16B 9  | XC0PDB4  | 005    |          |      |        | RR4              | F2  |                     |                    |                    | C13    |
| 03886   |        | XA411     | 57  |        |           |     |             |      |        | DNW      | 01     |          |      |        | RR4              |     |                     |                    | KEYWAY             | C04    |
| 03887   |        | XA411     | 58  |        |           |     |             |      |        | DNW      | 01     |          |      |        | RR4              |     |                     |                    | KEYWAY             | C04    |
| 00104   |        | XA411     | 59  |        | XA411     | 50  |             |      | 16B 9  | +5VDCF   | 15     |          |      |        | RR4              | FP  |                     |                    |                    | C13    |
| 00105   |        | XA411     | 60  |        | XA411     | 59  |             |      | 16B 9  | +5VDCF   | 14     |          |      |        | RR4              | FP  |                     |                    |                    | C13    |
| 07797   |        | XA411     | 61  |        | XA533     | 55  |             |      | 16B 9  | XC00DB4  | 005    |          |      |        | RR4              | G5  |                     |                    |                    | C13    |
| 07798   |        | XA411     | 62  |        | XA532     | 72  |             |      | 16B 9  | XCR10B4  | 005    |          |      |        | RR4              | F1  |                     |                    |                    | C13    |
| CONNECTOR XA411 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |        |          |        |          |      |        |                  |     |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA411  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 280

| RECORD NUMBER | FROM   |           |                                 |             | TO     |           |     |             | WIRE        |      |       |       | SIGNAL  | SEG NO | INITIATION | TERMINATION | SIGNAL DESCRIPTION | CIRCUIT NO       |
|---------------|--------|-----------|---------------------------------|-------------|--------|-----------|-----|-------------|-------------|------|-------|-------|---------|--------|------------|-------------|--------------------|------------------|
|               | PREFIX | CONNECTOR | PIN                             | TERMINATION | PREFIX | CONNECTOR | PIN | TERMINATION | MULTI-GROUP | CODE | COLOR | IDENT |         |        |            |             |                    |                  |
| 07799         | XA411  | 63        |                                 |             | XA532  | 66        |     |             |             | 16B  | 9     |       | XCR2DB4 | 005    |            |             | RR4 G4             | C13              |
| 03447         | XA411  | 64        |                                 |             | XA411  | 54        |     |             |             | 16B  | 9     |       | G41144  | 04     |            |             | RR4 FC             | B05              |
| 07800         | XA411  | 65        |                                 |             | XA533  | 65        |     |             |             | 16B  | 9     |       | XCR3DB4 | 005    |            |             | RR4 G3             | C13              |
| 07801         | XA411  | 66        |                                 |             | XA533  | 78        |     |             |             | 16B  | 9     |       | XCR4DB4 | 005    |            |             | RR4 G2             | C13              |
| 02723         | XA411  | 67        |                                 |             |        |           |     |             |             |      |       |       | GND     | 01     |            |             | RR4                |                  |
| 21365         | XA411  | 67        |                                 |             | XA411  | 77        |     |             |             | 16B  | 9     |       | G41144  | 01     |            |             | RR4                | B05              |
| 01385         | XA411  | 68        |                                 |             |        |           |     |             |             |      |       |       | DNW     | 01     |            |             | RR4                |                  |
| 00106         | XA411  | 69        |                                 |             | XA411  | 60        |     |             |             | 16B  | 9     |       | +5VDCF  | 13     |            |             | RR4 GP             | C13              |
| 00107         | XA411  | 70        |                                 |             | XA411  | 69        |     |             |             | 16B  | 9     |       | +5VDCF  | 12     |            |             | RR4 GP             | C13              |
| 07802         | XA411  | 71        |                                 |             | XA533  | 80        |     |             |             | 16B  | 9     |       | XCR5DB4 | 005    |            |             | RR4 H5             | C13              |
| 07803         | XA411  | 72        |                                 |             | XA532  | 78        |     |             |             | 16B  | 9     |       | XCR6DB4 | 005    |            |             | RR4 G1             | C13              |
| 07804         | XA411  | 73        |                                 |             | XA535  | 65        |     |             |             | 16B  | 9     |       | XCR7DB4 | 005    |            |             | RR4 H4             | C13              |
| 03446         | XA411  | 74        |                                 |             | XA411  | 64        |     |             |             | 16B  | 9     |       | G41144  | 03     |            |             | RR4 GC             | B05              |
| 07805         | XA411  | 75        |                                 |             | XA535  | 61        |     |             |             | 16B  | 9     |       | XCENDB4 | 005    |            |             | RR4 H3             | C13              |
| 07806         | XA411  | 76        |                                 |             | XA535  | 80        |     |             |             | 16B  | 9     |       | XCR8DB4 | 005    |            |             | RR4 H2             | C13              |
| 03443         | XA411  | 77        |                                 |             | XA411  | 74        |     |             |             | 16B  | 9     |       | G41144  | 02     |            |             | RR4 HC             | B05              |
| 07807         | XA411  | 78        |                                 |             | XA535  | 78        |     |             |             | 16B  | 9     |       | XCINDB4 | 005    |            |             | RR4 H1             | C13              |
| 00108         | XA411  | 79        |                                 |             | XA411  | 70        |     |             |             | 16B  | 9     |       | +5VDCF  | 11     |            |             | RR4 HP             | C13              |
| 00109         | XA411  | 80        |                                 |             | XA411  | 79        |     |             |             | 16B  | 9     |       | +5VDCF  | 10     |            |             | RR4 HP             | C13              |
| 13500         | XA412  | 01        |                                 |             | XA412  | 10        |     |             |             | 16B  | 9     |       | TIOIHA  | 04     | TR03BR     | 01 1        | TD4 A2             | 02B              |
| 02724         | XA412  | 02        |                                 |             |        |           |     |             |             |      |       |       | GND     | 01     |            |             | TD4                | 01A              |
| 01386         | XA412  | 03        |                                 |             |        |           |     |             |             |      |       |       | DNW     | 01     |            |             | TD4                |                  |
| 15235         | XA412  | 04        |                                 |             | XA206  | 80        |     |             |             | 16B  | 9     |       | TRCR1A  | 10     | TR03BR     | 01 2        | TD4 A2             | 04A              |
| 15478         | XA412  | 05        |                                 |             |        |           |     |             |             |      |       |       | TR03BS  | 04     | TR03BR     | 01 3        | TD4 A2             | 03B              |
| 15469         | XA412  | 06        |                                 |             | XA413  | 03        |     |             |             | 16B  | 9     |       | TR02BS  | 04     | TR02BR     | 01 1        | TD4 A1             | 05A              |
| 15253         | XA412  | 07        |                                 |             |        |           |     |             |             |      |       |       | TRC03A  | 02     | TR03BR     | 01 4        | TD4 A2             | 03A              |
| 15234         | XA412  | 08        |                                 |             | XA412  | 04        |     |             |             | 16B  | 9     |       | TRCR1A  | 09     | TR02BR     | 01 2        | TD4 A1             | 06A              |
| 15474         | XA412  | 09        |                                 |             |        |           |     |             |             |      |       |       | TR03BR  | 03     | TR03BR     | 00 1        | TD4 A2             | 04B              |
| 13501         | XA412  | 10        |                                 |             | XA412  | 14        |     |             |             | 16B  | 9     |       | TIOIHA  | 05     | TR02BR     | 01 3        | TD4 A1             | 07A              |
| 15465         | XA412  | 11        |                                 |             |        |           |     |             |             |      |       |       | TR02BR  | 06     | TR02BR     | 00 1        | TD4 A1             | 05B              |
| 00578         | XA412  | 12        |                                 |             |        |           |     |             |             |      |       |       | +5V     | 01     |            |             | TD4                | REQ REG 3RD PRIO |
| 15250         | XA412  | 13        |                                 |             | XA415  | 57        |     |             |             | 16B  | 9     |       | TRC02A  | 01     | TR02BR     | 01 4        | TD4 A1             | 06B              |
| 13502         | XA412  | 14        |                                 |             | XA412  | 25        |     |             |             | 16B  | 9     |       | TIOIHA  | 06     | TR05BR     | 01 1        | TD4 B2             | 09A              |
| 01387         | XA412  | 15        |                                 |             |        |           |     |             |             |      |       |       | DNW     | 01     |            |             | TD4                |                  |
| 02725         | XA412  | 16        |                                 |             |        |           |     |             |             |      |       |       | GND     | 01     |            |             | TD4                | 20B              |
| 01388         | XA412  | 17        |                                 |             |        |           |     |             |             |      |       |       | DNW     | 01     |            |             | TD4                |                  |
| 15233         | XA412  | 18        |                                 |             | XA412  | 08        |     |             |             | 16B  | 9     |       | TRCR1A  | 08     | TR05BR     | 01 2        | TD4 B2             | 10A              |
| 15497         | XA412  | 19        |                                 |             |        |           |     |             |             |      |       |       | TR05BS  | 04     | TR05BR     | 01 3        | TD4 B2             | 09B              |
| 15257         | XA412  | 20        |                                 |             |        |           |     |             |             |      |       |       | TRC05A  | 02     | TR05BR     | 01 4        | TD4 B2             | 11A              |
| 15493         | XA412  | 21        |                                 |             |        |           |     |             |             |      |       |       | TR05BR  | 04     | TR05BR     | 00 1        | TD4 B2             | 10B              |
| 15485         | XA412  | 22        |                                 |             | XA413  | 24        |     |             |             | 16B  | 9     |       | TR04BS  | 01     | TR04BR     | 01 1        | TD4 B1             | 12A              |
| 15480         | XA412  | 23        |                                 |             | XA435  | 19        |     |             |             | 16B  | 9     |       | TR04BR  | 01     | TR04BR     | 00 1        | TD4 B1             | 11B              |
| 15232         | XA412  | 24        |                                 |             | XA412  | 18        |     |             |             | 16B  | 9     |       | TRCR1A  | 07     | TR04BR     | 01 2        | TD4 B1             | 13A              |
| 13503         | XA412  | 25        |                                 |             | XA412  | 30        |     |             |             | 16B  | 9     |       | TIOIHA  | 07     | TR04BR     | 01 3        | TD4 B1             | 12B              |
| 15254         | XA412  | 26        |                                 |             | XA415  | 75        |     |             |             | 16B  | 9     |       | TRC04A  | 01     | TR04BR     | 01 4        | TD4 B1             | 14A              |
| 01389         | XA412  | 27        |                                 |             |        |           |     |             |             |      |       |       | DNW     | 01     |            |             | TD4                |                  |
| 00579         | XA412  | 28        |                                 |             |        |           |     |             |             |      |       |       | +5V     | 01     |            |             | TD4                |                  |
| 01390         | XA412  | 29        |                                 |             |        |           |     |             |             |      |       |       | DNW     | 01     |            |             | TD4                |                  |
| CONNECTOR     |        | XA412     | CONTINUED ON THE NEXT PAGE **** |             |        |           |     |             |             |      |       |       |         |        |            |             |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA412  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 281

| RECORD NUMBER                                   | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCL OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|---------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | INFC | PREFIX | CONNECTOR | PIN | INFC | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |        |                  |       |                     |                     |                    |        |
| 13504   |        | XA412     | 30  |      |        | XA412     | 40  |      |             |      | 16B   | 9     |        | TIOIHA | 08       | TR07BR | 01     | 1                | TD4   | C2                  | 15A                 |                    |        |
| 15231   |        | XA412     | 31  |      |        | XA412     | 24  |      |             |      | 16B   | 9     |        | TRCR1A | 06       | TR07BR | 01     | 2                | TD4   | C2                  | 15B                 |                    |        |
| 02726   |        | XA412     | 32  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |        |        |                  | TD4   |                     |                     | 21B                |        |
| 15510   |        | XA412     | 33  |      |        |           |     |      |             |      |       |       |        | TR07BR | 04       | TR07BR | 00     | 1                | TD4   | C2                  | 16B                 | REQ REG 8TH PRIO   |        |
| 15511   |        | XA412     | 34  |      |        | XA413     | 23  |      |             |      | 16B   | 9     |        | TP07BS | 01       | TR07BR | 01     | 3                | TD4   | C2                  | 16A                 |                    |        |
| 15501   |        | XA412     | 35  |      |        |           |     |      |             |      |       |       |        | TR06BR | 03       | TR06BR | 00     | 1                | TD4   | C1                  | 17B                 | REQ REG 7TH PRIO   |        |
| 15261   |        | XA412     | 36  |      |        |           |     |      |             |      |       |       |        | TRC07A | 02       | TR07BR | 01     | 4                | TD4   | C2                  | 17A                 |                    |        |
| 15503   |        | XA412     | 37  |      |        | XA435     | 33  |      |             |      | 16B   | 9     |        | TR06BS | 02       | TR06BR | 01     | 1                | TD4   | C1                  | 18B                 |                    |        |
| 15230   |        | XA412     | 38  |      |        | XA412     | 31  |      |             |      | 16B   | 9     |        | TRCR1A | 05       | TR06BR | 01     | 2                | TD4   | C1                  | 18A                 |                    |        |
| 01391   |        | XA412     | 39  |      |        |           |     |      |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                     |                    |        |
| 13505   |        | XA412     | 40  |      |        | XA437     | 13  |      |             |      | 16B   | 9     |        | TIOIHA | 09       | TR06BR | 01     | 3                | TD4   | C1                  | 19A                 |                    |        |
| 01392   |        | XA412     | 41  |      |        |           |     |      |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                     |                    |        |
| 15258   |        | XA412     | 42  |      |        | XA415     | 69  |      |             |      | 16B   | 9     |        | TRC06A | 01       | TR06BR | 01     | 4                | TD4   | C1                  | 20A                 |                    |        |
| 05701   |        | XA412     | 43  |      |        | XA412     | 60  |      |             |      | 16B   | 9     |        | SPI028 | 26       |        | 01     | 1                | TD4   | D2                  | 23B                 |                    |        |
| 02727   |        | XA412     | 44  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |        |        |                  | TD4   |                     |                     | 27A                |        |
| 07933   |        | XA412     | 45  |      |        |           |     |      |             |      |       |       |        | SPO    | 01       |        | 00     | 1                | TD4   | D2                  | 24B                 |                    |        |
| 05835   |        | XA412     | 46  |      |        | XA412     | 55  |      |             |      | 16B   | 9     |        | SPI032 | 19       |        | 01     | 2                | TD4   | D2                  | 21A                 |                    |        |
| 15655   |        | XA412     | 47  |      |        | XA414     | 46  |      |             |      | 16B   | 9     |        | TSS1AA | 01       | TSS1AA | 00     | 1                | TD4   | D1                  | 25B                 | INHIBIT START CON  |        |
| 05853   |        | XA412     | 48  |      |        | XA412     | 62  |      |             |      | 16B   | 9     |        | SPI033 | 02       |        | 01     | 3                | TD4   | D2                  | 22A                 |                    |        |
| 12948   |        | XA412     | 49  |      |        |           |     |      |             |      |       |       |        | TFIOUA | 03       | TSS1AA | 01     | 1                | TD4   | D1                  | 26B                 |                    |        |
| 05619   |        | XA412     | 50  |      |        | XA412     | 64  |      |             |      | 16B   | 9     |        | SPI026 | 11       |        | 01     | 4                | TD4   | D2                  | 23A                 |                    |        |
| 01393   |        | XA412     | 51  |      |        |           |     |      |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                     |                    |        |
| 15648   |        | XA412     | 52  |      |        | XA433     | 09  |      |             |      | 16B   | 9     |        | TSSGCP | 01       | TSS1AA | 01     | 2                | TD4   | D1                  | 24A                 |                    |        |
| 01394   |        | XA412     | 53  |      |        |           |     |      |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                     |                    |        |
| 15640   |        | XA412     | 54  |      |        | XA414     | 59  |      |             |      | 16B   | 9     |        | TSSGBP | 02       | TSS1AA | 01     | 3                | TD4   | D1                  | 25A                 |                    |        |
| 05836   |        | XA412     | 55  |      |        | XA412     | 68  |      |             |      | 16B   | 9     |        | SPI032 | 20       |        | 01     | 1                | TD4   | E2                  | 29B                 |                    |        |
| 15632   |        | XA412     | 56  |      |        | XA414     | 49  |      |             |      | 16B   | 9     |        | TSSGAP | 02       | TSS1AA | 01     | 4                | TD4   | D1                  | 26A                 |                    |        |
| 07934   |        | XA412     | 57  |      |        |           |     |      |             |      |       |       |        | SPO    | 01       |        | 00     | 1                | TD4   | E2                  | 33B                 |                    |        |
| 02728   |        | XA412     | 58  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |        |        |                  | TD4   |                     |                     | 40A                |        |
| 07935   |        | XA412     | 59  |      |        |           |     |      |             |      |       |       |        | SPO    | 01       |        | 00     | 1                | TD4   | E1                  | 31B                 |                    |        |
| 05702   |        | XA412     | 60  |      |        | XA412     | 70  |      |             |      | 16B   | 9     |        | SPI028 | 27       |        | 01     | 2                | TD4   | E2                  | 28A                 |                    |        |
| 05855   |        | XA412     | 61  |      |        | XA412     | 73  |      |             |      | 16B   | 9     |        | SPI033 | 04       |        | 01     | 1                | TD4   | E1                  | 32B                 |                    |        |
| 05854   |        | XA412     | 62  |      |        | XA412     | 61  |      |             |      | 16B   | 9     |        | SPI033 | 03       |        | 01     | 3                | TD4   | E2                  | 29A                 |                    |        |
| 01395   |        | XA412     | 63  |      |        |           |     |      |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                     |                    |        |
| 05620   |        | XA412     | 64  |      |        | XA412     | 66  |      |             |      | 16B   | 9     |        | SPI026 | 12       |        | 01     | 4                | TD4   | E2                  | 30A                 |                    |        |
| 01396   |        | XA412     | 65  |      |        |           |     |      |             |      |       |       |        | DNW    | 01       |        |        |                  | TD4   |                     |                     |                    |        |
| 05621   |        | XA412     | 66  |      |        | XA412     | 72  |      |             |      | 16B   | 9     |        | SPI026 | 13       |        | 01     | 2                | TD4   | F1                  | 31A                 |                    |        |
| 02729   |        | XA412     | 67  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |        |        |                  | TD4   |                     |                     | 40B                |        |
| 05837   |        | XA412     | 68  |      |        | XA412     | 74  |      |             |      | 16B   | 9     |        | SPI032 | 21       |        | 01     | 3                | TD4   | E1                  | 32A                 |                    |        |
| 07936   |        | XA412     | 69  |      |        |           |     |      |             |      |       |       |        | SPO    | 01       |        | 00     | 1                | TD4   | F2                  | 35A                 |                    |        |
| 05703   |        | XA412     | 70  |      |        | XA412     | 71  |      |             |      | 16B   | 9     |        | SPI028 | 28       |        | 01     | 4                | TD4   | E1                  | 33A                 |                    |        |
| 05704   |        | XA412     | 71  |      |        | XA412     | 79  |      |             |      | 16B   | 9     |        | SPI028 | 29       |        | 01     | 1                | TD4   | F2                  | 36A                 |                    |        |
| 05622   |        | XA412     | 72  |      |        | XA412     | 75  |      |             |      | 16B   | 9     |        | SPI026 | 14       |        | 01     | 2                | TD4   | F2                  | 34A                 |                    |        |
| 05856   |        | XA412     | 73  |      |        | XA412     | 77  |      |             |      | 16B   | 9     |        | SPI033 | 05       |        | 01     | 3                | TD4   | F2                  | 36B                 |                    |        |
| 05838   |        | XA412     | 74  |      |        | XA412     | 78  |      |             |      | 16B   | 9     |        | SPI032 | 22       |        | 01     | 4                | TD4   | F2                  | 35B                 |                    |        |
| 05623   |        | XA412     | 75  |      |        | XA425     | 79  |      |             |      | 16B   | 9     |        | SPI026 | 15       |        | 01     | 1                | TD4   | F1                  | 37B                 |                    |        |
| 07937   |        | XA412     | 76  |      |        |           |     |      |             |      |       |       |        | SPO    | 01       |        | 00     | 1                | TD4   | F1                  | 37A                 |                    |        |
| 05857   |        | XA412     | 77  |      |        | XA414     | 79  |      |             |      | 16B   | 9     |        | SPI033 | 06       |        | 01     | 2                | TD4   | F1                  | 38B                 |                    |        |
| 05839   |        | XA412     | 78  |      |        | XA414     | 76  |      |             |      | 16B   | 9     |        | SPI032 | 23       |        | 01     | 3                | TD4   | F1                  | 38A                 | 001                |        |
| 05705   |        | XA412     | 79  |      |        | XA414     | 78  |      |             |      | 16B   | 9     |        | SPI028 | 30       |        | 01     | 4                | TD4   | F1                  | 39B                 | 001                |        |
| CONNECTOR XA412 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |        |        |                  |       |                     |                     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA412  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 282

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |           |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|---------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|-----------|
|   | PREFIX | CONNECTOR | PIN | INFO | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |         |        |                  |       |                     |                    |                    |                  | SPEC INST |
| 01397   |        | XA412     | 80  |      |        |           |     |      |             |      |       |       | DNW    | 01     |          |         |        | T04              |       |                     |                    |                    |                  |           |
| 03599   |        | XA413     | 01  |      | XA121  | 73        |     |      |             | 16B  | 9     |       | P      | TR01SD | 03       | JDB1184 | 03     | 1                | TLD   | A2                  |                    | 02B                | TR01 TO DATA BUS |           |
| 15459   |        | XA413     | 01  |      |        |           |     |      |             |      |       |       | J      | TR01SD | 01       | TR01SD  | 00     | 1                | TLD   | A2                  |                    | 02B                | JDB1184 BUSS     |           |
| 02730   |        | XA413     | 02  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |         |        |                  |       |                     |                    | 01A                |                  |           |
| 15470   |        | XA413     | 03  |      |        |           |     |      |             |      |       |       |        | TR02BS | 05       | TR02SD  | 01     | 1                | TLD   | A3                  |                    | 02A                | BUSS FOR CTS DIS |           |
| 15458   |        | XA413     | 04  |      |        |           |     |      |             |      |       |       |        | TR01BS | 04       | TR01SD  | 01     | 1                | TLD   | A2                  |                    | 04A                | BUSS FOR CTS DIS |           |
| 16635   |        | XA413     | 05  |      | XA413  | 07        |     |      |             | 16B  | 9     |       | P      | TTSBMO | 02       | TR01SD  | 01     | 2                | TLD   | A2                  |                    | 03B                |                  |           |
| 03593   |        | XA413     | 06  |      | XA121  | 71        |     |      |             | 16B  | 9     |       | P      | TR00SD | 03       | JDB1084 | 03     | 1                | TLD   | A1                  |                    | 05A                | TR00 TO DATA BUS |           |
| 15448   |        | XA413     | 06  |      |        |           |     |      |             |      |       |       | J      | TR00SD | 00       | TR00SD  | 00     | 1                | TLD   | A1                  |                    | 05A                | JDB1084 BUSS     |           |
| 16636   |        | XA413     | 07  |      | XA413  | 13        |     |      |             | 16B  | 9     |       |        | TTSBMO | 01       | TR02SD  | 01     | 2                | TLD   | A3                  |                    | 03A                |                  |           |
| 15447   |        | XA413     | 08  |      |        |           |     |      |             |      |       |       | J      | TR00BS | 05       | TR00SD  | 01     | 1                | TLD   | A1                  |                    | 06A                | BUSS FOR CTS DIS |           |
| 03605   |        | XA413     | 09  |      | XA120  | 72        |     |      |             | 16B  | 9     |       | P      | TR02SD | 03       | JDB1284 | 03     | 1                | TLD   | A3                  |                    | 04B                | TR02 TO DATA BUS |           |
| 15471   |        | XA413     | 09  |      |        |           |     |      |             |      |       |       | J      | TR02SD | 01       | TR02SD  | 00     | 1                | TLD   | A3                  |                    | 04B                | JDB1284 BUSS     |           |
| 16634   |        | XA413     | 10  |      | XA413  | 05        |     |      |             | 16B  | 9     |       |        | TTSBMO | 01       | TR00SD  | 01     | 2                | TLD   | A1                  |                    | 07A                |                  |           |
| 15477   |        | XA413     | 11  |      | XA412  | 05        |     |      |             | 16B  | 9     |       |        | TR03BS | 03       | TR03SD  | 01     | 1                | TLD   | A4                  |                    | 05B                | BUSS FOR CTS DIS |           |
| 0058C   |        | XA413     | 12  |      |        |           |     |      |             |      |       |       |        | +5V    | 01       |         |        |                  |       |                     |                    |                    |                  |           |
| 16637   |        | XA413     | 13  |      | XA413  | 19        |     |      |             | 16B  | 9     |       |        | TTSBMO | 04       | TR03SD  | 01     | 2                | TLD   | A4                  |                    | 06B                |                  |           |
| 03625   |        | XA413     | 14  |      | XA348  | 33        |     |      |             | 16B  | 9     |       | P      | TR05SD | 05       | JDB1584 | 03     | 1                | TLD   | B2                  |                    | 09A                | TR05 TO DATA BUS |           |
| 15498   |        | XA413     | 14  |      |        |           |     |      |             |      |       |       | J      | TR05SD | 01       | TR05SD  | 00     | 1                | TLD   | B2                  |                    | 09A                | JDB1584 BUSS     |           |
| 03613   |        | XA413     | 15  |      | XA348  | 21        |     |      |             | 16B  | 9     |       | P      | TR03SD | 05       | JDB1384 | 03     | 1                | TLD   | A4                  |                    | 07B                | TR03 TO DATA BUS |           |
| 15479   |        | XA413     | 15  |      |        |           |     |      |             |      |       |       | J      | TR03SD | 01       | TR03SD  | 03     | 1                | TLD   | A4                  |                    | 07B                | JDB1384 BUSS     |           |
| 02731   |        | XA413     | 16  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |         |        |                  |       |                     |                    | 01B                |                  |           |
| 15502   |        | XA413     | 17  |      | XA412  | 37        |     |      |             | 16B  | 9     |       |        | TR06BS | 01       | TR06SD  | 01     | 1                | TLD   | B3                  |                    | 08B                | BUSS FOR CTS DIS |           |
| 15496   |        | XA413     | 18  |      | XA412  | 19        |     |      |             | 16B  | 9     |       |        | TR05BS | 03       | TR05SD  | 01     | 1                | TLD   | B2                  |                    | 10A                | BUSS FOR CTS DIS |           |
| 16638   |        | XA413     | 19  |      | XA413  | 20        |     |      |             | 16B  | 9     |       |        | TTSBMO | 05       | TR06SD  | 01     | 2                | TLD   | B3                  |                    | 09B                |                  |           |
| 16639   |        | XA413     | 20  |      | XA413  | 26        |     |      |             | 16B  | 9     |       |        | TTSBMO | 06       | TR05SD  | 01     | 2                | TLD   | B2                  |                    | 11A                |                  |           |
| 03631   |        | XA413     | 21  |      | XA348  | 39        |     |      |             | 16B  | 9     |       | P      | TR06SD | 05       | JDB1684 | 03     | 1                | TLD   | B3                  |                    | 10B                | TR06 TO DATA BUS |           |
| 15506   |        | XA413     | 21  |      |        |           |     |      |             |      |       |       | J      | TR06SD | 01       | TR06SD  | 00     | 1                | TLD   | B3                  |                    | 10B                | JDB1684 BUSS     |           |
| 03619   |        | XA413     | 22  |      | XA348  | 27        |     |      |             | 16B  | 9     |       | P      | TR04SD | 05       | JDB1484 | 03     | 1                | TLD   | B1                  |                    | 12A                | TR04 TO DATA BUS |           |
| 15489   |        | XA413     | 22  |      |        |           |     |      |             |      |       |       | J      | TR04SD | 01       | TR04SD  | 00     | 1                | TLD   | B1                  |                    | 12A                | JDB1484 BUSS     |           |
| 15512   |        | XA413     | 23  |      | XA436  | 23        |     |      |             | 16B  | 9     |       |        | TR07BS | 02       | TR07SD  | 01     | 1                | TLD   | B4                  |                    | 11B                | BUSS FOR CTS DIS |           |
| 15486   |        | XA413     | 24  |      | XA435  | 21        |     |      |             | 16B  | 9     |       |        | TR04BS | 02       | TR04SD  | 01     | 1                | TLD   | B1                  |                    | 13A                | BUSS FOR CTS DIS |           |
| 16641   |        | XA413     | 25  |      | XA415  | 22        |     |      |             | 16B  | 9     |       |        | TTSBMO | 08       | TR07SD  | 01     | 2                | TLD   | B4                  |                    | 12B                |                  |           |
| 16640   |        | XA413     | 26  |      | XA413  | 25        |     |      |             | 16B  | 9     |       |        | TTSBMO | 07       | TR04SD  | 01     | 2                | TLD   | B1                  |                    | 14A                |                  |           |
| 03637   |        | XA413     | 27  |      | XA348  | 45        |     |      |             | 16B  | 9     |       | P      | TR07SD | 05       | JDB1784 | 03     | 1                | TLD   | B4                  |                    | 13B                | TR07 TO DATA BUS |           |
| 15515   |        | XA413     | 27  |      |        |           |     |      |             |      |       |       | J      | TR07SD | 01       | TR07SD  | 00     | 1                | TLD   | B4                  |                    | 13B                | JDB1784 BUSS     |           |
| 00581   |        | XA413     | 28  |      |        |           |     |      |             |      |       |       |        | +5V    | 01       |         |        |                  |       |                     |                    |                    |                  |           |
| 13527   |        | XA413     | 29  |      | XA330  | 60        |     |      |             | 16B  | 9     |       |        | T110BQ | 03       | T110SD  | 01     | 1                | TLD   | C3                  |                    | 14B                | BUSS FOR CTS DIS |           |
| 03649   |        | XA413     | 30  |      | XA348  | 57        |     |      |             | 16B  | 9     |       | P      | TR09SD | 05       | JDB1984 | 03     | 1                | TLD   | C2                  |                    | 15A                | TR09 TO DATA BUS |           |
| 15531   |        | XA413     | 30  |      |        |           |     |      |             |      |       |       | J      | TR09SD | 01       | TR09SD  | 00     | 1                | TLD   | C2                  |                    | 15A                | JDB1984 BUSS     |           |
| 16659   |        | XA413     | 31  |      | XA415  | 21        |     |      |             | 16B  | 9     |       |        | TTSBMO | 08       | T110SD  | 01     | 2                | TLD   | C3                  |                    | 15B                |                  |           |
| 02732   |        | XA413     | 32  |      |        |           |     |      |             |      |       |       |        | GND    | 01       |         |        |                  |       |                     |                    | 21B                |                  |           |
| 03574   |        | XA413     | 33  |      | XA348  | 75        |     |      |             | 16B  | 9     |       | P      | T110SD | 08       | JDB0784 | 03     | 1                | TLD   | C3                  |                    | 16B                | T110 TO DATA BUS | C07       |
| 13547   |        | XA413     | 33  |      |        |           |     |      |             |      |       |       | J      | T110SD | 01       | T110SD  | 03     | 1                | TLD   | C3                  |                    | 16B                | JDB0784 BUSS     |           |
| 15530   |        | XA413     | 34  |      |        |           |     |      |             |      |       |       |        | TR09BS | 04       | TR09SD  | 01     | 1                | TLD   | C2                  |                    | 16A                | BUSS FOR CTS DIS |           |
| 13574   |        | XA413     | 35  |      | XA205  | 33        |     |      |             | 16B  | 9     |       |        | T120BQ | 01       | T120SD  | 01     | 1                | TLD   | C4                  |                    | 17B                | BUSS FOR CTS DIS |           |
| 16644   |        | XA413     | 36  |      | XA413  | 43        |     |      |             | 16B  | 9     |       |        | TTSCMO | 02       | TR09SD  | 01     | 2                | TLD   | C2                  |                    | 17A                |                  |           |
| 16658   |        | XA413     | 37  |      | XA413  | 31        |     |      |             | 16B  | 9     |       |        | TTSCMO | 07       | T120SD  | 01     | 2                | TLD   | C4                  |                    | 18B                |                  |           |
| CONNECTOR (XA413) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |         |        |                  |       |                     |                    |                    |                  |           |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA413  
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| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |        |       | SIGNAL | SEQ NO | EQUATION | TUM     | FACT | CMT OR CHIP TYPE | PLAN | LOAD OR POWER PLANE | TEST POINTS (LAND) DR | SIGNAL DESCRIPTION  | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|--------|-------|--------|--------|----------|---------|------|------------------|------|---------------------|-----------------------|---------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COL IN | IDENT |        |        |          |         |      |                  |      |                     |                       |                     |        |
| 03643   |        | XA413     | 38  |        | XA348     | 51  |             | 16B  | 9      |       | J      | TRO8SD | 05       | JDB18B4 | 03   | 1                | TLD  | C1                  | 18A                   | TRO8 TO DATA BUS    |        |
| 15523   |        | XA413     | 38  |        |           |     |             |      |        |       | J      | TRO8SD | 01       | TRO8SD  | 00   | 1                | TLD  | C1                  | 18A                   | JDB18B4 BUSS        |        |
| 03582   |        | XA413     | 39  |        | XA337     | 56  |             | 16B  | 9      |       | J      | TI20SD | 04       | JDB08B4 | 03   | 1                | TLD  | C4                  | 19B                   | TI20 TO DATA BUS    |        |
| 13592   |        | XA413     | 39  |        |           |     |             |      |        |       | J      | TI20SD | 01       | TI20SD  | 03   | 1                | TLD  | C4                  | 19B                   | JDB08B4 BUSS        |        |
| 15522   |        | XA413     | 40  |        |           |     |             |      |        |       | J      | TRO8B5 | 04       | TRO8SD  | 01   | 1                | TLD  | C1                  | 19A                   | BUSS FOR CTS DIS    |        |
| 14450   |        | XA413     | 41  |        | XA443     | 63  |             | 16B  | 9      |       | J      | TM01A0 | 01       | TM01SD  | 01   | 1                | TLD  | D3                  | 22B                   | BUSS FOR CTS DIS    |        |
| 16657   |        | XA413     | 42  |        | XA413     | 37  |             | 16B  | 9      |       | J      | TTSDM0 | 06       | TRO8SD  | 01   | 2                | TLD  | C1                  | 20A                   |                     |        |
| 16645   |        | XA413     | 43  |        | XA413     | 50  |             | 16B  | 9      |       | J      | TTSCM0 | 03       | TM01SD  | 01   | 2                | TLD  | D3                  | 23B                   |                     |        |
| 02733   |        | XA413     | 44  |        |           |     |             |      |        |       | J      | GND    | 01       |         |      |                  |      |                     | 27A                   |                     |        |
| 03661   |        | XA413     | 45  |        | XA348     | 69  |             | 16B  | 9      |       | J      | TM01SD | 05       | JDB21B4 | 03   | 1                | TLD  | D3                  | 24B                   | TM01 TO CPU (CTS    |        |
| 14479   |        | XA413     | 45  |        |           |     |             |      |        |       | J      | TM01SD | 01       | TM01SD  | 00   | 1                | TLD  | D3                  | 24B                   | JDB21B4 BUSS        |        |
| 03655   |        | XA413     | 46  |        | XA348     | 63  |             | 16B  | 9      |       | J      | TM00SD | 05       | JDB20B4 | 03   | 1                | TLD  | D2                  | 21A                   | TM00 TO CPU (CTS    |        |
| 14447   |        | XA413     | 46  |        |           |     |             |      |        |       | J      | TM00SD | 01       | TM00SD  | 00   | 1                | TLD  | D2                  | 21A                   | JDB20B4 BUSS        |        |
| 14497   |        | XA413     | 47  |        | XA206     | 18  |             | 16B  | 9      |       | J      | TM02C0 | 01       | TM02SD  | 01   | 1                | TLD  | D4                  | 25B                   | BUSS FOR CTS DIS    |        |
| 14443   |        | XA413     | 48  |        | XA350     | 50  |             | 16B  | 9      |       | J      | TM00C0 | 01       | TM00SD  | 01   | 1                | TLD  | D2                  | 22A                   | BUSS FOR CTS DISE05 |        |
| 16647   |        | XA413     | 49  |        | XA413     | 55  |             | 16B  | 9      |       | J      | TTSCM0 | 05       | TM02SD  | 01   | 2                | TLD  | D4                  | 26B                   |                     |        |
| 16646   |        | XA413     | 50  |        | XA413     | 49  |             | 16B  | 9      |       | J      | TTSCM0 | 04       | TM00SD  | 01   | 2                | TLD  | D2                  | 23A                   |                     |        |
| 03667   |        | XA413     | 51  |        | XA348     | 80  |             | 16B  | 9      |       | J      | TM02SD | 05       | JDB22B4 | 03   | 1                | TLD  | D4                  | 27B                   | TM02 TO CPU (CTS    |        |
| 14504   |        | XA413     | 51  |        |           |     |             |      |        |       | J      | TM02SD | 01       | TM02SD  | 00   | 1                | TLD  | D4                  | 27B                   | JDB22B4 BUSS        |        |
| 03588   |        | XA413     | 52  |        | XA337     | 66  |             | 16B  | 9      |       | J      | TI30SD | 04       | JDB09B4 | 03   | 1                | TLD  | D1                  | 24A                   | TI30 TO DATA BUS    |        |
| 13642   |        | XA413     | 52  |        |           |     |             |      |        |       | J      | TI30SD | 01       | TI30SD  | 00   | 1                | TLD  | D1                  | 24A                   | JDB09B4 BUSS        |        |
| 14560   |        | XA413     | 53  |        | XA151     | 43  |             | 16B  | 9      |       | J      | TM05BQ | 01       | TM05SD  | 01   | 1                | TLD  | E3                  | 28B                   | BUSS FOR CTS DIS    |        |
| 13641   |        | XA413     | 54  |        |           |     |             |      |        |       | J      | TI30BQ | 07       | TI30SD  | 01   | 1                | TLD  | D1                  | 25A                   | BUSS FOR CTS DIS    |        |
| 16648   |        | XA413     | 55  |        | XA413     | 61  |             | 16B  | 9      |       | J      | TTSCM0 | 06       | TM05SD  | 01   | 2                | TLD  | E3                  | 29B                   |                     |        |
| 16656   |        | XA413     | 56  |        | XA413     | 42  |             | 16B  | 9      |       | J      | TTSDM0 | 05       | TI30SD  | 01   | 2                | TLD  | D1                  | 26A                   |                     |        |
| 03681   |        | XA413     | 57  |        | XA301     | 51  |             | 16B  | 9      |       | J      | TM05SD | 01       | JDB25B4 | 03   | 1                | TLD  | E3                  | 30B                   | TM05 TO CPU (CTS    |        |
| 14562   |        | XA413     | 57  |        |           |     |             |      |        |       | J      | TM05SD | 01       | TM05SD  | 00   | 1                | TLD  | E3                  | 30B                   | JDB25B4 BUSS        |        |
| 02734   |        | XA413     | 58  |        |           |     |             |      |        |       | J      | GND    | 01       |         |      |                  |      |                     | 40A                   |                     |        |
| 14571   |        | XA413     | 59  |        | XA333     | 71  |             | 16B  | 9      |       | J      | TM06BQ | 01       | TM06SD  | 01   | 1                | TLD  | E4                  | 31B                   | BUSS FOR CTS DIS    |        |
| 03675   |        | XA413     | 60  |        | XA301     | 49  |             | 16B  | 9      |       | J      | TM04SD | 01       | JDB24B4 | 03   | 1                | TLD  | E2                  | 28A                   | TM04 TO CPU (CTS    |        |
| 14550   |        | XA413     | 60  |        |           |     |             |      |        |       | J      | TM04SD | 01       | TM04SD  | 00   | 1                | TLD  | E2                  | 28A                   | JDB24B4 BUSS        |        |
| 16649   |        | XA413     | 61  |        | XA413     | 64  |             | 16B  | 9      |       | J      | TTSCM0 | 07       | TM06SD  | 01   | 2                | TLD  | E4                  | 32B                   |                     |        |
| 14549   |        | XA413     | 62  |        |           |     |             |      |        |       | J      | TM04BQ | 05       | TM04SD  | 01   | 1                | TLD  | E2                  | 29A                   | BUSS FOR CTS DIS    |        |
| 03692   |        | XA413     | 63  |        | XA249     | 38  |             | 16B  | 9      |       | J      | TM06SD | 06       | JDB26B4 | 03   | 1                | TLD  | E4                  | 33B                   | TM06 TO CPU (CTSC07 |        |
| 14576   |        | XA413     | 63  |        |           |     |             |      |        |       | J      | TM06SD | 01       | TM06SD  | 00   | 1                | TLD  | E4                  | 33B                   | JDB26B4 BUSS        |        |
| 16650   |        | XA413     | 64  |        | XA413     | 70  |             | 16B  | 9      |       | J      | TTSCM0 | 08       | TM04SD  | 01   | 2                | TLD  | E2                  | 30A                   |                     |        |
| 08791   |        | XA413     | 65  |        | XA112     | 05  |             | 18B  | 9      |       | J      | TBC3BQ | 01       | TBC3SD  | 01   | 1                | TLD  | F3                  | 34B                   | BUSS FOR CTS DISE04 |        |
| 03669   |        | XA413     | 66  |        | XA301     | 47  |             | 16B  | 9      |       | J      | TM03SD | 01       | JDB23B4 | 03   | 1                | TLD  | E1                  | 31A                   | TM03 TO CPU (CTS    |        |
| 14534   |        | XA413     | 66  |        |           |     |             |      |        |       | J      | TM03SD | 01       | TM03SD  | 00   | 1                | TLD  | E1                  | 31A                   | JDB23B4 BUSS        |        |
| 02735   |        | XA413     | 67  |        |           |     |             |      |        |       | J      | GND    | 01       |         |      |                  |      |                     |                       |                     |        |
| 14533   |        | XA413     | 68  |        |           |     |             |      |        |       | J      | TM03D0 | 07       | TM03SD  | 01   | 1                | TLD  | E1                  | 32A                   | BUSS FOR CTS DIS    |        |
| 03705   |        | XA413     | 69  |        | XA407     | 77  |             | 16B  | 9      |       | J      | TBC3SD | 01       | JDB29B4 | 03   | 1                | TLD  | F3                  | 35A                   | BYTE 03 TO CPU (    |        |
| 08799   |        | XA413     | 69  |        |           |     |             |      |        |       | J      | TBC3SD | 01       | TBC3SD  | 00   | 1                | TLD  | F3                  | 35A                   | JDB29B4 BUSS        |        |
| 16651   |        | XA413     | 70  |        |           |     |             |      |        |       | J      | TTSCM0 | 09       | TM03SD  | 01   | 2                | TLD  | E1                  | 33A                   |                     |        |
| 08783   |        | XA413     | 71  |        |           |     |             |      |        |       | J      | TBC2C0 | 05       | TBC2SD  | 01   | 1                | TLD  | F2                  | 36A                   | BUSS FOR CTS DIS    |        |
| 03699   |        | XA413     | 72  |        | XA301     | 57  |             | 16B  | 9      |       | J      | TBC2SD | 01       | JDB28B4 | 03   | 1                | TLD  | F2                  | 34A                   | BYTE 02 TO CPU (    |        |
| 08784   |        | XA413     | 72  |        |           |     |             |      |        |       | J      | TBC2SD | 01       | TBC2SD  | 00   | 1                | TLD  | F2                  | 34A                   | JDB28B4 BUSS        |        |
| 16652   |        | XA413     | 73  |        | XA413     | 79  |             | 16B  | 9      |       | J      | TTSDM0 | 01       | TBC2SD  | 01   | 2                | TLD  | F2                  | 36B                   |                     |        |
| 16655   |        | XA413     | 74  |        | XA413     | 56  |             | 16B  | 9      |       | J      | TTSDM0 | 04       | TBC3SD  | 01   | 2                | TLD  | F3                  | 35B                   |                     |        |
| 03698   |        | XA413     | 75  |        | XA414     | 75  |             | 16B  | 9      |       | J      | TBC1SD | 06       | JDB27B4 | 03   | 1                | TLD  | F1                  | 37B                   | BYTE 01 TO CPU (D01 |        |
| CONNECTOR XA413 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |        |       |        |        |          |         |      |                  |      |                     |                       |                     |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA413  
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| RECORD NUMBER     | FROM   |                                 |     |      | TO     |           |     |      | WIRE        |      |       |       | J | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | CODE | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION  | TCO NO |
|-------------------|--------|---------------------------------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---|--------|--------|----------|------|--------|------------------|------|---------------------|--------------------|---------------------|--------|
|                   | PREFIX | CONNECTOR                       | PIN | INFO | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR | IDENT |   |        |        |          |      |        |                  |      |                     |                    |                     |        |
| 08764             |        | XA413                           | 75  |      |        |           |     |      |             |      |       |       | J | TBC1SD | 01     | TBC1SD   | 00   | 1      | TLD              | F1   |                     | 37B                | JOB27B4 BUSS        |        |
| 08816             |        | XA413                           | 76  |      |        |           |     |      |             |      |       |       | J | TBC4C0 | 05     | TBC4SD   | 01   | 1      | TLD              | F4   |                     | 37A                | BUSS FOR CTS DIS    |        |
| 08750             |        | XA413                           | 77  |      | XA136  | 37        |     |      |             | 16B  | 9     |       | J | TBC1C0 | 01     | TBC1SD   | 01   | 1      | TLD              | F1   |                     | 38B                | BUSS FOR CTS DIS    |        |
| 16654             |        | XA413                           | 78  |      | XA413  | 74        |     |      |             | 16B  | 9     |       | J | TTSOM0 | 03     | TBC4SD   | 01   | 2      | TLD              | F4   |                     | 38A                |                     |        |
| 16653             |        | XA413                           | 79  |      | XA413  | 78        |     |      |             | 16B  | 9     |       | J | TTSOM0 | 02     | TBC1SD   | 01   | 2      | TLD              | F1   |                     | 39B                |                     |        |
| 03711             |        | XA413                           | 80  |      | XA407  | 71        |     |      |             | 16B  | 9     |       | P | TBC4SD | 01     | JOB30B4  | 02   | 1      | TLD              | F4   |                     | 39A                | BYTE 04 TO CPU (    |        |
| 08817             |        | XA413                           | 80  |      |        |           |     |      |             |      |       |       | J | TBC4SD | 01     | TBC4SD   | 00   | 1      | TLD              | F4   |                     | 39A                | JOB30B4 BUSS        |        |
| 08403             |        | XA414                           | 01  |      | XA435  | 45        |     |      |             | 16B  | 9     |       |   | TAR120 | 01     | TA012A   | 01   | 1      | TT3              | A2   |                     | 02B                |                     |        |
| 02736             |        | XA414                           | 02  |      |        |           |     |      |             |      |       |       |   | GND    | 01     |          |      |        | TT3              |      |                     | 01B                |                     |        |
| 16930             |        | XA414                           | 03  |      | XA310  | 72        |     |      |             | 16B  | 9     |       |   | TXAUC0 | 08     | TA012A   | 01   | 2      | TT3              | A2   |                     | 02A                |                     |        |
| 09943             |        | XA414                           | 04  |      |        |           |     |      |             |      |       |       |   | YCS0AA | 02     | YCS0AA   | 00   | 1      | TT3              | A1   |                     | 04A                |                     |        |
| 15574             |        | XA414                           | 05  |      | XA414  | 25        |     |      |             | 16B  | 9     |       |   | TR8WAA | 01     | TA012A   | 01   | 3      | TT3              | A2   |                     | 03B                |                     |        |
| 08561             |        | XA414                           | 06  |      |        |           |     |      |             |      |       |       |   | TA01BP | 07     | TC50AA   | 01   | 1      | TT3              | A1   |                     | 05A                |                     |        |
| 08574             |        | XA414                           | 07  |      | XA436  | 56        |     |      |             | 16B  | 9     |       |   | TA012A | 01     | TA012A   | 00   | 1      | TT3              | A2   |                     | 03A                | AUCT TO BIT 1 AD    |        |
| 08586             |        | XA414                           | 08  |      |        |           |     |      |             |      |       |       |   | TA02BP | 07     | TC50AA   | 01   | 2      | TT3              | A1   |                     | 06A                |                     |        |
| 19902             |        | XA414                           | 09  |      | XA437  | 59        |     |      |             | 16B  | 9     |       |   | XMMSD0 | 01     | TA013A   | 01   | 1      | TT3              | A3   |                     | 04B                |                     |        |
| 08611             |        | XA414                           | 10  |      |        |           |     |      |             |      |       |       |   | TA03BP | 07     | TC50AA   | 01   | 3      | TT3              | A1   |                     | 07A                |                     |        |
| 15584             |        | XA414                           | 11  |      |        |           |     |      |             |      |       |       |   | TR8WAO | 06     | TA013A   | 01   | 2      | TT3              | A3   |                     | 05B                |                     |        |
| 00582             |        | XA414                           | 12  |      |        |           |     |      |             |      |       |       |   | +5V    | 01     |          |      |        | TT3              |      |                     |                    |                     |        |
| 16929             |        | XA414                           | 13  |      | XA414  | 03        |     |      |             | 16B  | 9     |       |   | TXAUC0 | 07     | TA013A   | 01   | 3      | TT3              | A3   |                     | 06B                |                     |        |
| 20006             |        | XA414                           | 14  |      | XA437  | 45        |     |      |             | 16B  | 9     |       |   | XMSSD0 | 01     | TA023A   | 01   | 1      | TT3              | B2   |                     | 09A                |                     |        |
| 08577             |        | XA414                           | 15  |      |        |           |     |      |             |      |       |       |   | TA013A | 02     | TA013A   | 00   | 1      | TT3              | A3   |                     | 07B                | IOM REG ADD TO R    |        |
| 02737             |        | XA414                           | 16  |      |        |           |     |      |             |      |       |       |   | GND    | 01     |          |      |        | TT3              |      |                     | 21B                |                     |        |
| 15583             |        | XA414                           | 17  |      | XA414  | 11        |     |      |             | 16B  | 9     |       |   | TR8WAO | 05     | TA023A   | 01   | 2      | TT3              | B2   |                     | 08B                |                     |        |
| 16928             |        | XA414                           | 18  |      | XA414  | 13        |     |      |             | 16B  | 9     |       |   | TXAUC0 | 06     | TA023A   | 01   | 3      | TT3              | B2   |                     | 10A                |                     |        |
| 08602             |        | XA414                           | 19  |      |        |           |     |      |             |      |       |       |   | TA023A | 02     | TA023A   | 00   | 1      | TT3              | B2   |                     | 09B                | IOM REG, ADD TO R   |        |
| 08599             |        | XA414                           | 20  |      | XA436  | 46        |     |      |             | 16B  | 9     |       |   | TA022A | 01     | TA022A   | 00   | 1      | TT3              | B1   |                     | 11A                | AUCT TO ADD REG     |        |
| 08407             |        | XA414                           | 21  |      | XA435  | 57        |     |      |             | 16B  | 9     |       |   | TAR320 | 01     | TA032A   | 01   | 1      | TT3              | B3   |                     | 10B                |                     |        |
| 16927             |        | XA414                           | 22  |      | XA414  | 18        |     |      |             | 16B  | 9     |       |   | TXAUC0 | 05     | TA022A   | 01   | 1      | TT3              | B1   |                     | 12A                |                     |        |
| 16926             |        | XA414                           | 23  |      | XA414  | 22        |     |      |             | 16B  | 9     |       |   | TXAUC0 | 04     | TA032A   | 01   | 2      | TT3              | B3   |                     | 11B                |                     |        |
| 08406             |        | XA414                           | 24  |      |        |           |     |      |             |      |       |       |   | TAR220 | 02     | TA022A   | 01   | 2      | TT3              | B1   |                     | 13A                |                     |        |
| 15575             |        | XA414                           | 25  |      | XA414  | 26        |     |      |             | 16B  | 9     |       |   | TR8WAA | 02     | TA032A   | 01   | 3      | TT3              | B3   |                     | 12B                |                     |        |
| 15576             |        | XA414                           | 26  |      | XA437  | 35        |     |      |             | 16B  | 9     |       |   | TR8WAA | 03     | TA022A   | 01   | 3      | TT3              | B1   |                     | 14A                |                     |        |
| 08624             |        | XA414                           | 27  |      | XA436  | 49        |     |      |             | 16B  | 9     |       |   | TA032A | 01     | TA032A   | 00   | 1      | TT3              | B3   |                     | 13B                | AUCT TO BIT 3 AD    |        |
| 00583             |        | XA414                           | 28  |      |        |           |     |      |             |      |       |       |   | +5V    | 01     |          |      |        | TT3              |      |                     |                    |                     |        |
| 15733             |        | XA414                           | 29  |      | XA414  | 35        |     |      |             | 16B  | 9     |       |   | TS00A0 | 10     | TRQ1AA   | 01   | 1      | TT3              | C2   |                     | 14B                | REQUEST 0 IOM       |        |
| 15330             |        | XA414                           | 30  |      | XA415  | 38        |     |      |             | 16B  | 9     |       |   | TRQ1A0 | 02     | TRQ1AA   | 01   | 2      | TT3              | C2   |                     | 15A                |                     |        |
| 15322             |        | XA414                           | 31  |      | XA435  | 08        |     |      |             | 16B  | 9     |       |   | TRQ1AA | 01     | TRQ1AA   | 00   | 1      | TT3              | C2   |                     | 15B                | REQ 1 STATE 0       |        |
| 02738             |        | XA414                           | 32  |      |        |           |     |      |             |      |       |       |   | GND    | 01     |          |      |        | TT3              |      |                     | 27A                |                     |        |
| 15347             |        | XA414                           | 33  |      |        |           |     |      |             |      |       |       |   | TRQ2A0 | 02     | TRQ2AA   | 01   | 1      | TT3              | C3   |                     | 16B                | *                   |        |
| 17411             |        | XA414                           | 34  |      |        |           |     |      |             |      |       |       |   | WR10LA | 03     | TRQ1AA   | 01   | 3      | TT3              | C2   |                     | 16A                |                     |        |
| 15734             |        | XA414                           | 35  |      | XA414  | 54        |     |      |             | 16B  | 9     |       |   | TS00A0 | 11     | TRQ2AA   | 01   | 2      | TT3              | C3   |                     | 17B                |                     |        |
| 08627             |        | XA414                           | 36  |      |        |           |     |      |             |      |       |       |   | TA033A | 02     | TA033A   | 00   | 1      | TT3              | C1   |                     | 17A                | IOM REG, ADD TO     |        |
| 17414             |        | XA414                           | 37  |      |        |           |     |      |             |      |       |       |   | WR20LA | 03     | TRQ2AA   | 01   | 3      | TT3              | C3   |                     | 18B                |                     |        |
| 19901             |        | XA414                           | 38  |      |        |           |     |      |             |      |       |       |   | XMLSD0 | 02     | TA033A   | 01   | 1      | TT3              | C1   |                     | 18A                |                     |        |
| 15340             |        | XA414                           | 39  |      |        |           |     |      |             |      |       |       |   | TRQ2AA | 02     | TRQ2AA   | 00   | 1      | TT3              | C3   |                     | 19B                | REQ 2 STATE 0       |        |
| 15582             |        | XA414                           | 40  |      | XA414  | 17        |     |      |             | 16B  | 9     |       |   | TR8WAO | 07     | TA033A   | 01   | 2      | TT3              | C1   |                     | 19A                |                     |        |
| 14264             |        | XA414                           | 41  |      | XA405  | 75        |     |      |             | 16B  | 9     |       |   | TFIOSA | 04     | TPUSAA   | 01   | 1      | TT3              | D2   |                     | 22B                | (UPPER CPU STARTB05 |        |
| CONNECTOR (XA414) |        | CONTINUED ON THE NEXT PAGE **** |     |      |        |           |     |      |             |      |       |       |   |        |        |          |      |        |                  |      |                     |                    |                     |        |



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 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 285

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE        |      |       |         | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION   | ECO NO            |  |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------------|------|-------|---------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|----------------------|-------------------|--|
|               | PREFIX | CONNECTOR | PIN                             | PLT | PREFIX | CONNECTOR | PIN | PLT | MULTI GROUP | CODE | COLOR | IDENT   |        |        |          |             |                  |       |                     |                    |                      |                   |  |
| 16925         |        | XA414     | 42                              |     | XA414  | 23        |     |     | 16B         | 9    |       |         | TXAUC0 | 03     | TA033A   | 01          | 3                | TT3   | C1                  |                    | 20A                  | START CONTROL REG |  |
| 14903         |        | XA414     | 43                              |     | XA405  | 79        |     |     | 16B         | 9    |       | TPUSAA  | 03     | TPUSAA | 00       | 1           | TT3              | D2    |                     | 23B                |                      |                   |  |
| 02739         |        | XA414     | 44                              |     |        |           |     |     |             |      |       | GND     | 01     |        |          |             |                  | TT3   |                     |                    | 40A                  |                   |  |
| 15650         |        | XA414     | 45                              |     | XA414  | 57        |     |     | 16B         | 9    |       | TSSGCCQ | 01     | TS2ABA | 01       | 1           | TT3              | D3    |                     | 24B                |                      |                   |  |
| 15656         |        | XA414     | 46                              |     |        |           |     |     |             |      |       | TSS1AA  | 02     | TPUSAA | 01       | 2           | TT3              | D2    |                     | 21A                |                      |                   |  |
| 15642         |        | XA414     | 47                              |     | XA442  | 45        |     |     | 16B         | 9    |       | TSSGBP  | 04     | TS2ABA | 01       | 2           | TT3              | D3    |                     | 25B                |                      |                   |  |
| 13934         |        | XA414     | 48                              |     |        |           |     |     |             |      |       | TKO1BP  | 06     | TPUSAA | 01       | 3           | TT3              | D2    |                     | 22A                |                      |                   |  |
| 15633         |        | XA414     | 49                              |     | XA414  | 61        |     |     | 16B         | 9    |       | TSSGAP  | 03     | TS2ABA | 01       | 3           | TT3              | D3    |                     | 26B                |                      |                   |  |
| 15356         |        | XA414     | 50                              |     |        |           |     |     |             |      |       | TRQ3AA  | 02     | TRQ3AA | 00       | 1           | TT3              | D1    |                     | 23A                | REQ 3 STATE 0        |                   |  |
| 16270         |        | XA414     | 51                              |     | XA442  | 52        |     |     | 16B         | 9    |       | TS2ABA  | 01     | TS2ABA | 00       | 1           | TT3              | D3    |                     | 27B                | MASTER RESET TO D    |                   |  |
| 15362         |        | XA414     | 52                              |     | XA415  | 33        |     |     | 16B         | 9    |       | TRQ3AJ  | 01     | TRQ3AA | 01       | 1           | TT3              | D1    |                     | 24A                | *                    |                   |  |
| 09155         |        | XA414     | 53                              |     | XA433  | 11        |     |     | 16B         | 9    |       | TBSTOP  | 01     | RTCTEA | 01       | 1           | TT3              | E2    |                     | 28B                |                      |                   |  |
| 15735         |        | XA414     | 54                              |     |        |           |     |     |             |      |       | TS00A0  | 12     | TRQ3AA | 01       | 2           | TT3              | D1    |                     | 25A                | (8 KHZ CLOCK) (CT    |                   |  |
| 04794         |        | XA414     | 55                              |     | XA406  | 15        |     |     | 16B         | 9    |       | RTCTEA  | 01     | RTCTEA | 00       | 1           | TT3              | E2    |                     | 29B                |                      |                   |  |
| 17417         |        | XA414     | 56                              |     |        |           |     |     |             |      |       | WR30LA  | 03     | TRQ3AA | 01       | 3           | TT3              | D1    |                     | 26A                |                      |                   |  |
| 15651         |        | XA414     | 57                              |     | XA436  | 75        |     |     | 16B         | 9    |       | TSSGCCQ | 02     | TS1ABA | 01       | 1           | TT3              | E3    |                     | 30B                |                      |                   |  |
| 02740         |        | XA414     | 58                              |     |        |           |     |     |             |      |       | GND     | 01     |        |          |             |                  | TT3   |                     | 40B                |                      |                   |  |
| 15641         |        | XA414     | 59                              |     | XA414  | 47        |     |     | 16B         | 9    |       | TSSGBP  | 03     | TS1ABA | 01       | 2           | TT3              | E3    |                     | 31B                |                      |                   |  |
| 17347         |        | XA414     | 60                              |     | XA411  | 37        |     |     | 16B         | 9    |       | URTCIB4 | 01     | RTCTEA | 01       | 2           | TT3              | E2    |                     | 28A                | REAL TIME CLOCK      |                   |  |
| 15634         |        | XA414     | 61                              |     | XA436  | 79        |     |     | 16B         | 9    |       | TSSGAP  | 04     | TS1ABA | 01       | 3           | TT3              | E3    |                     | 32B                |                      |                   |  |
| 04751         |        | XA414     | 62                              |     |        |           |     |     |             |      |       | RTCN3P  | 02     | RTCTEA | 01       | 3           | TT3              | E2    |                     | 29A                |                      |                   |  |
| 16014         |        | XA414     | 63                              |     | XA439  | 64        |     |     | 16B         | 9    |       | TS1ABA  | 07     | TS1ABA | 00       | 1           | TT3              | E3    |                     | 33B                | MASTER RESET TO B05  |                   |  |
| 14134         |        | XA414     | 64                              |     | XA334  | 75        |     |     | 16B         | 9    |       | TMHS2A  | 01     | TMHS2A | 00       | 1           | TT3              | E1    |                     | 30A                | KW RESTORE - LE      |                   |  |
| 05708         |        | XA414     | 65                              |     |        |           |     |     |             |      |       | SPI028  | 33     |        | 01       | 1           | TT3              | F2    |                     | 34B                |                      | E01               |  |
| 15842         |        | XA414     | 66                              |     | XA342  | 64        |     |     | 16B         | 9    |       | TS03BP  | 01     | TMHS2A | 01       | 1           | TT3              | E1    |                     | 31A                |                      |                   |  |
| 02741         |        | XA414     | 67                              |     |        |           |     |     |             |      |       | GND     | 01     |        |          |             |                  | TT3   |                     |                    |                      |                   |  |
| 09077         |        | XA414     | 68                              |     | XA315  | 53        |     |     | 16B         | 9    |       | TBMAC0  | 01     | TMHS2A | 01       | 2           | TT3              | E1    |                     | 32A                |                      |                   |  |
| 05659         |        | XA414     | 69                              |     | XA414  | 72        |     |     | 16B         | 9    |       | SPI033  | 08     |        | 01       | 1           | TT3              | F3    |                     | 35A                |                      |                   |  |
| 09128         |        | XA414     | 70                              |     | XA345  | 55        |     |     | 16B         | 9    |       | TBRSTQ  | 01     | TMHS2A | 01       | 3           | TT3              | E1    |                     | 33A                |                      |                   |  |
| 05842         |        | XA414     | 71                              |     | XA406  | 73        |     |     | 16B         | 9    |       | SPI032  | 26     |        | 01       | 2           | TT3              | F2    |                     | 36A                |                      |                   |  |
| 05860         |        | XA414     | 72                              |     | XA421  | 71        |     |     | 16B         | 9    |       | SPI033  | 09     |        | 01       | 3           | TT3              | F2    |                     | 34A                |                      | D03               |  |
| 07938         |        | XA414     | 73                              |     |        |           |     |     |             |      |       | TCB270  | 03     | TCB270 | 00       | 1           | TT3              | F1    |                     | 36B                |                      | D01               |  |
| 07939         |        | XA414     | 74                              |     |        |           |     |     |             |      |       | SPO     | 01     |        | 00       | 1           | TT3              | F2    |                     | 35B                |                      |                   |  |
| 05706         |        | XA414     | 75                              |     | XA249  | 30        |     |     | 16B         | 9    |       | JDB27B4 | 065    | TEB270 | 01       | 1           | TT3              | F1    |                     | 37B                |                      | D01               |  |
| 05841         |        | XA414     | 76                              |     | XA414  | 71        |     |     | 16B         | 9    |       | SPI032  | 25     |        | 01       | 2           | TT3              | F3    |                     | 37A                |                      |                   |  |
| 05840         |        | XA414     | 77                              |     |        |           |     |     |             |      |       | SPI032  | 36     | TEB270 | 01       | 2           | TT3              | F1    |                     | 38B                |                      | E01               |  |
| 05707         |        | XA414     | 78                              |     | XA414  | 65        |     |     | 16B         | 9    |       | SPI028  | 32     |        | 01       | 3           | TT3              | F3    |                     | 38A                |                      |                   |  |
| 05858         |        | XA414     | 79                              |     | XA414  | 69        |     |     | 16B         | 9    |       | SPI033  | 07     |        | 01       | 3           | TT3              | F1    |                     | 39B                |                      |                   |  |
| 07940         |        | XA414     | 80                              |     |        |           |     |     |             |      |       | SPO     | 01     |        | 00       | 1           | TT3              | F3    |                     | 39A                |                      |                   |  |
| 10689         |        | XA415     | 01                              |     |        |           |     |     |             |      |       | TDDISA  | 02     | TDDISA | 00       | 1           | TQ2              | A2    |                     | 02B                |                      |                   |  |
| 02742         |        | XA415     | 02                              |     |        |           |     |     |             |      |       | GND     | 01     |        |          |             |                  | TQ2   |                     | 01A                |                      |                   |  |
| 09936         |        | XA415     | 03                              |     | XA213  | 54        |     |     | 16B         | 9    |       | KWML10  | 005    | TI333A | 01       | 1           | TQ2              | A3    |                     | 02A                |                      | D01               |  |
| 10690         |        | XA415     | 04                              |     | XA306  | 04        |     |     | 16B         | 9    |       | TDDISO  | 01     | TDDISA | 01       | 1           | TQ2              | A2    |                     | 04A                |                      |                   |  |
| 05829         |        | XA415     | 05                              |     | XA415  | 19        |     |     | 16B         | 9    |       | SPI032  | 13     | TDDISA | 01       | 2           | TQ2              | A2    |                     | 03B                |                      |                   |  |
| 12522         |        | XA415     | 06                              |     |        |           |     |     |             |      |       | TENACA  | 08     | TENACA | 00       | 1           | TQ2              | A1    |                     | 05A                | I/O ENABLE           |                   |  |
| 17405         |        | XA415     | 07                              |     | XA423  | 70        |     |     | 16B         | 9    |       | TI3110  | 005    | TI333A | 01       | 2           | TQ2              | A3    |                     | 03A                |                      | D01               |  |
| 09120         |        | XA415     | 08                              |     | XA340  | 62        |     |     | 16B         | 9    |       | TBRSTP  | 01     | TENACA | 01       | 1           | TQ2              | A1    |                     | 06A                |                      |                   |  |
| 09890         |        | XA415     | 09                              |     |        |           |     |     |             |      |       | TI333A  | 01     | TI333A | 00       | 1           | TQ2              | A3    |                     | 04B                | IOM ADRS & SW IOM008 |                   |  |
| CONNECTOR     |        | XA415     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |             |      |       |         |        |        |          |             |                  |       |                     |                    |                      |                   |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA415  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 286

| RECORD NUMBER                                   | FROM   |           |     |         | TO     |           |     |         | WIRE        |      |       |       | SIGNAL   | SFQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|---------|--------|-----------|-----|---------|-------------|------|-------|-------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE NO | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |       |                     |                    |                    |        |
| 12532   |        | XA415     | 10  |         | XA305  | 68        |     |         | 168         | 9    |       |       | TENBBQ   | 02     | TENACA   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 16016   |        | XA415     | 11  |         | XA206  | 69        |     |         | 168         | 9    |       |       | TS1T30   | 02     | TRCR2A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00584   |        | XA415     | 12  |         |        |           |     |         |             |      |       |       | +5V      | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 13388   |        | XA415     | 13  |         | XA416  | 17        |     |         | 168         | 9    |       |       | TINTADX4 | 03     | TRCR2A   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 16643   |        | XA415     | 14  |         | XA413  | 36        |     |         | 168         | 9    |       |       | TTSCM0   | 09     | TTSCM0   | 00   | 1      | TQ2              | B2    |                     | 09A                | CONTROL TERM DAT   |        |
| 15245   |        | XA415     | 15  |         |        |           |     |         |             |      |       |       | TRCR2A   | 09     | TRCR2A   | 00   | 1      | TQ2              | A4    |                     | 07B                | CLR TR00 BOOTSTRA  |        |
| 02743   |        | XA415     | 16  |         |        |           |     |         |             |      |       |       | GND      | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 13292   |        | XA415     | 17  |         | XA415  | 18        |     |         | 168         | 9    |       |       | TICTAA   | 03     | TTSDM0   | 01   | 1      | TQ2              | B3    |                     | 08B                | FOR BYTE COUNTER   |        |
| 13293   |        | XA415     | 18  |         | XA415  | 24        |     |         | 168         | 9    |       |       | TICTAA   | 04     | TTSCM0   | 01   | 1      | TQ2              | B2    |                     | 10A                | FOR M COUNTER      |        |
| 05830   |        | XA415     | 19  |         | XA415  | 20        |     |         | 168         | 9    |       |       | SPI032   | 14     | TTSDM0   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 05831   |        | XA415     | 20  |         | XA415  | 26        |     |         | 168         | 9    |       |       | SPI032   | 15     | TTSCM0   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 16660   |        | XA415     | 21  |         |        |           |     |         |             |      |       |       | TTSDM0   | 09     | TTSDM0   | 00   | 1      | TQ2              | B3    |                     | 10B                | CONTROL TERM DAT   |        |
| 16642   |        | XA415     | 22  |         |        |           |     |         |             |      |       |       | TTSDM0   | 09     | TTSDM0   | 00   | 1      | TQ2              | B1    |                     | 12A                | CONTROL TERM DAT   |        |
| 08541   |        | XA415     | 23  |         | XA439  | 27        |     |         | 168         | 9    |       |       | TA00BQ   | 03     | TCSXM0   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 13294   |        | XA415     | 24  |         |        |           |     |         |             |      |       |       | TICTAA   | 05     | TTSDM0   | 01   | 1      | TQ2              | B1    |                     | 13A                | FOR TR REGISTER    |        |
| 05833   |        | XA415     | 25  |         | XA415  | 43        |     |         | 168         | 9    |       |       | SPI032   | 17     | TCSXM0   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 05832   |        | XA415     | 26  |         | XA415  | 25        |     |         | 168         | 9    |       |       | SPI032   | 16     | TTSDM0   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 09940   |        | XA415     | 27  |         | XA426  | 47        |     |         | 168         | 9    |       |       | TCSXM0   | 02     | TCSXM0   | 00   | 1      | TQ2              | B4    |                     | 13B                |                    |        |
| 00585   |        | XA415     | 28  |         |        |           |     |         |             |      |       |       | +5V      | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 15366   |        | XA415     | 29  |         | XA426  | 34        |     |         | 168         | 9    |       |       | TRQ3XA   | 01     | TRQ3A0   | 01   | 1      | TQ2              | C3    |                     | 14B                | REQ 3              |        |
| 15346   |        | XA415     | 30  |         | XA414  | 33        |     |         | 168         | 9    |       |       | TRQ2A0   | 01     | TRQ2A0   | 00   | 1      | TQ2              | C2    |                     | 15A                | REQ 2              |        |
| 19674   |        | XA415     | 31  |         | XA518  | 53        |     |         | 168         | 9    |       |       | XIRQ3A   | 01     | TRQ3A0   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 02744   |        | XA415     | 32  |         |        |           |     |         |             |      |       |       | GND      | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 15363   |        | XA415     | 33  |         |        |           |     |         |             |      |       |       | TRQ3A0   | 02     | TRQ3A0   | 00   | 1      | TQ2              | C3    |                     | 16B                | REQ 3              |        |
| 15354   |        | XA415     | 34  |         |        |           |     |         |             |      |       |       | TRQ2XA   | 02     | TRQ2A0   | 01   | 1      | TQ2              | C2    |                     | 16A                | REQ 2              |        |
| 15383   |        | XA415     | 35  |         |        |           |     |         |             |      |       |       | TRQ4XA   | 02     | TRQ4A0   | 01   | 1      | TQ2              | C4    |                     | 17B                | REQ 4              |        |
| 15352   |        | XA415     | 36  |         |        |           |     |         |             |      |       |       | TRQ2BB4  | 03     | TRQ2A0   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 15379   |        | XA415     | 37  |         | XA430  | 23        |     |         | 168         | 9    |       |       | TRQ4BB4  | 01     | TRQ4A0   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 15331   |        | XA415     | 38  |         |        |           |     |         |             |      |       |       | TRQ1A0   | 03     | TRQ1A0   | 00   | 1      | TQ2              | C1    |                     | 18A                | REQ 1              |        |
| 15375   |        | XA415     | 39  |         | XA434  | 17        |     |         | 168         | 9    |       |       | TRQ4A0   | 01     | TRQ4A0   | 00   | 1      | TQ2              | C4    |                     | 19B                | REQ 4              |        |
| 15338   |        | XA415     | 40  |         |        |           |     |         |             |      |       |       | TRQ1XA   | 02     | TRQ1A0   | 01   | 1      | TQ2              | C1    |                     | 19A                | REQ 1              |        |
| 15427   |        | XA415     | 41  |         | XA426  | 54        |     |         | 168         | 9    |       |       | TRQ7XA   | 01     | TRQ7A0   | 01   | 1      | TQ2              | D3    |                     | 22B                | REQ 7              |        |
| 15335   |        | XA415     | 42  |         | XA522  | 46        |     |         | 168         | 9    |       |       | TRQ1BB4  | 02     | TRQ1A0   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 05834   |        | XA415     | 43  |         | XA412  | 46        |     |         | 168         | 9    |       |       | SPI032   | 18     | TRQ7A0   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02745   |        | XA415     | 44  |         |        |           |     |         |             |      |       |       | GND      | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 15423   |        | XA415     | 45  |         | XA445  | 33        |     |         | 168         | 9    |       |       | TRQ7A0   | 01     | TRQ7A0   | 00   | 1      | TQ2              | D3    |                     | 24B                | REQ 7              |        |
| 15407   |        | XA415     | 46  |         | XA436  | 01        |     |         | 168         | 9    |       |       | TRQ6A0   | 01     | TRQ6A0   | 00   | 1      | TQ2              | D2    |                     | 21A                | REQ 6              |        |
| 04665   |        | XA415     | 47  |         | XA407  | 43        |     |         | 168         | 9    |       |       | RENS00   | 02     | RENRI A  | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 15415   |        | XA415     | 48  |         |        |           |     |         |             |      |       |       | TRQ6XA   | 02     | TRQ6A0   | 01   | 1      | TQ2              | D2    |                     | 22A                | REQ 6              |        |
| 11037   |        | XA415     | 49  |         | XA511  | 41        |     |         | 168         | 9    |       |       | TDL4A0   | 02     | RENRI A  | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 15413   |        | XA415     | 50  |         |        |           |     |         |             |      |       |       | TRQ6BB4  | 03     | TRQ6A0   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 04657   |        | XA415     | 51  |         |        |           |     |         |             |      |       |       | RENRI A  | 02     | RENRI A  | 00   | 1      | TQ2              | D4    |                     | 27B                | (ENABLE)(CH SEL    |        |
| 15391   |        | XA415     | 52  |         | XA434  | 23        |     |         | 168         | 9    |       |       | TRQ5A0   | 01     | TRQ5A0   | 00   | 1      | TQ2              | D1    |                     | 24A                | REQ 5              |        |
| 09232   |        | XA415     | 53  |         | XA415  | 59        |     |         | 168         | 9    |       |       | TBS020   | 02     | TRC02A   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 15399   |        | XA415     | 54  |         |        |           |     |         |             |      |       |       | TRQ5XA   | 02     | TRQ5A0   | 01   | 1      | TQ2              | D1    |                     | 25A                | REQ 5              |        |
| 17360   |        | XA415     | 55  |         | XA425  | 30        |     |         | 168         | 9    |       |       | WKB12A   | 02     | TRC02A   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 15395   |        | XA415     | 56  |         | XA430  | 25        |     |         | 168         | 9    |       |       | TRQ5BB4  | 01     | TRQ5A0   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 15251   |        | XA415     | 57  |         |        |           |     |         |             |      |       |       | TRC02A   | 02     | TRC02A   | 00   | 1      | TQ2              | E3    |                     | 30B                | CLR TR02 BST CH12* |        |
| 02746   |        | XA415     | 58  |         |        |           |     |         |             |      |       |       | GND      | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 09233   |        | XA415     | 59  |         | XA415  | 62        |     |         | 168         | 9    |       |       | TBS020   | 03     | TRC03A   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| CONNECTOR XA415 CONTINUED ON THE NEXT PAGE **** |        |           |     |         |        |           |     |         |             |      |       |       |          |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA415  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 287

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE   |             |      |         | SIGNAL | SEC NO      | EQUATION | TRM        | FACTOR | CMT OR CH.P. TYPE | LOAD OF POWER PLANE | TEST POINTS (LAND) SP | SIGNAL DESCRIPTION | ECO NO             |
|---|--------|-----------|-----|--------|-----------|-----|--------|-------------|------|---------|--------|-------------|----------|------------|--------|-------------------|---------------------|-----------------------|--------------------|--------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH. FC | MULTI-GROUP | CODE | COL. IN |        |             |          |            |        |                   |                     |                       |                    |                    |
| 15248   |        | XA415     | 60  |        | XA437     | 07  |        |             | 168  | 9       |        | TRC01A      | 01       | TRC01A     | 00     | 1                 | TQ2                 | E2                    | 28A                | CLR TR01 BST CH11* |
| 17364   |        | XA415     | 61  |        | XA318     | 74  |        |             | 168  | 9       |        | WKB13A      | 03       | TRC03A     | 01     | 2                 | TQ2                 | E4                    | 32B                |                    |
| 09234   |        | XA415     | 62  |        | XA415     | 68  |        |             | 168  | 9       |        | TBS020      | 04       | TRC01A     | 01     | 1                 | TQ2                 | E2                    | 29A                |                    |
| 15252   |        | XA415     | 63  |        | XA412     | 07  |        |             | 168  | 9       |        | TRC03A      | 01       | TRC03A     | 00     | 1                 | TQ2                 | E4                    | 33B                | CLP TR03 BST CH13* |
| 17357   |        | XA415     | 64  |        | XA318     | 40  |        |             | 168  | 9       |        | WKB11A      | 02       | TRC01A     | 01     | 2                 | TQ2                 | E2                    | 30A                |                    |
| 09236   |        | XA415     | 65  |        | XA415     | 71  |        |             | 168  | 9       |        | TBS020      | 06       | TRC06A     | 01     | 1                 | TQ2                 | F3                    | 34B                |                    |
| 15247   |        | XA415     | 66  |        |           |     |        |             |      |         |        | TRC00A      | 02       | TRC00A     | 00     | 1                 | TQ2                 | E1                    | 31A                | CLR TR00 BST CH10* |
| 02747   |        | XA415     | 67  |        |           |     |        |             |      |         |        | GND         | 01       |            |        |                   | TQ2                 |                       | 40A                |                    |
| 09235   |        | XA415     | 68  |        | XA415     | 65  |        |             | 168  | 9       |        | TBS020      | 05       | TRC00A     | 01     | 1                 | TQ2                 | E1                    | 32A                |                    |
| 15259   |        | XA415     | 69  |        |           |     |        |             |      |         |        | TRC06A      | 02       | TRC06A     | 00     | 1                 | TQ2                 | F3                    | 35A                | CLR TR06 BST CH16* |
| 17354   |        | XA415     | 70  |        | XA318     | 39  |        |             | 168  | 9       |        | WKB10A      | 01       | TRC00A     | 01     | 2                 | TQ2                 | E1                    | 33A                |                    |
| 09237   |        | XA415     | 71  |        | XA415     | 77  |        |             | 168  | 9       |        | TBS020      | 07       | TRC05A     | 01     | 1                 | TQ2                 | F2                    | 36A                |                    |
| 15256   |        | XA415     | 72  |        | XA412     | 20  |        |             | 168  | 9       |        | TRC05A      | 01       | TRC05A     | 00     | 1                 | TQ2                 | F2                    | 34A                | CLR TR05 BST CH15* |
| 17371   |        | XA415     | 73  |        | XA331     | 29  |        |             | 168  | 9       |        | WKB15A      | 03       | TRC05A     | 01     | 2                 | TQ2                 | F2                    | 36R                |                    |
| 17374   |        | XA415     | 74  |        | XA425     | 54  |        |             | 168  | 9       |        | WKB16A      | 02       | TRC06A     | 01     | 2                 | TQ2                 | F3                    | 35B                |                    |
| 15255   |        | XA415     | 75  |        |           |     |        |             |      |         |        | TRC04A      | 02       | TRC04A     | 00     | 1                 | TQ2                 | F1                    | 37B                | CLR TR04 BST CH14* |
| 09239   |        | XA415     | 76  |        |           |     |        |             |      |         |        | TBS020      | 09       | TRC07A     | 01     | 1                 | TQ2                 | F4                    | 37A                |                    |
| 09238   |        | XA415     | 77  |        | XA415     | 76  |        |             | 168  | 9       |        | TBS020      | 08       | TRC04A     | 01     | 1                 | TQ2                 | F1                    | 38B                |                    |
| 17380   |        | XA415     | 78  |        | XA331     | 38  |        |             | 168  | 9       |        | WKB17A      | 04       | TRC07A     | 01     | 2                 | TQ2                 | F4                    | 38A                |                    |
| 17367   |        | XA415     | 79  |        | XA331     | 26  |        |             | 168  | 9       |        | WKB14A      | 02       | TRC04A     | 01     | 2                 | TQ2                 | F1                    | 39B                |                    |
| 15260   |        | XA415     | 80  |        | XA412     | 36  |        |             | 168  | 9       |        | TRC07A      | 01       | TRC07A     | 00     | 1                 | TQ2                 | F4                    | 39A                | CLR TR07 BST CH17* |
| 09925   |        | XA416     | 01  |        | XA411     | 23  |        |             | 168  | 9       |        | TCSXADX4    | 01       | TCSXADX403 | 01     | 1                 | DCF                 | A7                    | 02A                | EXT SLC IOX OR IO  |
| 09924   |        | XA416     | 02  |        |           |     |        |             |      |         |        | TCSXADG4    | 02       |            |        |                   | DCF                 |                       | 01A                |                    |
| 21253   |        | XA416     | 02  |        |           |     |        |             |      |         |        | GND         | 01       |            |        |                   | DCF                 |                       | 01A                |                    |
| 20409   |        | XA416     | 03  |        |           |     |        |             |      |         | M      | TCSXA0X     | 01       | TCSXA0X    | 03     | 1                 | DCF                 | A8                    | 03A                |                    |
| 09939   |        | XA416     | 04  |        | XA415     | 27  |        |             | 168  | 9       |        | TCSXM0      | 01       | TCSXA0X    | 01     | 1                 | DCF                 | A8                    | 04A                |                    |
| 10022   |        | XA416     | 05  |        | XA302     | 52  |        | AK          | 1EB  | 0       |        | TCS7ADG4    | 01       |            |        |                   | DCF                 |                       |                    |                    |
| 10713   |        | XA416     | 06  |        | XA417     | 06  |        |             | 168  | 9       |        | TDGNDA      | 08       | TCS7ADX401 | 01     | 1                 | DCF                 | A1                    | 05A                |                    |
| 20442   |        | XA416     | 06  |        |           |     |        |             |      |         | M      | TDGNDA      | 01       | TINTADX401 | 01     | 1                 | DCF                 | A3                    | 05A                |                    |
| 20443   |        | XA416     | 06  |        |           |     |        |             |      |         | M      | TDGNDA      | 01       | TCSXADX401 | 01     | 1                 | DCF                 | A7                    | 05A                |                    |
| 20444   |        | XA416     | 06  |        |           |     |        |             |      |         | M      | TDGNDA      | 01       | TCSMADX401 | 01     | 1                 | DCF                 | A5                    | 05A                |                    |
| 10026   |        | XA416     | 07  |        | XA302     | 51  |        | AK          | 1EB  | 9       |        | TCS7ADX4005 | 05       | TCS7ADX400 | 01     | 1                 | DCF                 | A1                    | 02B                | EXT CHANNEL SELEC  |
| 09935   |        | XA416     | 08  |        | XA438     | 05  |        |             | 168  | 9       |        | TCSXMA      | 08       | TCSMA0X    | 01     | 1                 | DCF                 | A6                    | 06A                |                    |
| 20417   |        | XA416     | 08  |        |           |     |        |             |      |         | M      | TCS7A0X     | 01       | TCS7A0X    | 00     | 1                 | DCF                 | A2                    | 03B                |                    |
| 20408   |        | XA416     | 10  |        |           |     |        |             |      |         | M      | TCSMA0X     | 01       | TCSMA0X    | 00     | 1                 | DCF                 | A6                    | 07A                |                    |
| 10027   |        | XA416     | 11  |        | XA428     | 53  |        |             | 168  | 9       |        | TCS7A0      | 01       | TCS7A0X    | 01     | 1                 | DCF                 | A2                    | 04B                |                    |
| 00586   |        | XA416     | 12  |        |           |     |        |             |      |         |        | +5V         | 01       |            |        |                   | DCF                 |                       | 08A                |                    |
| 13403   |        | XA416     | 13  |        | XA205     | 49  |        |             | 168  | 9       |        | TINTRO      | 02       | TINTA0X    | 01     | 1                 | DCF                 | A4                    | 05B                |                    |
| 09897   |        | XA416     | 14  |        | XA411     | 08  |        |             | 168  | 9       |        | TCSMADX4    | 01       | TCSMADX400 | 01     | 1                 | DCF                 | A5                    | 08B                | EXT SLC IOM        |
| 20498   |        | XA416     | 15  |        |           |     |        |             |      |         | M      | TINTA0X     | 01       | TINTA0X    | 00     | 1                 | DCF                 | A4                    | 06B                |                    |
| 20840   |        | XA416     | 16  |        |           |     |        |             |      |         |        | TCSMADG4    | 02       |            |        |                   | DCF                 |                       |                    |                    |
| 21336   |        | XA416     | 16  |        |           |     |        |             |      |         |        | GND         |          |            |        |                   | DCF                 |                       |                    | A01                |
| 13389   |        | XA416     | 17  |        | XA302     | 25  |        | BH          | 1EB  | 9       |        | TINTADX4    | 04       | TINTADX400 | 01     | 1                 | DCF                 | A3                    | 07B                | INTERROGATE EXT    |
| 01398   |        | XA416     | 18  |        |           |     |        |             |      |         |        | DNW         | 01       |            |        |                   | DCF                 |                       |                    |                    |
| 13384   |        | XA416     | 19  |        | XA302     | 26  |        | BH          | 1EB  | 0       |        | TINTADG4    | 01       |            |        |                   | DCF                 |                       |                    |                    |
| 01399   |        | XA416     | 20  |        |           |     |        |             |      |         |        | DNW         | 01       |            |        |                   | DCF                 |                       |                    |                    |
| 03392   |        | XA416     | 21  |        |           |     |        |             |      |         |        | SPP         | 01       |            |        |                   | DCF                 |                       |                    |                    |
| 01400   |        | XA416     | 22  |        |           |     |        |             |      |         |        | DNW         | 01       |            |        |                   | DCF                 |                       |                    |                    |
| CONNECTOR XA416 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |        |             |      |         |        |             |          |            |        |                   |                     |                       |                    |                    |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA416  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 288

| RECORD NUMBER                                   | FROM   |           |     | TO  |           |     | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION   | TERM | FACTOR | CKT OR CHIP TYPE | LOAD OR POWER PLANT | TEST POINTS | SIGNIF. DESCRIPTION | TCO NO             |
|---|--------|-----------|-----|-----|-----------|-----|-------------|------|-------|-------|----------|--------|------------|------|--------|------------------|---------------------|-------------|---------------------|--------------------|
|   | PREFIX | CONNECTOR | PIN | PIN | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |          |        |            |      |        |                  |                     |             |                     |                    |
| 07941   |        | XA416     | 23  |     |           |     |             |      |       |       | SPO      | 01     |            |      | 00     | 1                | DCF                 | B7          | 10A                 |                    |
| 01401   |        | XA416     | 24  |     |           |     |             |      |       |       | DNW      | 01     |            |      |        |                  | DCF                 |             |                     |                    |
| 13311   |        | XA416     | 25  |     |           |     |             |      |       |       | TINDADG4 | 02     |            |      |        |                  | DCF                 |             |                     |                    |
| 01402   |        | XA416     | 26  |     |           |     |             |      |       |       | DNW      | 01     |            |      |        |                  | DCF                 |             |                     |                    |
| 13312   |        | XA416     | 27  |     | XA429     | 75  |             |      | 16B   | 9     | TINDADX4 | 01     | TINDADX400 | 1    |        |                  | DCF                 | B1          | 10B                 | 805                |
| 00587   |        | XA416     | 28  |     |           |     |             |      |       |       | +5V      | 01     |            |      |        |                  | DCF                 |             | 21B                 |                    |
| 13319   |        | XA416     | 29  |     | XA426     | 62  |             |      | 16B   | 9     | TINDAOX  | 01     | TINDAOX    | 00   | 1      |                  | DCF                 | B2          | 11B                 | EXT INDICATOR REC  |
| 07942   |        | XA416     | 30  |     |           |     |             |      |       |       | SPO      | 01     |            |      |        |                  | DCF                 | B8          | 11A                 |                    |
| 05852   |        | XA416     | 31  |     | XA412     | 48  |             |      | 16B   | 9     | SPI033   | 01     | TINDAOX    | 01   | 1      |                  | DCF                 | B2          | 12B                 |                    |
| 02748   |        | XA416     | 32  |     |           |     |             |      |       |       | GND      | 01     |            |      |        |                  | DCF                 |             |                     |                    |
| 05618   |        | XA416     | 33  |     | XA412     | 50  |             |      | 16B   | 9     | SPI026   | 10     | TBRSAOX    | 01   | 1      |                  | DCF                 | B4          | 13B                 |                    |
| 05052   |        | XA416     | 34  |     |           |     |             |      |       |       | SPI007   | 14     |            |      |        |                  | DCF                 | B8          | 12A                 |                    |
| 09119   |        | XA416     | 35  |     |           |     |             |      |       |       | TBRSAOX  | 03     | TBRSAOX    | 00   | 1      |                  | DCF                 | B4          | 14B                 | EXT BURST REC      |
| 05828   |        | XA416     | 36  |     | XA415     | 05  |             |      | 16B   | 9     | SPI032   | 12     | TINDADX401 | 1    |        |                  | DCF                 | B1          | 13A                 | 001                |
| 20343   |        | XA416     | 36  |     |           |     |             |      |       |       | SPI032   | 01     | TD12ADX401 | 1    |        |                  | DCF                 | B5          | 13A                 |                    |
| 20344   |        | XA416     | 36  |     |           |     |             |      |       |       | SPI032   | 01     | TBRSAOX401 | 1    |        |                  | DCF                 | B3          | 13A                 |                    |
| 09116   |        | XA416     | 37  |     | XA429     | 71  |             |      | 16B   | 9     | TBRSAOX4 | 02     | TBRSAOX400 | 1    |        |                  | DCF                 | B3          | 15B                 | 805                |
| 05038   |        | XA416     | 38  |     | XA213     | 33  |             |      | 16B   | 9     | SPI006   | 15     | TD12AOX    | 01   | 1      |                  | DCF                 | B6          | 14A                 | 001                |
| 09112   |        | XA416     | 39  | 3   | XA303     | 54  | 3           |      | 16B   | 9     | TBRSDG4  | 01     |            |      |        |                  | DCF                 |             |                     |                    |
| 10814   |        | XA416     | 40  |     | XA426     | 05  |             |      | 16B   | 9     | TD12AOX  | 01     | TD12AOX    | 00   | 1      |                  | DCF                 | B6          | 15A                 | EXT DATA INPUT RE  |
| 10808   |        | XA416     | 41  |     | XA303     | 09  |             | AP   | 1EB   | 9     | TD12ADX4 | 02     | TD12ADX400 | 1    |        |                  | DCF                 | B5          | 16A                 |                    |
| 10805   |        | XA416     | 42  |     | XA303     | 10  |             | AP   | 1EB   | 0     | TD12ADG4 | 01     |            |      |        |                  | DCF                 |             | 20B                 |                    |
| 11980   |        | XA416     | 43  |     |           |     |             |      |       |       | TD19SDX  | 01     | TD19SDX    | 00   | 1      |                  | DCF                 | C7          | 25A                 | Y119CB4 BUSS       |
| 20126   |        | XA416     | 43  |     | XA404     | 41  |             | DC   | 1EB   | 9     | TD19SDX  | 02     | Y119CB4    | 01   | 1      |                  | DCF                 | C7          | 25A                 | MEM DATA D/R BIT19 |
| 20129   |        | XA416     | 44  |     |           |     |             |      |       |       | Y119CG   | 02     |            |      |        |                  | DCF                 |             |                     |                    |
| 21254   |        | XA416     | 44  |     |           |     |             |      |       |       | GND      | 01     |            |      |        |                  | DCF                 |             |                     |                    |
| 20114   |        | XA416     | 45  |     |           |     |             |      |       |       | Y116CG   | 02     |            |      |        |                  | DCF                 |             | 27A                 |                    |
| 11873   |        | XA416     | 46  |     |           |     |             |      |       |       | TD16SDX  | 01     | TD16SDX    | 00   | 1      |                  | DCF                 | C1          | 25B                 | Y116CB4 BUSS       |
| 20111   |        | XA416     | 46  |     | XA404     | 35  |             | CV   | 1EB   | 9     | TD16SDX  | 02     | Y116CB4    | 01   | 1      |                  | DCF                 | C1          | 25B                 | MEM DATA D/R BIT16 |
| 11874   |        | XA416     | 47  |     | XA422     | 70  |             |      | 16B   | 9     | TD16SOX  | 01     | TD16SOX    | 00   | 1      |                  | DCF                 | C2          | 26B                 |                    |
| 11981   |        | XA416     | 48  |     | XA422     | 61  |             |      | 16B   | 9     | TD19SOX  | 01     | TD19SOX    | 00   | 1      |                  | DCF                 | C8          | 26A                 |                    |
| 11866   |        | XA416     | 49  |     | XA211     | 42  |             |      | 16B   | 9     | TD16CO   | 01     | TD16SOX    | 01   | 1      |                  | DCF                 | C2          | 27B                 |                    |
| 11974   |        | XA416     | 50  |     | XA211     | 43  |             |      | 16B   | 9     | TD19CO   | 01     | TD19SOX    | 01   | 1      |                  | DCF                 | C8          | 28A                 |                    |
| 11902   |        | XA416     | 51  |     | XA407     | 13  |             |      | 16B   | 9     | TD17CO   | 01     | TD17SOX    | 01   | 1      |                  | DCF                 | C4          | 28B                 |                    |
| 10625   |        | XA416     | 52  |     | XA416     | 72  |             |      | 16B   | 9     | TDCBAA   | 06     | TD16SOX    | 01   | 1      |                  | DCF                 | C1          | 29A                 |                    |
| 20418   |        | XA416     | 52  |     |           |     |             |      |       |       | TDCBAA   | 01     | TD18SOX    | 01   | 1      |                  | DCF                 | C5          | 29A                 |                    |
| 20419   |        | XA416     | 52  |     |           |     |             |      |       |       | TDCBAA   | 01     | TD17SOX    | 01   | 1      |                  | DCF                 | C3          | 29A                 |                    |
| 20420   |        | XA416     | 52  |     |           |     |             |      |       |       | TDCBAA   | 01     | TD19SOX    | 01   | 1      |                  | DCF                 | C7          | 29A                 |                    |
| 20119   |        | XA416     | 53  |     |           |     |             |      |       |       | Y117CG   | 02     |            |      |        |                  | DCF                 |             |                     |                    |
| 11940   |        | XA416     | 54  |     | XA321     | 54  |             |      | 16B   | 9     | TD18CO   | 02     | TD18SOX    | 01   | 1      |                  | DCF                 | C6          | 30A                 |                    |
| 11912   |        | XA416     | 55  |     |           |     |             |      |       |       | TD17SDX  | 01     | TD17SDX    | 00   | 1      |                  | DCF                 | C3          | 30B                 | Y117CB4 BUSS       |
| 20116   |        | XA416     | 55  |     | XA404     | 37  |             | DA   | 1EB   | 9     | TD17SDX  | 02     | Y117CB4    | 01   | 1      |                  | DCF                 | C3          | 30B                 | MEM DATA D/R BIT17 |
| 11913   |        | XA416     | 56  |     | XA422     | 64  |             |      | 16B   | 9     | TD17SOX  | 01     | TD17SOX    | 00   | 1      |                  | DCF                 | C4          | 29B                 |                    |
| 11949   |        | XA416     | 57  |     | XA422     | 55  |             |      | 16B   | 9     | TD18SOX  | 01     | TD18SOX    | 00   | 1      |                  | DCF                 | C6          | 31A                 |                    |
| 20124   |        | XA416     | 58  |     |           |     |             |      |       |       | Y118CG   | 02     |            |      |        |                  | DCF                 |             |                     |                    |
| 21255   |        | XA416     | 58  |     |           |     |             |      |       |       | GND      | 01     |            |      |        |                  | DCF                 |             |                     |                    |
| 20149   |        | XA416     | 59  |     |           |     |             |      |       |       | Y123CG   | 02     |            |      |        |                  | DCF                 |             |                     |                    |
| 11948   |        | XA416     | 60  |     |           |     |             |      |       |       | TD18SDX  | 01     | TD18SDX    | 00   | 1      |                  | DCF                 | C5          | 31B                 | Y118CB4 BUSS       |
| 20121   |        | XA416     | 60  |     | XA404     | 39  |             | DB   | 1EB   | 9     | TD18SDX  | 02     | Y118CB4    | 01   | 1      |                  | DCF                 | C5          | 31B                 | MEM DATA D/R BIT18 |
| 12118   |        | XA416     | 61  |     |           |     |             |      |       |       | TD23SDX  | 01     | TD23SDX    | 00   | 1      |                  | DCF                 | D7          | 33A                 | Y123CB4 BUSS       |
| CONNECTOR XA416 CONTINUED ON THE NEXT PAGE **** |        |           |     |     |           |     |             |      |       |       |          |        |            |      |        |                  |                     |             |                     |                    |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA416  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 289

| RECORD NUMBER | FROM   |                                 |     | SH FTG | TO     |           |     | MULTI GROUP | WIRE |      |       | PFC INST | MISC           | SIGNAL   | SEQ NO   | EQUATION | TERM     | FACTOR | CKT OP CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS        | SIGNAL DESCRIPTION | ECO NO            |
|---------------|--------|---------------------------------|-----|--------|--------|-----------|-----|-------------|------|------|-------|----------|----------------|----------|----------|----------|----------|--------|------------------|-------|---------------------|--------------------|--------------------|-------------------|
|               | PREFIX | CONNECTOR                       | PIN |        | PREFIX | CONNECTOR | PIN |             | CODE | COLO | IDENT |          |                |          |          |          |          |        |                  |       |                     |                    |                    |                   |
| 20146         |        | XA416                           | 61  |        |        |           |     |             |      |      |       |          |                |          |          |          |          |        |                  |       |                     |                    |                    |                   |
| 01403         |        | XA416                           | 62  |        | XA404  | 49        |     | DG          | 1EB  | 9    |       | P        | TD23SDX<br>DNW | 02       | YI23CB4  | 01       | 1        | OCF    | D7               |       | 33A                 | MEM DATA D/R BIT23 |                    |                   |
| 01404         |        | XA416                           | 63  |        |        |           |     |             |      |      |       |          | DNW            | 01       |          |          |          |        |                  |       |                     |                    |                    |                   |
| 01405         |        | XA416                           | 64  |        |        |           |     |             |      |      |       |          | DNW            | 01       |          |          |          |        |                  |       |                     |                    |                    |                   |
| 12011         |        | XA416                           | 65  |        |        |           |     |             |      |      |       |          | J              | TD23SDX  | 01       | TD20SDX  | 00       | 1      | OCF              | D1    |                     | 32B                | YI20CB4 BUSS       |                   |
| 20131         |        | XA416                           | 65  |        | XA404  | 43        |     | DD          | 1EB  | 9    |       | P        | TD20SDX        | 02       | YI23CB4  | 01       | 1        | OCF    | D1               |       | 32B                 | MEM DATA D/R BIT20 |                    |                   |
| 01406         |        | XA416                           | 66  |        |        |           |     |             |      |      |       |          | DNW            | 01       |          |          |          |        |                  |       |                     |                    |                    |                   |
| 20134         |        | XA416                           | 67  |        |        |           |     |             |      |      |       |          | YI23CG         | 02       |          |          |          |        |                  |       |                     |                    |                    |                   |
| 21256         |        | XA416                           | 67  |        |        |           |     |             |      |      |       |          | GND            | 01       |          |          |          |        |                  |       |                     |                    |                    |                   |
| 12119         |        | XA416                           | 68  |        | XA422  | 78        |     |             | 16B  | 9    |       |          | TD23SDX        | 01       | TD23SDX  | 00       | 1        | OCF    | D8               |       | 34A                 |                    |                    |                   |
| 12012         |        | XA416                           | 69  |        | XA422  | 79        |     |             | 16B  | 9    |       |          | TD20SDX        | 01       | TD20SDX  | 00       | 1        | OCF    | D2               |       | 33B                 |                    |                    |                   |
| 12111         |        | XA416                           | 70  |        |        |           |     |             |      |      |       |          | TD23BQ         | 07       | TD23SDX  | 01       | 1        | OCF    | D8               |       | 35A                 |                    |                    |                   |
| 11736         |        | XA416                           | 71  |        |        |           |     |             |      |      |       |          | TD20C0         | 04       | TD20SDX  | 01       | 1        | OCF    | D2               |       | 34B                 |                    |                    |                   |
| 10630         |        | XA416                           | 72  |        | XA419  | 72        |     |             | 16B  | 9    |       |          | TDCBAA         | 07       | TD20SDX  | 01       | 1        | OCF    | D1               |       | 36A                 |                    | B05                |                   |
| 20421         |        | XA416                           | 72  |        |        |           |     |             |      |      |       |          | M              | TDCBAA   | 01       | TD23SDX  | 01       | 1      | OCF              | D7    |                     | 36A                |                    |                   |
| 20422         |        | XA416                           | 72  |        |        |           |     |             |      |      |       |          | M              | TDCBAA   | 01       | TD22SDX  | 01       | 1      | OCF              | D5    |                     | 36A                |                    |                   |
| 20423         |        | XA416                           | 72  |        |        |           |     |             |      |      |       |          | M              | TDCBAA   | 01       | TD21SDX  | 01       | 1      | OCF              | D3    |                     | 36A                |                    |                   |
| 12044         |        | XA416                           | 73  |        |        |           |     |             |      |      |       |          |                | TD21C0   | 04       | TD21SDX  | 01       | 1      | OCF              | D4    |                     | 35B                |                    |                   |
| 12080         |        | XA416                           | 74  |        |        |           |     |             |      |      |       |          |                | TD22C0   | 04       | TD22SDX  | 01       | 1      | OCF              | D6    |                     | 37A                |                    |                   |
| 12048         |        | XA416                           | 75  |        | XA422  | 73        |     |             | 16B  | 9    |       |          | TD21SDX        | 01       | TD21SDX  | 00       | 1        | OCF    | D4               |       | 36B                 |                    |                    |                   |
| 12084         |        | XA416                           | 76  |        | XA422  | 74        |     |             | 16B  | 9    |       |          | TD22SDX        | 01       | TD22SDX  | 00       | 1        | OCF    | D6               |       | 38A                 |                    |                    |                   |
| 20139         |        | XA416                           | 77  |        |        |           |     |             |      |      |       |          | YI21CG         | 02       |          |          |          |        |                  |       |                     |                    |                    |                   |
| 12047         |        | XA416                           | 78  |        |        |           |     |             |      |      |       |          | J              | TD21SDX  | 00       | TD21SDX  | 00       | 1      | OCF              | D3    |                     | 37B                | YI21CB4 BUSS       |                   |
| 20136         |        | XA416                           | 78  |        | XA404  | 45        |     | DE          | 1EB  | 9    |       | P        | TD21SDX        | 02       | YI21CB4  | 01       | 1        | OCF    | D3               |       | 37B                 | MEM DATA D/R BIT21 |                    |                   |
| 20144         |        | XA416                           | 79  |        |        |           |     |             |      |      |       |          |                | YI22CG   | 02       |          |          |        |                  |       |                     | 40B                |                    |                   |
| 12083         |        | XA416                           | 80  |        |        |           |     |             |      |      |       |          | J              | TD22SDX  | 00       | TD22SDX  | 00       | 1      | OCF              | D5    |                     | 38B                | YI22CB4 BUSS       |                   |
| 20141         |        | XA416                           | 80  |        | XA404  | 47        |     | DF          | 1EB  | 9    |       | P        | TD22SDX        | 02       | YI22CB4  | 01       | 1        | OCF    | D5               |       | 38B                 | MEM DATA D/R BIT22 |                    |                   |
| 11416         |        | XA417                           | 01  |        | XA411  | 24        |     |             | 16B  | 9    |       |          |                | TD03ADX4 | 01       | TD03ADX4 | 00       | 1      | OCF              | A7    |                     | 02A                | EXT DATA OUTPUT L  |                   |
| 11414         |        | XA417                           | 02  |        |        |           |     |             |      |      |       |          |                | TD03ADG4 | 02       |          |          |        |                  |       |                     | 01A                |                    |                   |
| 21257         |        | XA417                           | 02  |        |        |           |     |             |      |      |       |          |                | GND      | 01       |          |          |        |                  |       |                     | 01A                |                    |                   |
| 20469         |        | XA417                           | 03  |        |        |           |     |             |      |      |       |          |                | M        | TD03A0X  | 00       | 1        | OCF    | A8               |       | 03A                 |                    |                    |                   |
| 11023         |        | XA417                           | 04  |        | XA407  | 56        |     |             | 16B  | 9    |       |          |                | TDL3A0   | 01       | TD03A0X  | 01       | 1      | OCF              | A8    |                     | 04A                |                    |                   |
| 11285         |        | XA417                           | 05  |        |        |           |     |             |      |      |       |          |                |          | TD00ADG4 | 02       |          |        |                  |       |                     |                    |                    |                   |
| 10714         |        | XA417                           | 06  |        | XA428  | 13        |     |             | 16B  | 9    |       |          |                | TDGNDA   | 09       | TD00ADX4 | 01       | 1      | OCF              | A1    |                     | 05A                |                    |                   |
| 20445         |        | XA417                           | 06  |        |        |           |     |             |      |      |       |          |                | M        | TDGNDA   | 01       | TD03ADX4 | 01     | 1                | OCF   | A7                  |                    | 05A                |                   |
| 20446         |        | XA417                           | 06  |        |        |           |     |             |      |      |       |          |                | M        | TDGNDA   | 01       | TD01ADX4 | 01     | 1                | OCF   | A3                  |                    | 05A                |                   |
| 20447         |        | XA417                           | 06  |        |        |           |     |             |      |      |       |          |                | M        | TDGNDA   | 01       | TD02ADX4 | 01     | 1                | OCF   | A5                  |                    | 05A                |                   |
| 11287         |        | XA417                           | 07  |        | XA411  | 09        |     |             | 16B  | 9    |       |          |                |          | TD00ADX4 | 01       | TD00ADX4 | 00     | 1                | OCF   | A1                  |                    | 02B                | EXT DATA OUTPUT L |
| 11018         |        | XA417                           | 08  |        |        |           |     |             |      |      |       |          |                |          | TDL2A0   | 10       | TD02A0X  | 01     | 1                | OCF   | A6                  |                    | 06A                |                   |
| 20466         |        | XA417                           | 09  |        |        |           |     |             |      |      |       |          |                | M        | TD00A0X  | 01       | TD00A0X  | 00     | 1                | OCF   | A2                  |                    | 03B                |                   |
| 20468         |        | XA417                           | 10  |        |        |           |     |             |      |      |       |          |                |          | M        | TD02A0X  | 00       | 1      | OCF              | A6    |                     | 07A                |                    |                   |
| 10985         |        | XA417                           | 11  |        | XA510  | 41        |     |             | 16B  | 9    |       |          |                |          | TDL0A0   | 01       | TD00A0X  | 01     | 1                | OCF   | A2                  |                    | 04B                |                   |
| 00588         |        | XA417                           | 12  |        |        |           |     |             |      |      |       |          |                |          | +5V      | 01       |          |        |                  |       |                     | 08A                |                    |                   |
| 10597         |        | XA417                           | 13  |        | XA510  | 39        |     |             | 16B  | 9    |       |          |                |          | TDL1A0   | 01       | TD01A0X  | 01     | 1                | OCF   | A4                  |                    | 05B                |                   |
| 11370         |        | XA417                           | 14  |        | XA411  | 26        |     |             | 16B  | 9    |       |          |                |          | TD02ADX4 | 01       | TD02ADX4 | 00     | 1                | OCF   | A5                  |                    | 08B                | EXT DATA OUTPUT L |
| 20467         |        | XA417                           | 15  |        |        |           |     |             |      |      |       |          |                |          | M        | TD01A0X  | 00       | 1      | OCF              | A4    |                     | 06B                |                    |                   |
| 11369         |        | XA417                           | 16  |        |        |           |     |             |      |      |       |          |                |          |          | TD02ADG4 | 02       |        |                  |       |                     |                    |                    |                   |
| 21258         |        | XA417                           | 16  |        |        |           |     |             |      |      |       |          |                |          |          | GND      | 01       |        |                  |       |                     |                    |                    |                   |
| CONNECTOR     | XA417  | CONTINUED ON THE NEXT PAGE **** |     |        |        |           |     |             |      |      |       |          |                |          |          |          |          |        |                  |       |                     |                    |                    |                   |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA417  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 290

| RECORD NUMBER | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SFG NO   | EQUATION | TERM       | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|----------|----------|------------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |          |          |            |        |                  |       |                     |                    |                    |        |
| I1330         |        | XA417     | 17  |        | XA411     | 20  |      |             | 16B  | 9     |        | TD01ADX4 | 01       | TD01ADX400 | 1      | DCF              | A3    | 07B                 | EXT DATA OUTPUT L  |                    |        |
| 01407         |        | XA417     | 18  |        |           |     |      |             |      |       |        | DNW      | 01       |            |        | DCF              |       |                     |                    |                    |        |
| I1329         |        | XA417     | 19  |        |           |     |      |             |      |       |        | TD01ADG4 | 02       |            |        | DCF              |       |                     |                    |                    |        |
| 01408         |        | XA417     | 20  |        |           |     |      |             |      |       |        | DNW      | 01       |            |        | DCF              |       |                     |                    |                    |        |
| I1559         |        | XA417     | 21  |        |           |     |      |             |      |       |        | TD07ADG4 | 02       |            |        | DCF              |       |                     |                    |                    |        |
| 01409         |        | XA417     | 22  |        |           |     |      |             |      |       |        | DNW      | 01       |            |        | DCF              |       |                     |                    |                    |        |
| I1560         |        | XA417     | 23  |        | XA411     | 38  |      |             | 16B  | 9     |        | TD07ADX4 | 01       | TD07ADX400 | 1      | DCF              | B7    | 10A                 | EXT DATA OUTPUT L  |                    |        |
| 01410         |        | XA417     | 24  |        |           |     |      |             |      |       |        | DNW      | 01       |            |        | DCF              |       |                     |                    |                    |        |
| I1451         |        | XA417     | 25  |        |           |     |      |             |      |       |        | TD04ADG4 | 02       |            |        | DCF              |       |                     |                    |                    |        |
| 01411         |        | XA417     | 26  |        |           |     |      |             |      |       |        | DNW      | 01       |            |        | DCF              |       |                     |                    |                    |        |
| I1452         |        | XA417     | 27  |        | XA411     | 17  |      |             | 16B  | 9     |        | TD04ADX4 | 01       | TD04ADX400 | 1      | DCF              | B1    | 10B                 | EXT DATA OUTPUT L  |                    |        |
| 00589         |        | XA417     | 28  |        |           |     |      |             |      |       |        | +5V      | 01       |            |        | DCF              |       | 21B                 |                    |                    |        |
| 20470         |        | XA417     | 29  |        |           |     |      |             |      |       | M      | TD04A0X  | 01       | TD04A0X    | 00     | DCF              | B2    | 11B                 |                    |                    |        |
| 20473         |        | XA417     | 30  |        |           |     |      |             |      |       |        | TD07A0X  | 01       | TD07A0X    | 00     | DCF              | B8    | 11A                 |                    |                    |        |
| I1036         |        | XA417     | 31  |        | XA415     | 49  |      |             | 16B  | 9     |        | TDL4A0   | 01       | TD04A0X    | 01     | DCF              | B2    | 12B                 |                    |                    |        |
| 02745         |        | XA417     | 32  |        |           |     |      |             |      |       |        | GND      | 01       |            |        | DCF              |       |                     |                    |                    |        |
| I1049         |        | XA417     | 33  |        | XA407     | 41  |      |             | 16B  | 9     |        | TDL5A0   | 01       | TD05A0X    | 01     | DCF              | B4    | 13B                 |                    |                    |        |
| I1074         |        | XA417     | 34  |        | XA407     | 38  |      |             | 16B  | 9     |        | TDL7A0   | 01       | TD07A0X    | 01     | DCF              | B8    | 12A                 |                    |                    |        |
| 20471         |        | XA417     | 35  |        |           |     |      |             |      |       | M      | TD05A0X  | 01       | TD05A0X    | 00     | DCF              | B4    | 14B                 |                    |                    |        |
| 10712         |        | XA417     | 36  |        | XA416     | 06  |      |             | 16B  | 9     |        | TDGND4   | 07       | TD04ADX401 | 1      | DCF              | B1    | 13A                 |                    |                    |        |
| 20448         |        | XA417     | 36  |        |           |     |      |             |      |       | M      | TDGND4   | 01       | TD07ADX401 | 1      | DCF              | B7    | 13A                 |                    |                    |        |
| 20449         |        | XA417     | 36  |        |           |     |      |             |      |       | M      | TDGND4   | 01       | TD06ADX401 | 1      | DCF              | B5    | 13A                 |                    |                    |        |
| 20450         |        | XA417     | 36  |        |           |     |      |             |      |       | M      | TDGND4   | 01       | TD05ADX401 | 1      | DCF              | B3    | 13A                 |                    |                    |        |
| I1488         |        | XA417     | 37  |        | XA411     | 19  |      |             | 16B  | 9     |        | TD05ADX4 | 01       | TD05ADX400 | 1      | DCF              | B3    | 15B                 | EXT DATA OUTPUT L  |                    |        |
| I1062         |        | XA417     | 38  |        | XA511     | 37  |      |             | 16B  | 9     |        | TDL6A0   | 01       | TD06A0X    | 01     | DCF              | B6    | 14A                 |                    |                    |        |
| 11487         |        | XA417     | 39  |        |           |     |      |             |      |       |        | TD05ADG4 | 02       |            |        | DCF              |       |                     |                    |                    |        |
| 20472         |        | XA417     | 40  |        |           |     |      |             |      |       | M      | TD06A0X  | 01       | TD06A0X    | 00     | DCF              | B6    | 15A                 |                    |                    |        |
| 11524         |        | XA417     | 41  |        | XA411     | 36  |      |             | 16B  | 9     |        | TD06ADX4 | 01       | TD06ADX400 | 1      | DCF              | B5    | 16A                 | EXT DATA OUTPUT L  |                    |        |
| I1523         |        | XA417     | 42  |        |           |     |      |             |      |       |        | TD06ADG4 | 02       |            |        | DCF              |       | 20B                 |                    |                    |        |
| 09965         |        | XA417     | 43  |        | XA410     | 07  |      |             | 16B  | 9     |        | TCS2ADX4 | 01       | TCS2ADX400 | 1      | DCF              | C7    | 25A                 | EXT CHANNEL SELEC  |                    |        |
| 09964         |        | XA417     | 44  |        |           |     |      |             |      |       |        | TCS2ADG4 | 02       |            |        | DCF              |       |                     |                    |                    |        |
| 21259         |        | XA417     | 44  |        |           |     |      |             |      |       |        | GND      | 01       |            |        | DCF              |       |                     |                    |                    |        |
| I1279         |        | XA417     | 45  |        |           |     |      |             |      |       |        | TD0PADG4 | 02       |            |        | DCF              |       | 27A                 |                    |                    |        |
| 11280         |        | XA417     | 46  |        | XA411     | 07  |      |             | 16B  | 9     |        | TD0PADX4 | 01       | TD0PADX400 | 1      | DCF              | C1    | 25B                 | EXT DATA OUTPUT P  |                    |        |
| 20465         |        | XA417     | 47  |        |           |     |      |             |      |       | M      | TD0PA0X  | 01       | TD0PA0X    | 00     | DCF              | C2    | 26B                 |                    |                    |        |
| 20412         |        | XA417     | 48  |        |           |     |      |             |      |       | M      | TCS2A0X  | 01       | TCS2A0X    | 00     | DCF              | C8    | 26A                 |                    |                    |        |
| I0978         |        | XA417     | 49  |        | XA512     | 41  |      |             | 16B  | 9     |        | TDLPA0   | 02       | TD0PA0X    | 01     | DCF              | C2    | 27B                 |                    |                    |        |
| 09971         |        | XA417     | 50  |        |           |     |      |             |      |       |        | TCS2A0   | 04       | TCS2A0X    | 01     | DCF              | C8    | 28A                 |                    |                    |        |
| I5692         |        | XA417     | 51  |        | XA113     | 55  |      |             | 16B  | 9     |        | TSTRBQ   | 02       | TSTBA0X    | 01     | DCF              | C4    | 28B                 |                    |                    |        |
| 10711         |        | XA417     | 52  |        | XA417     | 36  |      |             | 16B  | 9     |        | TDGND4   | 06       | TD0PADX401 | 1      | DCF              | C1    | 29A                 |                    |                    |        |
| 20451         |        | XA417     | 52  |        |           |     |      |             |      |       | M      | TDGND4   | 01       | TCS2ADX401 | 1      | DCF              | C7    | 29A                 |                    |                    |        |
| 20452         |        | XA417     | 52  |        |           |     |      |             |      |       | M      | TDGND4   | 01       | TSTBADX401 | 1      | DCF              | C3    | 29A                 |                    |                    |        |
| 20453         |        | XA417     | 52  |        |           |     |      |             |      |       | M      | TDGND4   | 01       | TCS1ADX401 | 1      | DCF              | C5    | 29A                 | EXT CHANNEL SELEC  |                    |        |
| 15665         |        | XA417     | 53  |        |           |     |      |             |      |       |        | TSTBADG4 | 02       |            |        | DCF              |       |                     |                    |                    |        |
| 09959         |        | XA417     | 54  |        |           |     |      |             |      |       |        | TCS1A0   | 04       | TCS1A0X    | 01     | DCF              | C6    | 30A                 |                    |                    |        |
| 15666         |        | XA417     | 55  |        | XA410     | 23  |      |             | 16B  | 9     |        | TSTBADX4 | 01       | TSTBADX400 | 1      | DCF              | C3    | 30B                 | I/O STROBE EXT     |                    |        |
| 20523         |        | XA417     | 56  |        |           |     |      |             |      |       | M      | TSTBA0X  | 01       | TSTBA0X    | 00     | DCF              | C4    | 29B                 |                    |                    |        |
| 20411         |        | XA417     | 57  |        |           |     |      |             |      |       | M      | TCS1A0X  | 01       | TCS1A0X    | 00     | DCF              | C6    | 31A                 |                    |                    |        |
| 09952         |        | XA417     | 58  |        |           |     |      |             |      |       |        | TCS1ADG4 | 02       |            |        | DCF              |       |                     |                    |                    |        |
| 21260         |        | XA417     | 58  |        |           |     |      |             |      |       |        | GND      | 01       |            |        | DCF              |       |                     |                    |                    |        |

CONNECTOR (XA417) CONTINUED ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA417  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 291

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |        |       | SPEC. INSC | SIGNAL | SEQ NO     | EQUATION | TERM | FACTOR | CKT OR CHA TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS (LAND OR) | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|--------|-------|------------|--------|------------|----------|------|--------|-----------------|-------|---------------------|-----------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH O | PREFIX | CONNECTOR | PIN | SH O | MULTI GROUP | CODE | COL IN | IDENT |            |        |            |          |      |        |                 |       |                     |                       |                    |        |
| 10012   |        | XA417     | 59  |      |        |           |     |      |             |      |        |       | TCS6ADG4   | 02     |            |          |      |        |                 |       |                     |                       |                    |        |
| 09953   |        | XA417     | 60  |      | XA410  | 05        |     |      | 16B         | 9    |        |       | TCS1ADX4   | 01     | TCS1ADX400 | 1        |      | DCF    | C5              |       | 31B                 | EXT CHANNEL SELEC     |                    |        |
| 10013   |        | XA417     | 61  |      | XA410  | 24        |     |      | 16B         | 9    |        |       | TCS6ADX4   | 01     | TCS6ADX400 | 1        |      | DCF    | D7              |       | 33A                 | EXT CHANNEL SELEC     |                    |        |
| 01412   |        | XA417     | 62  |      |        |           |     |      |             |      |        |       | DNW        | 01     |            |          |      | DCF    |                 |       |                     |                       |                    |        |
| 01413   |        | XA417     | 63  |      |        |           |     |      |             |      |        |       | DNW        | 01     |            |          |      | DCF    |                 |       |                     |                       |                    |        |
| 01414   |        | XA417     | 64  |      |        |           |     |      |             |      |        |       | DNW        | 01     |            |          |      | DCF    |                 |       |                     |                       |                    |        |
| 09977   |        | XA417     | 65  |      | XA410  | 09        |     |      | 16B         | 9    |        |       | TCS3ADX4   | 01     | TCS3ADX400 | 1        |      | DCF    | D1              |       | 32B                 | EXT CHANNEL SELEC     |                    |        |
| 01415   |        | XA417     | 66  |      |        |           |     |      |             |      |        |       | DNW        | 01     |            |          |      | DCF    |                 |       |                     |                       |                    |        |
| 09976   |        | XA417     | 67  |      |        |           |     |      |             |      |        |       | TCS3ADG4   | 02     |            |          |      | DCF    |                 |       |                     |                       |                    |        |
| 21261   |        | XA417     | 67  |      |        |           |     |      |             |      |        |       | GND        | 01     |            |          |      | DCF    |                 |       |                     |                       |                    |        |
| 20416   |        | XA417     | 68  |      |        |           |     |      |             |      |        | M     | TCS6A0X    | 01     | TCS6A0X00  | 1        |      | DCF    | D8              |       | 34A                 |                       |                    |        |
| 20413   |        | XA417     | 69  |      |        |           |     |      |             |      |        |       | TCS3A0X    | 01     | TCS3A0X00  | 1        |      | DCF    | D2              |       | 33B                 |                       |                    |        |
| 10015   |        | XA417     | 70  |      |        |           |     |      |             |      |        |       | TCS6A0     | 04     | TCS6A0X01  | 1        |      | DCF    | D8              |       | 35A                 |                       |                    |        |
| 09983   |        | XA417     | 71  |      |        |           |     |      |             |      |        |       | TCS3A0     | 04     | TCS3A0X01  | 1        |      | DCF    | D2              |       | 34B                 |                       |                    |        |
| 10706   |        | XA417     | 72  |      | XA420  | 54        |     |      | 16B         | 9    |        |       | T0GNDA     | 01     | TCS3ADX401 | 1        |      | DCF    | D1              |       | 36A                 |                       |                    |        |
| 20454   |        | XA417     | 72  |      |        |           |     |      |             |      |        | M     | T0GNDA     | 01     | TCS6ADX401 | 1        |      | DCF    | D7              |       | 36A                 |                       |                    |        |
| 20455   |        | XA417     | 72  |      |        |           |     |      |             |      |        | M     | T0GNDA     | 01     | TCS5ADX401 | 1        |      | DCF    | D5              |       | 36A                 |                       |                    |        |
| 20456   |        | XA417     | 72  |      |        |           |     |      |             |      |        | M     | T0GNDA     | 01     | TCS4ADX401 | 1        |      | DCF    | D3              |       | 36A                 |                       |                    |        |
| 09995   |        | XA417     | 73  |      |        |           |     |      |             |      |        |       | TCS4A0     | 04     | TCS4A0X01  | 1        |      | DCF    | D4              |       | 35B                 |                       |                    |        |
| 10007   |        | XA417     | 74  |      |        |           |     |      |             |      |        |       | TCS5A0     | 04     | TCS5A0X01  | 1        |      | DCF    | D6              |       | 37A                 |                       |                    |        |
| 20414   |        | XA417     | 75  |      |        |           |     |      |             |      |        | M     | TCS4A0X    | 01     | TCS4A0X00  | 1        |      | DCF    | D4              |       | 36B                 |                       |                    |        |
| 20415   |        | XA417     | 76  |      |        |           |     |      |             |      |        |       | TCS5A0X    | 01     | TCS5A0X00  | 1        |      | DCF    | D6              |       | 38A                 |                       |                    |        |
| 09987   |        | XA417     | 77  |      | XA302  | 46        |     |      | AH          | 1EB  | 0      |       | TCS4ADG4   | 01     |            |          |      | DCF    |                 |       |                     |                       |                    |        |
| 09989   |        | XA417     | 78  |      | XA302  | 45        |     |      | AH          | 1EB  | 9      |       | TCS4ADX4   | 02     | TCS4ADX400 | 1        |      | DCF    | D3              |       | 37B                 | EXT CHANNEL SELEC     |                    |        |
| 10000   |        | XA417     | 79  |      |        |           |     |      |             |      |        |       | TCS5ADG4   | 02     |            |          |      | DCF    |                 |       | 40B                 |                       |                    |        |
| 10001   |        | XA417     | 80  |      | XA410  | 26        |     |      | 16B         | 9    |        |       | TCS5ADX4   | 01     | TCS5ADX400 | 1        |      | DCF    | D5              |       | 38B                 | EXT CHANNEL SELEC     |                    |        |
| 15284   |        | XA418     | 01  |      | XA411  | 05        |     |      | 16B         | 9    |        |       | TRDYADX4   | 01     | TRDYADX400 | 1        |      | DCF    | A7              |       | 02A                 | EXT READY             |                    |        |
| 15283   |        | XA418     | 02  |      |        |           |     |      |             |      |        |       | TRDYADG4   | 02     |            |          |      | DCF    |                 |       | 01A                 |                       |                    |        |
| 21262   |        | XA418     | 02  |      |        |           |     |      |             |      |        |       | GND        | 01     |            |          |      | DCF    |                 |       | 01A                 |                       |                    |        |
| 20521   |        | XA418     | 03  |      |        |           |     |      |             |      |        | M     | TRDYA0X    | 01     | TRDYA0X00  | 1        |      | DCF    | A8              |       | 03A                 |                       |                    |        |
| 10249   |        | XA418     | 04  |      | XA328  | 73        |     |      | 16B         | 9    |        |       | TC12BQ     | 01     | TRDYA0X01  | 1        |      | DCF    | A8              |       | 04A                 |                       |                    |        |
| 10729   |        | XA418     | 05  |      |        |           |     |      |             |      |        |       | TDIPADG4   | 02     |            |          |      | DCF    |                 |       |                     |                       |                    |        |
| 12558   |        | XA418     | 06  |      | XA108  | 07        |     |      | 16B         | 9    |        |       | TER1AA     | 01     | TDIPADX401 | 1        |      | DCF    | A1              |       | 05A                 |                       |                    |        |
| 20478   |        | XA418     | 06  |      |        |           |     |      |             |      |        | M     | TER1AA     | 01     | TRDYADX401 | 1        |      | DCF    | A7              |       | 05A                 |                       |                    |        |
| 20479   |        | XA418     | 06  |      |        |           |     |      |             |      |        | M     | TER1AA     | 01     | TDI1ADX401 | 1        |      | DCF    | A5              |       | 05A                 |                       |                    |        |
| 20480   |        | XA418     | 06  |      |        |           |     |      |             |      |        | M     | TER1AA     | 01     | TDI0ADX401 | 1        |      | DCF    | A3              |       | 05A                 |                       |                    |        |
| 10731   |        | XA418     | 07  |      | XA303  | 03        |     |      | AL          | 1EB  | 9      |       | TDIPADX4   | 02     | TDIPADX400 | 1        |      | DCF    | A1              |       | 02B                 | EXT DATA INPUT RE     |                    |        |
| 12496   |        | XA418     | 08  |      | XA418  | 11        |     |      | 16B         | 9    |        |       | TEGND4     | 02     | TDI1A0X01  | 1        |      | DCF    | A6              |       | 06A                 |                       |                    |        |
| 10737   |        | XA418     | 09  |      |        |           |     |      |             |      |        |       | TDIPA0X    | 02     | TDIPA0X00  | 1        |      | DCF    | A2              |       | 03B                 |                       |                    |        |
| 10787   |        | XA418     | 10  |      | XA426  | 04        |     |      | 16B         | 9    |        |       | TDI1A0X    | 01     | TDI1A0X00  | 1        |      | DCF    | A6              |       | 07A                 | EXT DATA INPUT RE     |                    |        |
| 12497   |        | XA418     | 11  |      | XA418  | 13        |     |      | 16B         | 9    |        |       | TEGND4     | 03     | TDIPA0X01  | 1        |      | DCF    | A2              |       | 04B                 |                       |                    |        |
| 00590   |        | XA418     | 12  |      |        |           |     |      |             |      |        |       | +5V        | 01     |            |          |      | DCF    |                 |       | 08A                 |                       |                    |        |
| 12498   |        | XA418     | 13  |      | XA418  | 33        |     |      | 16B         | 9    |        |       | TEGND4     | 04     | TDI0A0X01  | 1        |      | DCF    | A4              |       | 05B                 |                       |                    |        |
| 10781   |        | XA418     | 14  |      | XA303  | 07        |     |      | AN          | 1EB  | 9      |       | TDI1ADX4   | 02     | TDI1ADX400 | 1        |      | DCF    | A5              |       | 08B                 |                       |                    |        |
| 10760   |        | XA418     | 15  |      | XA426  | 06        |     |      | 16B         | 9    |        |       | TDI0A0X    | 01     | TDI0A0X00  | 1        |      | DCF    | A4              |       | 06B                 | EXT DATA INPUT RE     |                    |        |
| 10775   |        | XA418     | 16  |      |        |           |     |      |             |      |        |       | TDI1ADG4   | 02     |            |          |      | DCF    |                 |       |                     |                       |                    |        |
| 21263   |        | XA418     | 16  |      |        |           |     |      |             |      |        |       | GND        | 01     |            |          |      | DCF    |                 |       |                     |                       |                    |        |
| 10754   |        | XA418     | 17  |      | XA303  | 05        |     |      | AM          | 1EB  | 9      |       | TDI0ADX4   | 02     | TDI0ADX400 | 1        |      | DCF    | A3              |       | 07B                 |                       |                    |        |
| CONNECTOR (XA418) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |        |       |            |        |            |          |      |        |                 |       |                     |                       |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA418  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 292

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION   | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND/OR | SIGNAL DESCRIPTION | COO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|----------|--------|------------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | LINE | PREFIX | CONNECTOR | PIN | LINE | MULTI GROUP | CODE | COLOR | IDENT |          |        |            |      |        |                  |       |                     |                    |                    |        |
| 01416   |        | XA418     | 18  |      |        |           |     |      |             |      |       |       | DNW      | 01     |            |      |        | DCF              |       |                     |                    |                    |        |
| 10751   |        | XA418     | 19  |      | XA303  | 06        |     | AM   | 1EB         | 0    |       |       | TDI0ADG4 | 01     |            |      |        | DCF              |       |                     |                    |                    |        |
| 01417   |        | XA418     | 20  |      |        |           |     |      |             |      |       |       | DNW      | 01     |            |      |        | DCF              |       |                     |                    |                    |        |
| 10914   |        | XA418     | 21  |      |        |           |     |      |             |      |       |       | TDI6ADG4 | 02     |            |      |        | DCF              |       |                     |                    |                    |        |
| 01418   |        | XA418     | 22  |      |        |           |     |      |             |      |       |       | DNW      | 01     |            |      |        | DCF              |       |                     |                    |                    |        |
| 10916   |        | XA418     | 23  |      | XA303  | 21        |     | AT   | 1EB         | 9    |       |       | TDI6ADX4 | 02     | TDI6ADX400 | 1    | DCF    | B7               |       |                     | 10A                |                    |        |
| 01419   |        | XA418     | 24  |      |        |           |     |      |             |      |       |       | DNW      | 01     |            |      |        | DCF              |       |                     |                    |                    |        |
| 20024   |        | XA418     | 25  |      |        |           |     |      |             |      |       |       | YHLCCG   | 02     |            |      |        | DCF              |       |                     |                    |                    |        |
| 01420   |        | XA418     | 26  |      |        |           |     |      |             |      |       |       | DNW      | 01     |            |      |        | DCF              |       |                     |                    |                    |        |
| 14123   |        | XA418     | 27  |      |        |           |     |      |             |      |       | J     | TMHLCOX  | 01     | TMHLCDX    | 00   | 1      | DCF              | B1    |                     | 10B                | YHLCCB4 BUSS       |        |
| 20021   |        | XA418     | 27  |      | XA404  | 71        |     | CC   | 1EB         | 9    |       | P     | TMHLCOX  | 02     | YHLCCB4    | 01   | 1      | DCF              | B1    |                     | 10B                | MEM HOLD CONT DRV. |        |
| 00591   |        | XA418     | 28  |      |        |           |     |      |             |      |       |       | +5V      | 01     |            |      |        | DCF              |       |                     | 21B                |                    |        |
| 20504   |        | XA418     | 29  |      |        |           |     |      |             |      |       | M     | TMHLCOX  | 01     | TMHLCOX    | 00   | 1      | DCF              | B2    |                     | 11B                |                    |        |
| 10922   |        | XA418     | 30  |      | XA426  | 23        |     |      | 16B         | 9    |       |       | TDI6A0X  | 01     | TDI6A0X    | 00   | 1      | DCF              | B8    |                     | 11A                | EXT DATA INPUT RE  |        |
| 14124   |        | XA418     | 31  |      | XA251  | 25        |     |      | 16B         | 9    |       |       | TMHLCOX  | 01     | TMHLCOX    | 01   | 1      | DCF              | B2    |                     | 12B                |                    |        |
| 02750   |        | XA418     | 32  |      |        |           |     |      |             |      |       |       | GND      | 01     |            |      |        | DCF              |       |                     |                    |                    |        |
| 12499   |        | XA418     | 33  |      | XA418  | 34        |     |      | 16B         | 9    |       |       | TEGND4   | 05     | TDI4A0X    | 01   | 1      | DCF              | B4    |                     | 13B                |                    |        |
| 12500   |        | XA418     | 34  |      | XA418  | 38        |     |      | 16B         | 9    |       |       | TEGND4   | 06     | TDI6A0X    | 01   | 1      | DCF              | B8    |                     | 12A                |                    |        |
| 10868   |        | XA418     | 35  |      | XA426  | 15        |     |      | 16B         | 9    |       |       | TDI4A0X  | 01     | TDI4A0X    | 00   | 1      | DCF              | B4    |                     | 14B                | EXT DATA INPUT RE  |        |
| 09075   |        | XA418     | 36  |      | XA417  | 72        |     |      | 16B         | 9    |       |       | TDGND4   | 005    | TMHLCDX    | 01   | 1      | DCF              | B1    |                     | 13A                |                    | 006    |
| 20402   |        | XA418     | 36  |      |        |           |     |      |             |      |       | M     | TBMACP   | 01     | TDI5ADX4   | 01   | 1      | DCF              | B5    |                     | 13A                |                    |        |
| 20403   |        | XA418     | 36  |      |        |           |     |      |             |      |       | M     | TBMACP   | 01     | TDI4ADX4   | 01   | 1      | DCF              | B3    |                     | 13A                |                    |        |
| 20404   |        | XA418     | 36  |      |        |           |     |      |             |      |       | M     | TBMACP   | 01     | TDI6ADX4   | 01   | 1      | DCF              | B7    |                     | 13A                |                    |        |
| 10862   |        | XA418     | 37  |      | XA303  | 17        |     | AR   | 1EB         | 9    |       |       | TDI4ADX4 | 02     | TDI4ADX400 | 1    | DCF    | B3               |       |                     | 15B                |                    |        |
| 12501   |        | XA418     | 38  |      | XA418  | 50        |     |      | 16B         | 9    |       |       | TEGND4   | 07     | TDI5A0X    | 01   | 1      | DCF              | B6    |                     | 14A                |                    |        |
| 10859   |        | XA418     | 39  |      | XA303  | 18        |     | AR   | 1EB         | 0    |       |       | TDI4ADG4 | 01     |            |      |        | DCF              |       |                     |                    |                    |        |
| 10895   |        | XA418     | 40  |      | XA426  | 22        |     |      | 16B         | 9    |       |       | TDI5A0X  | 01     | TDI5A0X    | 00   | 1      | DCF              | B6    |                     | 15A                | EXT DATA INPUT RE  |        |
| 10889   |        | XA418     | 41  |      | XA303  | 19        |     | AS   | 1EB         | 9    |       |       | TDI5ADX4 | 02     | TDI5ADX400 | 1    | DCF    | B5               |       |                     | 16A                |                    |        |
| 10887   |        | XA418     | 42  |      |        |           |     |      |             |      |       |       | TDI5ADG4 | 02     |            |      |        | DCF              |       |                     | 20B                |                    |        |
| 15360   |        | XA418     | 43  |      | XA303  | 41        |     | BL   | 1EB         | 9    |       |       | TRQ3ADX4 | 02     | TRQ3ADX400 | 1    | DCF    | C7               |       |                     | 25A                |                    |        |
| 15358   |        | XA418     | 44  |      |        |           |     |      |             |      |       |       | TRQ3ADG4 | 02     |            |      |        | DCF              |       |                     |                    |                    |        |
| 21264   |        | XA418     | 44  |      |        |           |     |      |             |      |       |       | GND      | 01     |            |      |        | DCF              |       |                     |                    |                    |        |
| 20400   |        | XA418     | 45  |      | XA404  | 70        |     | CB   | 1EB         | 0    |       |       | YADCCX   | 01     |            |      |        | DCF              |       |                     | 27A                |                    |        |
| 08402   |        | XA418     | 46  |      |        |           |     |      |             |      |       | J     | TADCSOX  | 01     | TADCSOX    | 00   | 1      | DCF              | C1    |                     | 25B                | YADCCB4 BUSS       |        |
| 20018   |        | XA418     | 46  |      | XA404  | 69        |     | CB   | 1EB         | 9    |       | P     | TADCSOX  | 02     | YADCCB4    | 01   | 1      | DCF              | C1    |                     | 25B                | MEM ADRS CONT DRV  |        |
| 20401   |        | XA418     | 47  |      |        |           |     |      |             |      |       | M     | TADCSOX  | 01     | TADCSOX    | 00   | 1      | DCF              | C2    |                     | 26B                |                    |        |
| 15365   |        | XA418     | 48  |      |        |           |     |      |             |      |       |       | TRQ3A0X  | 02     | TRQ3A0X    | 00   | 1      | DCF              | C8    |                     | 26A                | EXT REQ 3 REC      |        |
| 08400   |        | XA418     | 49  |      | XA317  | 61        |     |      | 16B         | 9    |       |       | TADCAQ   | 01     | TADCSOX    | 01   | 1      | DCF              | C2    |                     | 27B                |                    |        |
| 12502   |        | XA418     | 50  |      | XA418  | 54        |     |      | 16B         | 9    |       |       | TEGND4   | 08     | TRQ3A0X    | 01   | 1      | DCF              | C8    |                     | 28A                |                    |        |
| 12504   |        | XA418     | 51  |      | XA418  | 73        |     |      | 16B         | 9    |       |       | TEGND4   | 10     | TRQ1A0X    | 01   | 1      | DCF              | C4    |                     | 28B                |                    |        |
| 14439   |        | XA418     | 52  |      | XA349  | 78        |     |      | 16B         | 9    |       |       | TM00BQ   | 03     | TADCSOX    | 01   | 1      | DCF              | C1    |                     | 29A                |                    |        |
| 20515   |        | XA418     | 52  |      |        |           |     |      |             |      |       | M     | TM00BQ   | 01     | TRQ2ADX4   | 01   | 1      | DCF              | C5    |                     | 29A                |                    |        |
| 20516   |        | XA418     | 52  |      |        |           |     |      |             |      |       | M     | TM00BQ   | 01     | TRQ1ADX4   | 01   | 1      | DCF              | C3    |                     | 29A                |                    |        |
| 20517   |        | XA418     | 52  |      |        |           |     |      |             |      |       | M     | TM00BQ   | 01     | TRQ3ADX4   | 01   | 1      | DCF              | C7    |                     | 29A                |                    |        |
| 15324   |        | XA418     | 53  |      | XA303  | 38        |     | BJ   | 1EB         | 0    |       |       | TRQ1ADG4 | 01     |            |      |        | DCF              |       |                     |                    |                    |        |
| 12503   |        | XA418     | 54  |      | XA418  | 51        |     |      | 16B         | 9    |       |       | TEGND4   | 09     | TRQ2A0X    | 01   | 1      | DCF              | C6    |                     | 30A                |                    |        |
| 15327   |        | XA418     | 55  |      | XA303  | 37        |     | BJ   | 1EB         | 9    |       |       | TRQ1ADX4 | 02     | TRQ1ADX400 | 1    | DCF    | C3               |       |                     | 30B                |                    |        |
| 15333   |        | XA418     | 56  |      |        |           |     |      |             |      |       |       | TRQ1A0X  | 02     | TRQ1A0X    | 00   | 1      | DCF              | C4    |                     | 29B                | EXT REQ 1 REC      |        |
| 15349   |        | XA418     | 57  |      |        |           |     |      |             |      |       |       | TRQ2A0X  | 02     | TRQ2A0X    | 00   | 1      | DCF              | C6    |                     | 31A                | EXT REQ 2 REC      |        |
| 15342   |        | XA418     | 58  |      |        |           |     |      |             |      |       |       | TRQ2ADG4 | 02     |            |      |        | DCF              |       |                     |                    |                    |        |
| CONNECTOR (XA418) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |          |        |            |      |        |                  |       |                     |                    |                    |        |



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 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 293

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |       |      |       | SIGNAL | SEQ NO   | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO             |       |
|---|--------|-----------|-----|--------|-----------|-----|------|-------|------|-------|--------|----------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------------------|-------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | WIRE | GROUP | CODE | COLOR |        |          |          |      |        |                  |       |                     |                    |                    |                    | IDENT |
| 21265   |        | XA418     | 58  |        |           |     |      |       |      |       |        | GND      | 01       |      |        |                  |       |                     |                    |                    |                    |       |
| 15419   |        | XA418     | 59  |        |           |     |      |       |      |       |        | TRQ7ADG4 | 02       |      |        |                  |       |                     |                    |                    |                    |       |
| 15344   |        | XA418     | 60  |        | XA303     | 39  |      | BK    | 1EB  | 9     |        | TRQ2ADX4 | 00       | 1    |        |                  | C5    |                     | 31B                |                    |                    |       |
| 15421   |        | XA418     | 61  |        | XA303     | 51  |      | BQ    | 1EB  | 9     |        | TRQ7ADX4 | 00       | 1    |        |                  | D7    |                     | 33A                |                    |                    |       |
| 01421   |        | XA418     | 62  |        |           |     |      |       |      |       |        | DNW      | 01       |      |        |                  |       |                     |                    |                    |                    |       |
| 01422   |        | XA418     | 63  |        |           |     |      |       |      |       |        | DNW      | 01       |      |        |                  |       |                     |                    |                    |                    |       |
| 01423   |        | XA418     | 64  |        |           |     |      |       |      |       | J      | DNW      | 01       |      |        |                  |       |                     |                    |                    |                    |       |
| 12431   |        | XA418     | 65  |        |           |     |      |       |      |       | P      | TD32SDX  | 01       |      |        |                  |       |                     | 01                 | 32B                | YIOPCB4 BUSS       |       |
| 20026   |        | XA418     | 65  |        | XA404     | 01  |      | CD    | 1EB  | 9     |        | TD32SDX  | 02       |      |        |                  |       |                     | 01                 | 32B                |                    |       |
| 01424   |        | XA418     | 66  |        |           |     |      |       |      |       |        | DNW      | 01       |      |        |                  |       |                     |                    |                    |                    |       |
| 20029   |        | XA418     | 67  |        |           |     |      |       |      |       |        | YIOPCG   | 02       |      |        |                  |       |                     |                    |                    |                    |       |
| 21266   |        | XA418     | 67  |        |           |     |      |       |      |       |        | GND      | 01       |      |        |                  |       |                     |                    |                    |                    |       |
| 15426   |        | XA418     | 68  |        |           |     |      |       |      |       |        | TRQ7A0X  | 00       | 1    |        |                  |       |                     | 08                 | 34A                | EXT REQ 7 REC      |       |
| 12432   |        | XA418     | 69  |        | XA423     | 42  |      |       | 16B  | 9     |        | TD32S0X  | 00       | 1    |        |                  |       |                     | D2                 | 33B                | MEM DAT D/R PARITY |       |
| 12507   |        | XA418     | 70  |        | XA420     | 72  |      |       | 16B  | 9     |        | TEGND    | 13       |      |        |                  |       |                     | D8                 | 35A                |                    |       |
| 14152   |        | XA418     | 71  |        |           |     |      |       |      |       |        | TM04BP   | 02       |      |        |                  |       |                     | D2                 | 34B                |                    |       |
| 14544   |        | XA418     | 72  |        |           |     |      |       |      |       |        | TD32SDX  | 01       | 1    |        |                  |       |                     | D1                 | 36A                |                    |       |
| 20518   |        | XA418     | 72  |        |           |     |      |       |      |       | M      | TRQ7ADX4 | 01       | 1    |        |                  |       |                     | D7                 | 36A                |                    |       |
| 20519   |        | XA418     | 72  |        |           |     |      |       |      |       | M      | TM04BP   | 01       | 1    |        |                  |       |                     | D5                 | 36A                |                    |       |
| 20520   |        | XA418     | 72  |        |           |     |      |       |      |       | M      | TM04BP   | 01       | 1    |        |                  |       |                     | D3                 | 36A                |                    |       |
| 12505   |        | XA418     | 73  |        | XA418     | 74  |      |       | 16B  | 9     |        | TEGND    | 11       |      |        |                  |       |                     | D4                 | 35B                |                    |       |
| 12506   |        | XA418     | 74  |        | XA418     | 70  |      |       | 16B  | 9     |        | TEGND    | 12       |      |        |                  |       |                     | D6                 | 37A                |                    |       |
| 15394   |        | XA418     | 75  |        |           |     |      |       |      |       |        | TRQ5A0X  | 00       | 1    |        |                  |       |                     | D4                 | 36B                | EXT REQ 5 REC      |       |
| 15410   |        | XA418     | 76  |        |           |     |      |       |      |       |        | TRQ6A0X  | 02       |      |        |                  |       |                     | D6                 | 38A                | EXT REQ 6 REC      |       |
| 15386   |        | XA418     | 77  |        | XA303     | 48  |      | BN    | 1EB  | 0     |        | TRQ5ADG4 | 01       |      |        |                  |       |                     |                    |                    |                    |       |
| 15389   |        | XA418     | 78  |        | XA303     | 47  |      | BN    | 1EB  | 9     |        | TRQ5ADX4 | 02       |      |        |                  |       |                     | D3                 | 37B                |                    |       |
| 15403   |        | XA418     | 79  |        |           |     |      |       |      |       |        | TRQ6ADG4 | 02       |      |        |                  |       |                     |                    |                    | 40B                |       |
| 15405   |        | XA418     | 80  |        | XA303     | 49  |      | BP    | 1EB  | 9     |        | TRQ6ADX4 | 02       |      |        |                  |       |                     | D5                 | 38B                |                    |       |
| 11435   |        | XA419     | 01  |        |           |     |      |       |      |       | J      | TD03SDX  | 01       |      |        |                  |       |                     | A7                 | 02A                | YI03CB4 BUSS       |       |
| 20046   |        | XA419     | 01  |        | XA404     | 09  |      | CH    | 1EB  | 9     |        | TD03SDX  | 02       |      |        |                  |       |                     | A7                 | 02A                | MEM DATA D/R BIT03 |       |
| 20049   |        | XA419     | 02  |        |           |     |      |       |      |       |        | YI03CG   | 02       |      |        |                  |       |                     |                    |                    | 01A                |       |
| 21267   |        | XA419     | 02  |        |           |     |      |       |      |       |        | GND      | 01       |      |        |                  |       |                     |                    |                    | 01A                |       |
| 11436   |        | XA419     | 03  |        | XA422     | 13  |      |       | 16B  | 9     |        | TD03S0X  | 01       |      |        |                  |       |                     | A8                 | 03A                |                    |       |
| 11426   |        | XA419     | 04  |        |           |     |      |       |      |       |        | TD03BQ   | 07       |      |        |                  |       |                     | A8                 | 04A                |                    |       |
| 20034   |        | XA419     | 05  |        |           |     |      |       |      |       |        | YI00CG   | 02       |      |        |                  |       |                     |                    |                    |                    |       |
| 10624   |        | XA419     | 06  |        | XA420     | 06  |      |       | 16B  | 9     |        | TDCBAA   | 01       |      |        |                  |       |                     | A1                 | 05A                |                    |       |
| 20424   |        | XA419     | 06  |        |           |     |      |       |      |       | M      | TD02SDX  | 01       | 1    |        |                  |       |                     | A5                 | 05A                |                    |       |
| 20425   |        | XA419     | 06  |        |           |     |      |       |      |       | M      | TD03SDX  | 01       | 1    |        |                  |       |                     | A7                 | 05A                |                    |       |
| 20426   |        | XA419     | 06  |        |           |     |      |       |      |       | M      | TD01SDX  | 01       | 1    |        |                  |       |                     | A3                 | 05A                |                    |       |
| 11306   |        | XA419     | 07  |        |           |     |      |       |      |       | J      | TD00SDX  | 01       | 1    |        |                  |       |                     | A1                 | 02B                | YI00CB4 BUSS       |       |
| 20031   |        | XA419     | 07  |        | XA404     | 03  |      | CE    | 1EB  | 9     |        | TD00SDX  | 02       |      |        |                  |       |                     | A1                 | 02B                | MEM DATA D/R BIT00 |       |
| 11382   |        | XA419     | 08  |        |           |     |      |       |      |       |        | TD02BQ   | 07       |      |        |                  |       |                     | A6                 | 06A                |                    |       |
| 11307   |        | XA419     | 09  |        | XA422     | 10  |      |       | 16B  | 9     |        | TD03S0X  | 01       |      |        |                  |       |                     | A2                 | 03B                |                    |       |
| 11390   |        | XA419     | 10  |        | XA422     | 07  |      |       | 16B  | 9     |        | TD02S0X  | 01       |      |        |                  |       |                     | A6                 | 07A                |                    |       |
| 11299   |        | XA419     | 11  |        |           |     |      |       |      |       |        | TD00BQ   | 07       |      |        |                  |       |                     | A2                 | 04B                |                    |       |
| 00592   |        | XA419     | 12  |        |           |     |      |       |      |       |        | +5V      | 01       |      |        |                  |       |                     |                    | 08A                |                    |       |
| 11342   |        | XA419     | 13  |        |           |     |      |       |      |       | J      | TD01BQ   | 07       |      |        |                  |       |                     | A4                 | 05B                |                    |       |
| 11389   |        | XA419     | 14  |        |           |     |      |       |      |       |        | TD02SDX  | 01       |      |        |                  |       |                     | A5                 | 08B                | YI02CB4 BUSS       |       |
| CONNECTOR XA419 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |       |      |       |        |          |          |      |        |                  |       |                     |                    |                    |                    |       |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA419  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 294

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SFC INST MISC | SIGNAL  | SFC NO | EQUATION | TERM | TEST POINT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO             |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|---------------|---------|--------|----------|------|------------|------------------|-------|---------------------|--------------------|--------------------|--------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |               |         |        |          |      |            |                  |       |                     |                    |                    |                    |
| 20041   |        | XA419     | 14  |        | XA404     | 07  |             | CG   | 1EB   | 9     |               | T002SDX | 02     | YI02CB4  | 01   | 1          | DCF              | A5    |                     | 08B                | MEM DATA D/R BIT02 |                    |
| 11350   |        | XA419     | 15  |        | XA422     | 05  |             |      |       |       |               | T001SOX | 01     | T001SOX  | 00   | 1          | DCF              | A4    |                     | 06B                |                    |                    |
| 20044   |        | XA419     | 16  |        |           |     |             |      |       |       |               | YI02CG  | 02     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 21268   |        | XA419     | 16  |        |           |     |             |      |       |       |               | GND     | 01     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 11349   |        | XA419     | 17  |        |           |     |             |      |       |       | J             | T001SDX | 01     | T001SDX  | 00   | 1          | DCF              | A3    |                     | 07B                | YI01CB4 BUSS       |                    |
| 20036   |        | XA419     | 17  |        | XA404     | 05  |             | CF   | 1EB   | 9     |               | T001SDX | 02     | YI01CB4  | 01   | 1          | DCF              | A3    |                     | 07B                | MEM DATA D/R BIT01 |                    |
| 01425   |        | XA419     | 18  |        |           |     |             |      |       |       |               | DNW     | 01     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 20039   |        | XA419     | 19  |        |           |     |             |      |       |       |               | YI01CG  | 02     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 01426   |        | XA419     | 20  |        |           |     |             |      |       |       |               | DNW     | 01     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 20069   |        | XA419     | 21  |        |           |     |             |      |       |       |               | YI07CG  | 02     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 01427   |        | XA419     | 22  |        |           |     |             |      |       |       |               | DNW     | 01     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 11579   |        | XA419     | 23  |        |           |     |             |      |       |       | J             | T007SDX | 01     | T007SDX  | 00   | 1          | DCF              | B7    |                     | 10A                | YI07CB4 BUSS       |                    |
| 20086   |        | XA419     | 23  |        | XA404     | 17  |             | CL   | 1EB   | 9     |               | T007SDX | 02     | YI07CB4  | 01   | 1          | DCF              | B7    |                     | 10A                | MEM DATA D/R BIT07 |                    |
| 01428   |        | XA419     | 24  |        |           |     |             |      |       |       |               | DNW     | 01     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 20054   |        | XA419     | 25  |        |           |     |             |      |       |       |               | YI04CG  | 02     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 01429   |        | XA419     | 26  |        |           |     |             |      |       |       |               | DNW     | 01     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 11471   |        | XA419     | 27  |        |           |     |             |      |       |       | J             | T004SDX | 01     | T004SDX  | 00   | 1          | DCF              | B1    |                     | 10B                | YI04CB4 BUSS       |                    |
| 20051   |        | XA419     | 27  |        | XA404     | 11  |             | CI   | 1EB   | 9     |               | T004SDX | 02     | YI04CB4  | 01   | 1          | DCF              | B1    |                     | 10B                | MEM DATA D/R BIT04 |                    |
| 00593   |        | XA419     | 28  |        |           |     |             |      |       |       |               | +5V     | 01     |          |      |            | DCF              |       |                     |                    | 21B                |                    |
| 11472   |        | XA419     | 29  |        | XA422     | 26  |             |      | 16B   | 9     |               | T004SOX | 01     | T004SOX  | 00   | 1          | DCF              | B2    |                     |                    | 11B                |                    |
| 11580   |        | XA419     | 30  |        | XA422     | 25  |             |      | 16B   | 9     |               | T007SOX | 01     | T007SOX  | 00   | 1          | DCF              | B8    |                     |                    | 11A                |                    |
| 11464   |        | XA419     | 31  |        |           |     |             |      |       |       |               | T004BQ  | 07     | T004SOX  | 01   | 1          | DCF              | B2    |                     |                    | 12B                |                    |
| 02751   |        | XA419     | 32  |        |           |     |             |      |       |       |               | GND     | 01     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 11500   |        | XA419     | 33  |        |           |     |             |      |       |       |               | T005BQ  | 07     | T005SOX  | 01   | 1          | DCF              | B4    |                     |                    | 13B                |                    |
| 11572   |        | XA419     | 34  |        |           |     |             |      |       |       |               | T007BQ  | 07     | T007SOX  | 01   | 1          | DCF              | B8    |                     |                    | 12A                |                    |
| 11508   |        | XA419     | 35  |        | XA422     | 20  |             |      | 16B   | 9     |               | T005SOX | 01     | T005SOX  | 00   | 1          | DCF              | B4    |                     |                    | 14B                |                    |
| 10627   |        | XA419     | 36  |        | XA419     | 52  |             |      | 16B   | 9     |               | TDCBAA  | 04     | T004SDX  | 01   | 1          | DCF              | B1    |                     |                    | 13A                |                    |
| 20427   |        | XA419     | 36  |        |           |     |             |      |       |       | M             | TDCBAA  | 01     | T005SDX  | 01   | 1          | DCF              | B3    |                     |                    | 13A                |                    |
| 20428   |        | XA419     | 36  |        |           |     |             |      |       |       | M             | TDCBAA  | 01     | T007SDX  | 01   | 1          | DCF              | B7    |                     |                    | 13A                |                    |
| 20429   |        | XA419     | 36  |        |           |     |             |      |       |       | M             | TDCBAA  | 01     | T006SDX  | 01   | 1          | DCF              | B5    |                     |                    | 13A                |                    |
| 11507   |        | XA419     | 37  |        |           |     |             |      |       |       | J             | T005SDX | 01     | T005SDX  | 00   | 1          | DCF              | B3    |                     |                    | 15B                | YI05CB4 BUSS       |
| 20056   |        | XA419     | 37  |        | XA404     | 13  |             | CJ   | 1EB   | 9     |               | T005SDX | 02     | YI05CB4  | 01   | 1          | DCF              | B3    |                     |                    | 15B                | MEM DATA D/R BIT05 |
| 11536   |        | XA419     | 38  |        |           |     |             |      |       |       |               | T006BQ  | 07     | T006SOX  | 01   | 1          | DCF              | B6    |                     |                    | 14A                |                    |
| 20059   |        | XA419     | 39  |        |           |     |             |      |       |       |               | YI05CG  | 02     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 11544   |        | XA419     | 40  |        | XA422     | 19  |             |      | 16B   | 9     |               | T006SOX | 01     | T006SOX  | 00   | 1          | DCF              | B6    |                     |                    | 15A                |                    |
| 11543   |        | XA419     | 41  |        |           |     |             |      |       |       | J             | T006SDX | 01     | T006SDX  | 00   | 1          | DCF              | B5    |                     |                    | 16A                | YI06CB4 BUSS       |
| 20061   |        | XA419     | 41  |        | XA404     | 15  |             | CK   | 1EB   | 9     |               | T006SDX | 02     | YI06CB4  | 01   | 1          | DCF              | B5    |                     |                    | 16A                | MEM DATA D/R BIT06 |
| 20064   |        | XA419     | 42  |        |           |     |             |      |       |       |               | YI06CG  | 02     |          |      |            | DCF              |       |                     |                    | 20B                |                    |
| 11705   |        | XA419     | 43  |        |           |     |             |      |       |       | J             | T011SOX | 01     | T011SOX  | 00   | 1          | DCF              | C7    |                     |                    | 25A                | YI11CB4 BUSS       |
| 20086   |        | XA419     | 43  |        | XA404     | 25  |             | CQ   | 1EB   | 9     |               | T011SOX | 02     | YI11CB4  | 01   | 1          | DCF              | C7    |                     |                    | 25A                | MEM DATA D/R BIT11 |
| 20089   |        | XA419     | 44  |        |           |     |             |      |       |       |               | YI11CG  | 02     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 21269   |        | XA419     | 44  |        |           |     |             |      |       |       |               | GND     | 01     |          |      |            | DCF              |       |                     |                    |                    |                    |
| 20074   |        | XA419     | 45  |        |           |     |             |      |       |       |               | YI08CG  | 02     |          |      |            | DCF              |       |                     |                    | 27A                |                    |
| 11610   |        | XA419     | 46  |        |           |     |             |      |       |       | J             | T008SOX | 01     | T008SOX  | 00   | 1          | DCF              | C1    |                     |                    | 25B                | YI08CB4 BUSS       |
| 20071   |        | XA419     | 46  |        | XA404     | 19  |             | CM   | 1EB   | 9     |               | T008SOX | 02     | YI08CB4  | 01   | 1          | DCF              | C1    |                     |                    | 25B                | MEM DATA D/R BIT08 |
| 11612   |        | XA419     | 47  |        |           |     |             |      |       |       |               | T008SOX | 02     | T008SOX  | 00   | 1          | DCF              | C2    |                     |                    | 26B                |                    |
| 11706   |        | XA419     | 48  |        | XA422     | 37  |             |      | 16B   | 9     |               | T011SOX | 01     | T011SOX  | 00   | 1          | DCF              | C8    |                     |                    | 26A                |                    |
| 11603   |        | XA419     | 49  |        |           |     |             |      |       |       |               | T008BQ  | 07     | T008SOX  | 01   | 1          | DCF              | C2    |                     |                    | 27B                |                    |
| 11698   |        | XA419     | 50  |        |           |     |             |      |       |       |               | T011BQ  | 07     | T011SOX  | 01   | 1          | DCF              | C8    |                     |                    | 28A                |                    |
| 11634   |        | XA419     | 51  |        |           |     |             |      |       |       |               | T009BQ  | 07     | T009SOX  | 01   | 1          | DCF              | C4    |                     |                    | 28B                |                    |
| CONNECTOR XA419 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |               |         |        |          |      |            |                  |       |                     |                    |                    |                    |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA419  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 295

| RECORD NUMBER | FROM   |                                 |     | TO     |           |     | WIRE |             |      |      |       | SIGNAL  | SEQ NO | EQUATION | TR1 | FACTOR | CNT OR CHIP TYPE | OHM | LNAG OR POWER PLANE | TEST POINTS AND JT | SIGNAL DESCRIPTION | ECO NO             |
|---------------|--------|---------------------------------|-----|--------|-----------|-----|------|-------------|------|------|-------|---------|--------|----------|-----|--------|------------------|-----|---------------------|--------------------|--------------------|--------------------|
|               | PREFIX | CONNECTOR                       | PIN | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COIL | IDENT |         |        |          |     |        |                  |     |                     |                    |                    |                    |
| 10626         |        | XA419                           | 52  |        | XA416     | 52  |      |             | 16B  | 9    |       |         |        |          |     |        |                  |     |                     |                    |                    |                    |
| 20430         |        | XA419                           | 52  |        |           |     |      |             |      |      | M     | TDCBAA  | 05     | TD08SDX  | 01  | 1      | DCF              | C1  |                     |                    | 29A                |                    |
| 20431         |        | XA419                           | 52  |        |           |     |      |             |      |      | M     | TDCBAA  | 01     | TD09SDX  | 01  | 1      | DCF              | C3  |                     |                    | 29A                |                    |
| 20432         |        | XA419                           | 52  |        |           |     |      |             |      |      | M     | TDCBAA  | 01     | TD11SDX  | 01  | 1      | DCF              | C7  |                     |                    | 29A                |                    |
| 20079         |        | XA419                           | 53  |        |           |     |      |             |      |      |       | TDCBAA  | 01     | TD10SDX  | 01  | 1      | DCF              | C5  |                     |                    | 29A                |                    |
| 11665         |        | XA419                           | 54  |        |           |     |      |             |      |      |       | Y109CG  | 02     |          |     |        | DCF              |     |                     |                    |                    |                    |
| 11641         |        | XA419                           | 55  |        |           |     |      |             |      |      | J     | TD10BQ  | 07     | TD10SDX  | 01  | 1      | DCF              | C6  |                     |                    | 30A                |                    |
| 20076         |        | XA419                           | 55  |        |           |     |      |             |      |      | J     | TD09SDX | 01     | TD09SDX  | 00  | 1      | DCF              | C3  |                     |                    | 30B                | Y109CB4 BUSS       |
| 11642         |        | XA419                           | 56  |        | XA404     | 21  |      | CN          | 1E8  | 9    | P     | TD09SDX | 02     | Y109CB4  | 01  | 1      | DCF              | C3  |                     |                    | 30B                | MEM DATA D/R BIT09 |
| 11675         |        | XA419                           | 57  |        | XA422     | 36  |      |             | 16B  | 9    |       | TD09SDX | 01     | TD09SDX  | 00  | 1      | DCF              | C4  |                     |                    | 29B                |                    |
| 20084         |        | XA419                           | 58  |        | XA422     | 31  |      |             | 16B  | 9    |       | TD10SDX | 01     | TD10SDX  | 00  | 1      | DCF              | C6  |                     |                    | 31A                |                    |
| 21270         |        | XA419                           | 58  |        |           |     |      |             |      |      |       | Y110CG  | 02     |          |     |        | DCF              |     |                     |                    |                    |                    |
| 20109         |        | XA419                           | 59  |        |           |     |      |             |      |      |       | GND     | 01     |          |     |        | DCF              |     |                     |                    |                    |                    |
| 11672         |        | XA419                           | 60  |        |           |     |      |             |      |      | J     | Y115CG  | 02     |          |     |        | DCF              |     |                     |                    |                    |                    |
| 20061         |        | XA419                           | 60  |        |           |     |      |             |      |      | J     | TD10SDX | 01     | TD10SDX  | 00  | 1      | DCF              | C5  |                     |                    | 31B                | Y110CB4 BUSS       |
| 11837         |        | XA419                           | 61  |        | XA404     | 23  |      | CP          | 1E8  | 9    | P     | TD10SDX | 02     | Y110CB4  | 01  | 1      | DCF              | C5  |                     |                    | 31B                | MEM DATA D/R BIT10 |
| 20106         |        | XA419                           | 61  |        | XA404     | 33  |      |             |      |      | J     | TD15SDX | 01     | TD15SDX  | 00  | 1      | DCF              | D7  |                     |                    | 33A                | Y115CB4 BUSS       |
| 01430         |        | XA419                           | 62  |        | XA404     | 33  |      | CU          | 1E8  | 9    | P     | TD15SDX | 02     | Y115CB4  | 01  | 1      | DCF              | D7  |                     |                    | 33A                | MEM DATA D/R BIT19 |
| 01431         |        | XA419                           | 63  |        |           |     |      |             |      |      |       | DNW     | 01     |          |     |        | DCF              |     |                     |                    |                    |                    |
| 01432         |        | XA419                           | 64  |        |           |     |      |             |      |      |       | DNW     | 01     |          |     |        | DCF              |     |                     |                    |                    |                    |
| 11740         |        | XA419                           | 65  |        |           |     |      |             |      |      | J     | TD12SDX | 01     | TD12SDX  | 00  | 1      | DCF              | D1  |                     |                    | 32B                | Y112CB4 BUSS       |
| 20091         |        | XA419                           | 65  |        | XA404     | 27  |      | CR          | 1E8  | 9    | P     | TD12SDX | 02     | Y112CB4  | 01  | 1      | DCF              | D1  |                     |                    | 32B                | MEM DATA D/R BIT12 |
| 01433         |        | XA419                           | 66  |        |           |     |      |             |      |      |       | DNW     | 01     |          |     |        | DCF              |     |                     |                    |                    |                    |
| 20094         |        | XA419                           | 67  |        |           |     |      |             |      |      |       | Y112CG  | 02     |          |     |        | DCF              |     |                     |                    |                    |                    |
| 21271         |        | XA419                           | 67  |        |           |     |      |             |      |      |       | GND     | 01     |          |     |        | DCF              |     |                     |                    |                    |                    |
| 11638         |        | XA419                           | 68  |        | XA422     | 49  |      |             | 16B  | 9    |       | TD15SDX | 01     | TD15SDX  | 00  | 1      | DCF              | D8  |                     |                    | 34A                |                    |
| 11741         |        | XA419                           | 69  |        | XA422     | 56  |      |             | 16B  | 9    |       | TD12SDX | 01     | TD12SDX  | 00  | 1      | DCF              | D2  |                     |                    | 33B                |                    |
| 11834         |        | XA419                           | 70  |        |           |     |      |             |      |      |       | TD15CO  | 03     | TD15SDX  | 01  | 1      | DCF              | D8  |                     |                    | 35A                |                    |
| 11737         |        | XA419                           | 71  |        |           |     |      |             |      |      |       | TD12CO  | 05     | TD12SDX  | 01  | 1      | DCF              | D2  |                     |                    | 34B                |                    |
| 10631         |        | XA419                           | 72  |        | XA426     | 43  |      |             | 16B  | 9    |       | TDCBAA  | 08     | TD12SDX  | 01  | 1      | DCF              | D1  |                     |                    | 36A                |                    |
| 20433         |        | XA419                           | 72  |        |           |     |      |             |      |      | M     | TDCBAA  | 01     | TD14SDX  | 01  | 1      | DCF              | D5  |                     |                    | 36A                |                    |
| 20434         |        | XA419                           | 72  |        |           |     |      |             |      |      | M     | TDCBAA  | 01     | TD15SDX  | 01  | 1      | DCF              | D7  |                     |                    | 36A                |                    |
| 20435         |        | XA419                           | 72  |        |           |     |      |             |      |      | M     | TDCBAA  | 01     | TD13SDX  | 01  | 1      | DCF              | D3  |                     |                    | 36A                |                    |
| 11758         |        | XA419                           | 73  |        | XA321     | 05  |      |             | 16B  | 9    |       | TD13BQ  | 01     | TD13SDX  | 01  | 1      | DCF              | D4  |                     |                    | 35B                |                    |
| 11798         |        | XA419                           | 74  |        |           |     |      |             |      |      |       | TD14BQ  | 08     | TD14SDX  | 01  | 1      | DCF              | D6  |                     |                    | 37A                |                    |
| 11772         |        | XA419                           | 75  |        | XA422     | 50  |      |             | 16B  | 9    |       | TD13SDX | 01     | TD13SDX  | 00  | 1      | DCF              | D4  |                     |                    | 36B                |                    |
| 11805         |        | XA419                           | 76  |        | XA422     | 43  |      |             | 16B  | 9    |       | TD14SDX | 01     | TD14SDX  | 00  | 1      | DCF              | D6  |                     |                    | 38A                |                    |
| 20099         |        | XA419                           | 77  |        |           |     |      |             |      |      |       | Y113CG  | 02     |          |     |        | DCF              |     |                     |                    |                    |                    |
| 11771         |        | XA419                           | 78  |        |           |     |      |             |      |      | J     | TD13SDX | 01     | TD13SDX  | 00  | 1      | DCF              | D3  |                     |                    | 37B                | Y113CB4 BUSS       |
| 20096         |        | XA419                           | 78  |        | XA404     | 29  |      | CS          | 1E8  | 9    | P     | TD13SDX | 02     | Y113CB4  | 01  | 1      | DCF              | D3  |                     |                    | 37B                | MEM DATA D/R BIT13 |
| 20104         |        | XA419                           | 79  |        |           |     |      |             |      |      |       | Y114CG  | 02     |          |     |        | DCF              |     |                     |                    | 40B                |                    |
| 11804         |        | XA419                           | 80  |        |           |     |      |             |      |      | J     | TD14SDX | 01     | TD14SDX  | 00  | 1      | DCF              | D5  |                     |                    | 38B                | Y114CB4 BUSS       |
| 20101         |        | XA419                           | 80  |        | XA404     | 31  |      | CT          | 1E8  | 9    | P     | TD14SDX | 02     | Y114CB4  | 01  | 1      | DCF              | D5  |                     |                    | 38B                | MEM DATA D/R BIT14 |
| 12266         |        | XA420                           | 01  |        |           |     |      |             |      |      | J     | TD27SDX | 01     | TD27SDX  | 00  | 1      | DCF              | A7  |                     |                    | 02A                | Y127CB4 BUSS       |
| 20166         |        | XA420                           | 01  |        | XA404     | 57  |      | DK          | 1E8  | 9    | P     | TD27SDX | 02     | Y127CB4  | 01  | 1      | DCF              | A7  |                     |                    | 02A                | MEM DATA D/R BIT27 |
| 20165         |        | XA420                           | 02  |        |           |     |      |             |      |      |       | Y127CG  | 02     |          |     |        | DCF              |     |                     |                    | 01A                |                    |
| 21272         |        | XA420                           | 02  |        |           |     |      |             |      |      |       | GND     | 01     |          |     |        | DCF              |     |                     |                    | 01A                |                    |
| 12267         |        | XA420                           | 03  |        | XA423     | 13  |      |             | 16B  | 9    |       | TD27SDX | 01     | TD27SDX  | 00  | 1      | DCF              | A8  |                     |                    | 03A                |                    |
| CONNECTOR     | XA420  | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |      |             |      |      |       |         |        |          |     |        |                  |     |                     |                    |                    |                    |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA420  
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| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE   |             |      | SPEC INST WIRE | SIGNAL | SEQ NO | EQUATION | TERM | FACTORY OR CHD TYPE | CART OR CHD GROUP | LOAD OR POWER PLANS | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|--------|-------------|------|----------------|--------|--------|----------|------|---------------------|-------------------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 12253   |        | XA420     | 04  |        | XA317     | 18  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     | 04A                |                    |        |
| 20154   |        | XA420     | 05  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 10625   |        | XA420     | 06  |        | XA420     | 36  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20436   |        | XA420     | 06  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20437   |        | XA420     | 06  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20438   |        | XA420     | 06  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 12153   |        | XA420     | 07  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20151   |        | XA420     | 07  |        | XA404     | 51  |        | DH          | 1EB  | 9              |        |        |          |      |                     |                   |                     | 02B                | YI24CB4 BUSS       |        |
| 12220   |        | XA420     | 08  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 02B                | MEM DATA D/R BIT24 |        |
| 12154   |        | XA420     | 09  |        | XA423     | 10  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     | 06A                |                    |        |
| 12228   |        | XA420     | 10  |        | XA423     | 07  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     | 03B                |                    |        |
| 12146   |        | XA420     | 11  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 07A                |                    |        |
| 00594   |        | XA420     | 12  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 04B                |                    |        |
| 12183   |        | XA420     | 13  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 08A                |                    |        |
| 12227   |        | XA420     | 14  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 05B                |                    |        |
| 20161   |        | XA420     | 14  |        | XA404     | 55  |        | DJ          | 1EB  | 9              |        |        |          |      |                     |                   |                     | 08B                | YI26CB4 BUSS       |        |
| 12191   |        | XA420     | 15  |        | XA423     | 05  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     | 08B                | MEM DATA D/R BIT26 |        |
| 20164   |        | XA420     | 16  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 06B                |                    |        |
| 21273   |        | XA420     | 16  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 12190   |        | XA420     | 17  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20156   |        | XA420     | 17  |        | XA404     | 53  |        | DI          | 1EB  | 9              |        |        |          |      |                     |                   |                     | 07B                | YI25CB4 BUSS       |        |
| 01434   |        | XA420     | 18  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 07B                | MEM DATA D/R BIT25 |        |
| 20159   |        | XA420     | 19  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 01435   |        | XA420     | 20  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20189   |        | XA420     | 21  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 01436   |        | XA420     | 22  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 12409   |        | XA420     | 23  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20186   |        | XA420     | 23  |        | XA404     | 65  |        | DP          | 1EB  | 9              |        |        |          |      |                     |                   |                     | 10A                | YI31CB4 BUSS       |        |
| 01437   |        | XA420     | 24  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 10A                | MEM DATA D/R BIT31 |        |
| 20174   |        | XA420     | 25  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 01438   |        | XA420     | 26  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 12301   |        | XA420     | 27  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20171   |        | XA420     | 27  |        | XA404     | 59  |        | DL          | 1EB  | 9              |        |        |          |      |                     |                   |                     | 10B                | YI28CB4 BUSS       |        |
| 00595   |        | XA420     | 28  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 10B                | MEM DATA D/R BIT28 |        |
| 12302   |        | XA420     | 29  |        | XA423     | 26  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     | 21B                |                    |        |
| 12410   |        | XA420     | 30  |        | XA423     | 25  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     | 11B                |                    |        |
| 12294   |        | XA420     | 31  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 11A                |                    |        |
| 02752   |        | XA420     | 32  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 12B                |                    |        |
| 12323   |        | XA420     | 33  |        | XA317     | 34  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     |                    |                    |        |
| 12397   |        | XA420     | 34  |        | XA317     | 48  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     |                    |                    |        |
| 12337   |        | XA420     | 35  |        | XA423     | 20  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     |                    |                    |        |
| 10626   |        | XA420     | 36  |        | XA419     | 36  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20439   |        | XA420     | 36  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20440   |        | XA420     | 36  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20441   |        | XA420     | 36  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 12336   |        | XA420     | 37  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |
| 20176   |        | XA420     | 37  |        | XA404     | 61  |        | DM          | 1EB  | 9              |        |        |          |      |                     |                   |                     | 13A                | YI29CB4 BUSS       |        |
| 12366   |        | XA420     | 38  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 15B                | MEM DATA D/R BIT29 |        |
| 20179   |        | XA420     | 39  |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 15B                |                    |        |
| 12374   |        | XA420     | 40  |        | XA423     | 19  |        |             | 16B  | 9              |        |        |          |      |                     |                   |                     | 14A                |                    |        |
|   |        |           |     |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     | 15A                |                    |        |
| CONNECTOR (XA420) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |        |             |      |                |        |        |          |      |                     |                   |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA420  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 297

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SPEC. INST. MARKS | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCL OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|-------------------|----------|--------|----------|------|--------|------------------|-------|---------------------|---------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |                   |          |        |          |      |        |                  |       |                     |                     |                    |        |
| 12373   |        | XA420     | 41  |        |           |     |             |      |       |       |                   | TD30SDX  | 01     | TD30SDX  | 00   | 1      | DCF              | B5    |                     | 16A                 | YI30CB4 BUSS       |        |
| 20181   |        | XA420     | 41  |        | XA404     | 63  |             | DN   | 1EB   | 9     |                   | TD30SDX  | 02     | YI30CB4  | 01   | 1      | DCF              | B5    |                     | 16A                 | MEM DATA D/R BIT30 |        |
| 20184   |        | XA420     | 42  |        |           |     |             |      |       |       |                   | YI30CG   | 02     |          |      |        | DCF              |       |                     | 20B                 |                    |        |
| 20506   |        | XA420     | 43  |        |           |     |             |      |       |       |                   | TMMICDX  | 01     | TMMICDX  | 00   | 1      | DCF              | C7    |                     | 25A                 | YMMICB BUSS        |        |
| 21115   |        | XA420     | 43  |        | XA514     | 17  |             |      | 16B   | 9     |                   | TMMICDX  | 04     | YMMICB   | 01   | 2      | DCF              | C7    |                     | 25A                 |                    | B36    |
| 20505   |        | XA420     | 44  |        |           |     |             |      |       |       |                   | YMMICG   | 03     |          |      |        | DCF              |       |                     |                     |                    |        |
| 21274   |        | XA420     | 44  |        |           |     |             |      |       |       |                   | GND      | 01     |          |      |        | DCF              |       |                     |                     |                    |        |
| 10833   |        | XA420     | 45  |        |           |     |             |      |       |       |                   | TDI3ADG4 | 02     |          |      |        | DCF              |       |                     | 27A                 |                    |        |
| 10835   |        | XA420     | 46  |        | XA303     | 13  |             | AQ   | 1EB   | 9     |                   | TDI3ADX4 | 02     | TDI3ADX4 | 00   | 1      | DCF              | C1    |                     | 25B                 |                    |        |
| 10842   |        | XA420     | 47  |        |           |     |             |      |       |       |                   | TDI3A0X  | 02     | TDI3A0X  | 00   | 1      | DCF              | C2    |                     | 26B                 | EXT DATA INPUT RE  |        |
| 20507   |        | XA420     | 48  |        |           |     |             |      |       |       |                   | TMMICDX  | 01     | TMMICDX  | 00   | 1      | DCF              | C8    |                     | 26A                 |                    |        |
| 10709   |        | XA420     | 49  |        | XA420     | 51  |             |      | 16B   | 9     |                   | TGND4    | 04     | TDI3A0X  | 01   | 1      | DCF              | C2    |                     | 27B                 |                    |        |
| 14318   |        | XA420     | 50  |        |           |     |             |      |       |       |                   | TMRUM0   | 02     | TMMICDX  | 01   | 1      | DCF              | C8    |                     | 28A                 |                    |        |
| 10710   |        | XA420     | 51  |        | XA417     | 52  |             |      | 16B   | 9     |                   | TGND4    | 05     | TDI7A0X  | 01   | 1      | DCF              | C4    |                     | 28B                 |                    |        |
| 10708   |        | XA420     | 52  |        | XA421     | 39  |             |      | 16B   | 9     |                   | TEGND4   | 145    | TDI3ADX4 | 01   | 1      | DCF              | C1    |                     | 29A                 |                    | B03    |
| 20457   |        | XA420     | 52  |        |           |     |             |      |       |       |                   | TEGND4   | 01     | TRQ4ADX4 | 01   | 1      | DCF              | C5    |                     | 29A                 |                    | B03    |
| 20458   |        | XA420     | 52  |        |           |     |             |      |       |       |                   | TEGND4   | 01     | TDI7ADX4 | 01   | 1      | DCF              | C3    |                     | 29A                 |                    | B03    |
| 20459   |        | XA420     | 52  |        |           |     |             |      |       |       |                   | TEGND4   | 01     | TMMICDX  | 01   | 1      | DCF              | C7    |                     | 29A                 |                    | B03    |
| 10941   |        | XA420     | 53  |        |           |     |             |      |       |       |                   | TDI7ADG4 | 02     |          |      |        | DCF              |       |                     |                     |                    |        |
| 10707   |        | XA420     | 54  |        | XA420     | 49  |             |      | 16B   | 9     |                   | TGND4    | 02     | TRQ4A0X  | 01   | 1      | DCF              | C6    |                     | 30A                 |                    | B02    |
| 10943   |        | XA420     | 55  |        | XA303     | 23  |             | AU   | 1EB   | 9     |                   | TDI7A0X4 | 02     | TDI7A0X4 | 00   | 1      | DCF              | C3    |                     | 30B                 |                    |        |
| 10949   |        | XA420     | 56  |        | XA426     | 20  |             |      | 16B   | 9     |                   | TDI7A0X  | 01     | TDI7A0X  | 00   | 1      | DCF              | C4    |                     | 29B                 | EXT DATA INPUT RE  |        |
| 15378   |        | XA420     | 57  |        |           |     |             |      |       |       |                   | TRQ4A0X  | 02     | TRQ4A0X  | 00   | 1      | DCF              | C6    |                     | 31A                 | EXT REQ 4 REC      |        |
| 15371   |        | XA420     | 58  |        |           |     |             |      |       |       |                   | TRQ4ADG4 | 02     |          |      |        | DCF              |       |                     |                     |                    |        |
| 21275   |        | XA420     | 58  |        |           |     |             |      |       |       |                   | GND      | 01     |          |      |        | DCF              |       |                     |                     |                    |        |
| 09733   |        | XA420     | 59  | 3      | XA303     | 30  |             | 3    | 16B   | 9     |                   | TCMDADG4 | 01     |          |      |        | DCF              |       |                     |                     |                    |        |
| 15373   |        | XA420     | 60  |        | XA303     | 45  |             | BM   | 1EB   | 9     |                   | TRQ4ADX4 | 02     | TRQ4ADX4 | 00   | 1      | DCF              | C5    |                     | 31B                 |                    |        |
| 09737   |        | XA420     | 61  |        |           |     |             |      |       |       |                   | TCMDADX4 | 03     | TCMDADX4 | 00   | 1      | DCF              | D7    |                     | 33A                 | EXT COMMAND        |        |
| 01439   |        | XA420     | 62  |        |           |     |             |      |       |       |                   | DNW      | 01     |          |      |        | DCF              |       |                     |                     |                    |        |
| 01440   |        | XA420     | 63  |        |           |     |             |      |       |       |                   | DNW      | 01     |          |      |        | DCF              |       |                     |                     |                    |        |
| 01441   |        | XA420     | 64  |        |           |     |             |      |       |       |                   | DNW      | 01     |          |      |        | DCF              |       |                     |                     |                    |        |
| 09893   |        | XA420     | 65  |        |           |     |             |      |       |       |                   | TMRSDDX  | 02     | TMRSDDX  | 00   | 1      | DCF              | D1    |                     | 32B                 | IOM ON LINE        | D03    |
| 21461   |        | XA420     | 65  |        |           |     |             |      |       |       |                   | TMRSDDX  | 03     | YMR50B   | 01   | 1      | DCF              | D1    |                     | 32B                 |                    | D03    |
| 01442   |        | XA420     | 66  |        |           |     |             |      |       |       |                   | DNW      | 01     |          |      |        | DCF              |       |                     |                     |                    |        |
| 21276   |        | XA420     | 67  |        |           |     |             |      |       |       |                   | GND      | 01     |          |      |        | DCF              |       |                     |                     |                    |        |
| 20406   |        | XA420     | 68  |        |           |     |             |      |       |       |                   | TCMDA0X  | 01     | TCMDA0X  | 00   | 1      | DCF              | D8    |                     | 34A                 |                    |        |
| 20407   |        | XA420     | 69  |        |           |     |             |      |       |       |                   | TMRSDDX  | 01     | TMRSDDX  | 00   | 1      | DCF              | D2    |                     | 33B                 |                    | D03    |
| 09743   |        | XA420     | 70  |        | XA305     | 66  |             |      | 16B   | 9     |                   | TCMDBQ   | 02     | TCMDA0X  | 01   | 1      | DCF              | D8    |                     | 35A                 |                    |        |
| 09895   |        | XA420     | 71  |        |           |     |             |      |       |       |                   | TBT120   | 04     | TMRSDDX  | 01   | 1      | DCF              | D2    |                     | 34B                 |                    | D03    |
| 20474   |        | XA420     | 72  |        |           |     |             |      |       |       |                   | TEGND4   | 01     | TENAADX4 | 01   | 1      | DCF              | D5    |                     | 36A                 |                    |        |
| 20475   |        | XA420     | 72  |        |           |     |             |      |       |       |                   | TEGND4   | 01     | TCSJADX4 | 01   | 1      | DCF              | D3    |                     | 36A                 |                    |        |
| 20476   |        | XA420     | 72  |        | XA420     | 52  |             |      | 16B   | 9     |                   | TEGND4   | 14     | TCMDADX4 | 01   | 1      | DCF              | D7    |                     | 36A                 |                    | B02    |
| 21460   |        | XA420     | 72  |        |           |     |             |      |       |       |                   | TEGND4   | 01     | TMRSDDX  | 01   | 1      | DCF              | D1    |                     | 36A                 |                    | D03    |
| 09947   |        | XA420     | 73  |        |           |     |             |      |       |       |                   | TCSJAO   | 02     | TCSJAOX  | 01   | 1      | DCF              | D4    |                     | 35B                 |                    |        |
| 12523   |        | XA420     | 74  |        | XA426     | 66  |             |      | 16B   | 9     |                   | TENACO   | 01     | TENAAX   | 01   | 1      | DCF              | D6    |                     | 37A                 |                    |        |
| 20410   |        | XA420     | 75  |        |           |     |             |      |       |       |                   | TCSJAOX  | 01     | TCSJAOX  | 00   | 1      | DCF              | D4    |                     | 36B                 |                    |        |
| 20477   |        | XA420     | 76  |        |           |     |             |      |       |       |                   | TENAAX   | 01     | TENAAX   | 00   | 1      | DCF              | D6    |                     | 38A                 |                    |        |
| 20841   |        | XA420     | 77  |        |           |     |             |      |       |       |                   | TCSDADG4 | 02     |          |      |        | DCF              |       |                     |                     |                    |        |
| 09945   |        | XA420     | 78  |        |           |     |             |      |       |       |                   | TCSJADX4 | 02     | TCSJADX4 | 00   | 1      | DCF              | D3    |                     | 37B                 | CHANNEL SELECT #0  |        |
| 12511   |        | XA420     | 79  |        |           |     |             |      |       |       |                   | TENAADG4 | 02     |          |      |        | DCF              |       |                     | 40B                 |                    |        |
| CONNECTOR (XA420) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |                   |          |        |          |      |        |                  |       |                     |                     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA420  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 298

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO   | EQUATION | TERM       | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO            |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|----------|----------|------------|--------|------------------|-------|---------------------|--------------------|--------------------|-------------------|
|   | PREFIX | CONNECTOR | PIN | SIZE | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR | IDENT |        |          |          |            |        |                  |       |                     |                    |                    |                   |
| 12512   |        | XA420     | 80  |      |        | XA411     | 10  |      |             |      | 16B   | 9     |        | TENAADX4 | 01       | TENAADX400 | 1      | DCF              | D5    |                     | 38B                | EXT ENABLE         |                   |
| 06826   |        | XA421     | 01  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 02753   |        | XA421     | 02  |      |        |           |     |      |             |      |       |       |        | GND      | 01       |            |        | ACF              |       |                     |                    | 01B                |                   |
| 07943   |        | XA421     | 03  |      |        |           |     |      |             |      |       |       |        | SPO      | 01       |            | 00     | ACF              | A3    |                     |                    | 02A                |                   |
| 06827   |        | XA421     | 04  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 05882   |        | XA421     | 05  |      |        | XA121     | 46  |      |             |      | 16B   | 9     |        | SPI033   | 31       |            | 01     | ACF              | A3    |                     |                    | 04B                |                   |
| 00242   |        | XA421     | 06  |      |        | XA421     | 74  |      |             |      | 16B   | 9     |        | +5AXIC   | 10       |            |        | ACF              |       |                     |                    |                    | B06               |
| 20224   |        | XA421     | 07  |      |        | XA421     | 19  |      |             |      | 16B   | 9     |        | ZDDDR1   | 04       | TMRRAD4    | 01     | ACF              | A1    |                     |                    | 03A                |                   |
| 05818   |        | XA421     | 08  |      |        | XA424     | 13  |      |             |      | 16B   | 9     |        | SPI032   | 02       |            | 01     | ACF              | A3    |                     |                    | 05B                |                   |
| 12935   |        | XA421     | 09  |      |        | XA432     | 7   |      |             |      | 16B   | 9     |        | TFI0RA   | 02       | TMRRAD4    | 01     | ACF              | A1    |                     |                    | 04A                | C11               |
| 03787   |        | XA421     | 10  |      |        | XA318     | 76  |      |             |      | 16B   | 9     |        | JMTSBD4  | 01       | JMTSBD4    | 00     | ACF              | A2    |                     |                    | 06B                |                   |
| 14183   |        | XA421     | 11  |      |        | XA318     | 75  |      |             |      | 16B   | 9     |        | TMRRAD4  | 01       | TMRRAD4    | 00     | ACF              | A1    |                     |                    | 05A                | IOU RESET = DDI + |
| 00596   |        | XA421     | 12  |      |        |           |     |      |             |      |       |       |        | +5V      | 01       |            |        | ACF              |       |                     |                    | 21B                |                   |
| 15626   |        | XA421     | 13  |      |        |           |     |      |             |      |       |       |        | TSN1BQ   | 03       | YSN1CGX501 | 1      | ACF              | B1    |                     |                    | 06A                |                   |
| 20522   |        | XA421     | 13  |      |        |           |     |      |             |      |       |       |        | TSN1BQ   | 01       | YSN2CGX501 | 1      | ACF              | C1    |                     |                    | 06A                |                   |
| 06828   |        | XA421     | 14  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 14382   |        | XA421     | 15  |      |        |           |     |      |             |      |       |       |        | JMTSAA   | 02       | JMTSBD4    | 01     | ACF              | A2    |                     |                    | 07B                |                   |
| 02754   |        | XA421     | 16  |      |        |           |     |      |             |      |       |       |        | GND      | 01       |            |        | ACF              |       |                     |                    | 20B                |                   |
| 20193   |        | XA421     | 17  |      |        |           |     |      |             |      |       |       |        | ZDDDR2   | 02       | YSN1CGX501 | 2      | ACF              | B1    |                     |                    | 07A                | B06               |
| 20813   |        | XA421     | 17  |      |        |           |     |      |             |      |       |       |        | ZDDDR2   | 01       | YSN2CGX501 | 2      | ACF              | C1    |                     |                    | 07A                | B06               |
| 06829   |        | XA421     | 18  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 20223   |        | XA421     | 19  |      |        | XA437     | 79  |      |             |      | 16B   | 9     |        | ZDDDR1   | 05       | JMTSBD4    | 01     | ACF              | A2    |                     |                    | 08B                | E03               |
| 06830   |        | XA421     | 20  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 06831   |        | XA421     | 21  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 06832   |        | XA421     | 22  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 20210   |        | XA421     | 23  |      |        | XA404     | 76  |      |             | HB   | 1EB   | 9     |        | YSN2CGX5 | 03       | YSN2CGX500 | 1      | ACF              | C1    |                     |                    |                    |                   |
| 06833   |        | XA421     | 24  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 20212   |        | XA421     | 25  |      |        | XA404     | 75  |      |             | HB   | 1EB   | 0     |        | YSN2CHX  | 01       | YSN2CHX    | 00     | ACF              | C2    |                     |                    |                    | MEM SYNC 2 REC    |
| 06834   |        | XA421     | 26  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 20209   |        | XA421     | 27  |      |        | XA421     | 23  |      |             |      | 16B   | 9     |        | YSN2CGX5 | 02       |            |        | ACF              | RC    |                     |                    |                    |                   |
| 00597   |        | XA421     | 28  |      |        |           |     |      |             |      |       |       |        | +5V      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 20207   |        | XA421     | 29  |      |        |           |     |      |             |      |       |       |        | YSN1CHX  | 02       | YSN1CHX    | 00     | ACF              | B2    |                     |                    |                    | MEM SYNC 1 DRV    |
| 06835   |        | XA421     | 30  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 20203   |        | XA421     | 31  |      |        | XA421     | 33  |      |             |      | 16B   | 9     |        | YSN1CGX5 | 02       | YSN1CGX503 | 1      | ACF              | B1    |                     |                    |                    |                   |
| 02755   |        | XA421     | 32  |      |        |           |     |      |             |      |       |       |        | GND      | 01       |            |        | ACF              |       |                     |                    | 40A                |                   |
| 20204   |        | XA421     | 33  |      |        |           |     |      |             |      |       |       |        | YSN1CGX5 | 03       |            |        | ACF              | RB    |                     |                    |                    |                   |
| 06836   |        | XA421     | 34  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 06837   |        | XA421     | 35  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 06838   |        | XA421     | 36  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 05827   |        | XA421     | 37  |      |        | XA416     | 36  |      |             |      | 16B   | 9     |        | SPI032   | 11       |            | 01     | ACF              | D2    |                     |                    | 18A                |                   |
| 06839   |        | XA421     | 38  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 12509   |        | XA421     | 39  |      |        |           |     |      |             |      |       |       |        | TEGNDA   | 15       | YSN2CHX    | 01     | ACF              | C2    |                     |                    | 20A                |                   |
| 06840   |        | XA421     | 40  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 05826   |        | XA421     | 41  |      |        | XA421     | 37  |      |             |      | 16B   | 9     |        | SPI032   | 10       | YSN1CHX    | 01     | ACF              | B2    |                     |                    | 22A                |                   |
| 06841   |        | XA421     | 42  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    |                    |                   |
| 05825   |        | XA421     | 43  |      |        | XA421     | 41  |      |             |      | 16B   | 9     |        | SPI032   | 09       |            | 01     | ACF              | E2    |                     |                    | 23A                |                   |
| 21277   |        | XA421     | 44  |      |        |           |     |      |             |      |       |       |        | GND      | 01       |            |        | ACF              |       |                     |                    | 40B                |                   |
| 00227   |        | XA421     | 45  |      |        |           |     |      |             |      |       |       |        | SPP      | 01       |            |        | ACF              |       |                     |                    | 08A                | B06               |
| CONNECTOR (XA421) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |          |          |            |        |                  |       |                     |                    |                    |                   |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA421  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 299

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |        | SIGNAL | SFC NO  | EQUATION | TERM    | FACTOR | CMT OR CHIP TYPE | DUAL | LOAD OR POWER PLANE | TEST POINTS (AND DR) | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|--------|--------|---------|----------|---------|--------|------------------|------|---------------------|----------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COL-OR |        |         |          |         |        |                  |      |                     |                      |                    |                  |
| 06842   |        | XA421     | 46  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 06843   |        | XA421     | 47  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 06844   |        | XA421     | 48  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 07944   |        | XA421     | 46  |        |           |     |      |             |      |        |        | SPO     | C1       | 00      | 1      | ACF              | E2   |                     |                      |                    |                  |
| 06845   |        | XA421     | 50  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 07945   |        | XA421     | 51  |        |           |     |      |             |      |        |        | SPO     | 01       | 00      | 1      | ACF              | E1   |                     |                      |                    |                  |
| 06846   |        | XA421     | 52  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 07808   |        | XA421     | 53  |        |           |     |      |             |      |        |        | SPR     | 01       |         |        | ACF              | RD   |                     |                      |                    |                  |
| 06847   |        | XA421     | 54  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 07809   |        | XA421     | 55  |        |           |     |      |             |      |        |        | SPR     | 01       |         |        | ACF              | RE   |                     |                      |                    |                  |
| 06848   |        | XA421     | 56  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 07946   |        | XA421     | 57  |        |           |     |      |             |      |        |        | SPO     | 01       | 00      | 1      | ACF              | D2   |                     |                      |                    |                  |
| 02756   |        | XA421     | 58  |        |           |     |      |             |      |        |        | GND     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 07947   |        | XA421     | 59  |        |           |     |      |             |      |        |        | SPO     | 01       | 00      | 1      | ACF              | D1   |                     |                      |                    |                  |
| 06849   |        | XA421     | 60  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 06850   |        | XA421     | 61  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 06851   |        | XA421     | 62  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 06852   |        | XA421     | 63  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 05824   |        | XA421     | 64  |        | XA423     | 61  |      |             | 16B  | 9      |        | SPI033  | 125      | YSN2CTX | 01     | 1                | ACF  | C3                  |                      | 34A                |                  |
| 20220   |        | XA421     | 65  |        |           |     |      |             |      |        |        | YSN2CTX | 07       | YSN2CTX | 00     | 1                | ACF  | C3                  |                      | 32A                |                  |
| 05863   |        | XA421     | 66  |        | XA421     | 64  |      |             | 16B  | 9      |        | SPI033  | 12       | YSN1CTX | 01     | 1                | ACF  | B3                  |                      | 34B                |                  |
| 02757   |        | XA421     | 67  |        |           |     |      |             |      |        |        | GND     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 05862   |        | XA421     | 68  |        | XA421     | 66  |      |             | 16B  | 9      |        | SPI033  | 11       |         | 01     | 1                | ACF  | E3                  |                      | 36A                |                  |
| 20832   |        | XA421     | 69  |        |           |     |      |             |      |        | M      | YSN1CTX | 01       | YSN1CTX | 00     | 1                | ACF  | B3                  |                      | 35B                |                  |
| 06853   |        | XA421     | 70  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 05861   |        | XA421     | 71  |        | XA421     | 68  |      |             | 16B  | 9      |        | SPI033  | 10       |         | 01     | 1                | ACF  | D3                  |                      | 36B                |                  |
| 07948   |        | XA421     | 72  |        |           |     |      |             |      |        |        | SPO     | 01       |         | 00     | 1                | ACF  | E3                  |                      | 38A                |                  |
| 07949   |        | XA421     | 73  |        |           |     |      |             |      |        |        | SPO     | 01       |         | 00     | 1                | ACF  | D3                  |                      | 38B                |                  |
| 00241   |        | XA421     | 74  |        | XA514     | 06  |      |             | 16B  | 9      |        | +5AXIC  | 11       |         |        | ACF              |      |                     |                      |                    | B06              |
| 06854   |        | XA421     | 75  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 06855   |        | XA421     | 76  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 06856   |        | XA421     | 77  |        |           |     |      |             |      |        |        | DNW     | 01       |         |        | ACF              |      |                     |                      | KEYWAY             | C04              |
| 06857   |        | XA421     | 78  |        |           |     |      |             |      |        |        | DNW     | 01       |         |        | ACF              |      |                     |                      | KEYWAY             | C04              |
| 06858   |        | XA421     | 79  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 06859   |        | XA421     | 80  |        |           |     |      |             |      |        |        | SPP     | 01       |         |        | ACF              |      |                     |                      |                    |                  |
| 11348   |        | XA422     | 01  |        |           |     |      |             |      |        |        | TD01SA  | 02       | TD01SA  | 00     | 1                | TQ2  | A2                  |                      | 02B                | MEMORY DATA INPU |
| 02758   |        | XA422     | 02  |        |           |     |      |             |      |        |        | GND     | 01       |         |        | TQ2              |      |                     |                      | 01A                |                  |
| 14072   |        | XA422     | 03  |        | XA422     | 11  |      |             | 16B  | 9      |        | TMDCAO  | 03       | TD02SA  | 01     | 1                | TQ2  | A3                  |                      | 02A                |                  |
| 14071   |        | XA422     | 04  |        | XA422     | 03  |      |             | 16B  | 9      |        | TMDCAO  | 02       | TD01SA  | 01     | 1                | TQ2  | A2                  |                      | 04A                |                  |
| 11351   |        | XA422     | 05  |        |           |     |      |             |      |        |        | TD01SOX | 02       | TD01SA  | 01     | 2                | TQ2  | A2                  |                      | 03B                |                  |
| 11305   |        | XA422     | 06  |        |           |     |      |             |      |        |        | TD00SA  | 02       | TD00SA  | 00     | 1                | TQ2  | A1                  |                      | 05A                | MEMORY DATA INPU |
| 11391   |        | XA422     | 07  |        |           |     |      |             |      |        |        | TD02SOX | 02       | TD02SA  | 01     | 2                | TQ2  | A3                  |                      | 03A                |                  |
| 14070   |        | XA422     | 08  |        | XA422     | 04  |      |             | 16B  | 9      |        | TMDCAO  | 01       | TD00SA  | 01     | 1                | TQ2  | A1                  |                      | 06A                |                  |
| 11388   |        | XA422     | 09  |        |           |     |      |             |      |        |        | TD02SA  | 02       | TD02SA  | 00     | 1                | TQ2  | A3                  |                      | 04B                | MEMORY DATA INPU |
| 11308   |        | XA422     | 10  |        |           |     |      |             |      |        |        | TD00SOX | 02       | TD00SA  | 01     | 2                | TQ2  | A1                  |                      | 07A                |                  |
| 14073   |        | XA422     | 11  |        | XA422     | 17  |      |             | 16B  | 9      |        | TMDCAO  | 04       | TD03SA  | 01     | 1                | TQ2  | A4                  |                      | 05B                |                  |
| 00598   |        | XA422     | 12  |        |           |     |      |             |      |        |        | +5V     | 01       |         |        | TQ2              |      |                     |                      |                    |                  |
| 11437   |        | XA422     | 13  |        |           |     |      |             |      |        |        | TD03SOX | 02       | TD03SA  | 01     | 2                | TQ2  | A4                  |                      | 06B                |                  |
| CONNECTOR (XA422) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |        |        |         |          |         |        |                  |      |                     |                      |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA422  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 300

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       | SPEC INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|----------------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SIZE | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |                |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 11506         |        | XA422     | 14                              |      |        |           |     |      |             |      |       |                | TD05SA  | 02     | TD05SA   | 00   | 1      | TQ2              | B2    |                     | 09A                | MEMORY DATA INPU   |        |
| 11434         |        | XA422     | 15                              |      |        |           |     |      |             |      |       |                | TD03SA  | 02     | TD03SA   | 00   | 1      | TQ2              | A4    |                     | 07B                | MEMORY DATA INPU   |        |
| 02759         |        | XA422     | 16                              |      |        |           |     |      |             |      |       |                | GND     | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 14074         |        | XA422     | 17                              |      | XA422  | 18        |     |      |             | 16B  | 9     |                | TMDCA0  | 05     | TD06SA   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 14075         |        | XA422     | 18                              |      | XA422  | 24        |     |      |             | 16B  | 9     |                | TMDCA0  | 06     | TD05SA   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 11545         |        | XA422     | 19                              |      |        |           |     |      |             |      |       |                | TD06SOX | 02     | TD06SA   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 11509         |        | XA422     | 20                              |      |        |           |     |      |             |      |       |                | TD05SOX | 02     | TD05SA   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 11542         |        | XA422     | 21                              |      |        |           |     |      |             |      |       |                | TD06SA  | 02     | TD06SA   | 00   | 1      | TQ2              | B3    |                     | 10B                | MEMORY DATA INPU   |        |
| 11470         |        | XA422     | 22                              |      |        |           |     |      |             |      |       |                | TD04SA  | 02     | TD04SA   | 00   | 1      | TQ2              | B1    |                     | 12A                | MEMORY DATA INPU   |        |
| 14077         |        | XA422     | 23                              |      | XA422  | 29        |     |      |             | 16B  | 9     |                | TMDCA0  | 08     | TD07SA   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 14076         |        | XA422     | 24                              |      | XA422  | 23        |     |      |             | 16B  | 9     |                | TMDCA0  | 07     | TD04SA   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 11581         |        | XA422     | 25                              |      |        |           |     |      |             |      |       |                | TD07SOX | 02     | TD07SA   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 11473         |        | XA422     | 26                              |      |        |           |     |      |             |      |       |                | TD04SOX | 02     | TD04SA   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 11578         |        | XA422     | 27                              |      |        |           |     |      |             |      |       |                | TD07SA  | 02     | TD07SA   | 03   | 1      | TQ2              | B4    |                     | 13B                | MEMORY DATA INPU   |        |
| 00599         |        | XA422     | 28                              |      |        |           |     |      |             |      |       |                | +5V     | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 14078         |        | XA422     | 29                              |      | XA422  | 34        |     |      |             | 16B  | 9     |                | TMDCA0  | 09     | TD10SA   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 11640         |        | XA422     | 30                              |      |        |           |     |      |             |      |       |                | TD09SA  | 02     | TD09SA   | 00   | 1      | TQ2              | C2    |                     | 15A                | MEMORY DATA INPU   |        |
| 11674         |        | XA422     | 31                              |      |        |           |     |      |             |      |       |                | TD10SOX | 02     | TD10SA   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 02760         |        | XA422     | 32                              |      |        |           |     |      |             |      |       |                | GND     | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 11671         |        | XA422     | 33                              |      |        |           |     |      |             |      |       |                | TD10SA  | 02     | TD10SA   | 00   | 1      | TQ2              | C3    |                     | 16B                | MEMORY DATA INPU   |        |
| 14079         |        | XA422     | 34                              |      | XA422  | 40        |     |      |             | 16B  | 9     |                | TMDCA0  | 10     | TD09SA   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 14090         |        | XA422     | 35                              |      | XA407  | 33        |     |      |             | 16B  | 9     |                | TMDCB0  | 09     | TD11SA   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 11643         |        | XA422     | 36                              |      |        |           |     |      |             |      |       |                | TD09SOX | 02     | TD09SA   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 11707         |        | XA422     | 37                              |      |        |           |     |      |             |      |       |                | TD11SOX | 02     | TD11SA   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 11609         |        | XA422     | 38                              |      |        |           |     |      |             |      |       |                | TD08SA  | 02     | TD08SA   | 00   | 1      | TQ2              | C1    |                     | 18A                | MEMORY DATA INPU   |        |
| 11704         |        | XA422     | 39                              |      |        |           |     |      |             |      |       |                | TD11SA  | 02     | TD11SA   | 00   | 1      | TQ2              | C4    |                     | 19B                | MEMORY DATA INPU   |        |
| 14080         |        | XA422     | 40                              |      | XA407  | 30        |     |      |             | 16B  | 9     |                | TMDCA0  | 11     | TD08SA   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 14089         |        | XA422     | 41                              |      | XA422  | 35        |     |      |             | 16B  | 9     |                | TMDCB0  | 08     | TD14SA   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 11611         |        | XA422     | 42                              |      | XA419  | 47        |     |      |             | 16B  | 9     |                | TD08SOX | 01     | TD08SA   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 11806         |        | XA422     | 43                              |      |        |           |     |      |             |      |       |                | TD14SOX | 02     | TD14SA   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02761         |        | XA422     | 44                              |      |        |           |     |      |             |      |       |                | GND     | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 11802         |        | XA422     | 45                              |      | XA129  | 78        |     |      |             | 16B  | 9     |                | TD14SA  | 01     | TD14SA   | 00   | 1      | TQ2              | D3    |                     | 24B                | MEMORY DATA INPU   |        |
| 11769         |        | XA422     | 46                              |      | XA129  | 55        |     |      |             | 16B  | 9     |                | TD13SA  | 01     | TD13SA   | 00   | 1      | TQ2              | D2    |                     | 21A                | MEMORY DATA INPU   |        |
| 14088         |        | XA422     | 47                              |      | XA422  | 41        |     |      |             | 16B  | 9     |                | TMDCB0  | 07     | TD15SA   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 14087         |        | XA422     | 48                              |      | XA422  | 47        |     |      |             | 16B  | 9     |                | TMDCB0  | 06     | TD13SA   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 11839         |        | XA422     | 49                              |      |        |           |     |      |             |      |       |                | TD15SOX | 02     | TD15SA   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 11773         |        | XA422     | 50                              |      |        |           |     |      |             |      |       |                | TD13SOX | 02     | TD13SA   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 11836         |        | XA422     | 51                              |      |        |           |     |      |             |      |       |                | TD15SA  | 02     | TD15SA   | 00   | 1      | TQ2              | D4    |                     | 27B                | MEMORY DATA INPU   |        |
| 11739         |        | XA422     | 52                              |      |        |           |     |      |             |      |       |                | TD12SA  | 02     | TD12SA   | 00   | 1      | TQ2              | D1    |                     | 24A                | MEMORY DATA INPU   |        |
| 14085         |        | XA422     | 53                              |      | XA422  | 54        |     |      |             | 16B  | 9     |                | TMDCB0  | 04     | TD18SA   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 14086         |        | XA422     | 54                              |      | XA422  | 48        |     |      |             | 16B  | 9     |                | TMDCB0  | 05     | TD12SA   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 11950         |        | XA422     | 55                              |      |        |           |     |      |             |      |       |                | TD18SOX | 02     | TD18SA   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 11742         |        | XA422     | 56                              |      |        |           |     |      |             |      |       |                | TD12SOX | 02     | TD12SA   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 11946         |        | XA422     | 57                              |      | XA124  | 07        |     |      |             | 16B  | 9     |                | TD18SA  | 01     | TD18SA   | 00   | 1      | TQ2              | E3    |                     | 30B                | MEMORY DATA INPU   |        |
| 02762         |        | XA422     | 58                              |      |        |           |     |      |             |      |       |                | GND     | 01     |          |      |        | TQ2              |       |                     | 27A                |                    |        |
| 14084         |        | XA422     | 59                              |      | XA422  | 53        |     |      |             | 16B  | 9     |                | TMDCB0  | 03     | TD19SA   | 01   | 1      | TQ2              | E4    |                     | 31B                |                    |        |
| 11910         |        | XA422     | 60                              |      | XA124  | 04        |     |      |             | 16B  | 9     |                | TD17SA  | 01     | TD17SA   | 00   | 1      | TQ2              | E2    |                     | 28A                | MEMORY DATA INPU   |        |
| 11982         |        | XA422     | 61                              |      |        |           |     |      |             |      |       |                | TD19SOX | 02     | TD19SA   | 01   | 2      | TQ2              | E4    |                     | 32B                |                    |        |
| 14083         |        | XA422     | 62                              |      | XA422  | 59        |     |      |             | 16B  | 9     |                | TMDCB0  | 02     | TD17SA   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 11978         |        | XA422     | 63                              |      | XA124  | 13        |     |      |             | 16B  | 9     |                | TD19SA  | 01     | TD19SA   | 00   | 1      | TQ2              | E4    |                     | 33B                | MEMORY DATA INPU   |        |
| CONNECTOR     |        | XA422     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |                |         |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

UNIT ASSEMBLY NO. 149019  
 FILE IDENT T39BIUX2

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| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST | SIGNAL | SEQ NO | EQUATION | TERMS | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|----------|--------|--------|----------|-------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |          |        |        |          |       |        |                  |       |                     |                    |                    |        |
| 11914         |        | XA422     | 64                              |      |        |           |     |      |             |      |       |       | TD17SOX  | 02     | TD17SA | 01       | 2     | TQ2    | E2               |       | 30A                 |                    |                    |        |
| 14095         |        | XA422     | 65                              |      | XA423  | 11        |     |      |             | 16B  | 9     |       | TMDCCO   | 04     | TD22SA | 01       | 1     | TQ2    | F3               |       | 34B                 |                    |                    |        |
| 11871         |        | XA422     | 66                              |      | XA124  | 08        |     |      |             | 18B  | 9     |       | TD16SA   | 01     | TD16SA | 00       | 1     | TQ2    | E1               |       | 31A                 | MEMORY DATA INPU   | 801                |        |
| 02763         |        | XA422     | 67                              |      |        |           |     |      |             |      |       |       | GND      | 01     |        |          |       | TQ2    |                  |       | 40A                 |                    |                    |        |
| 14082         |        | XA422     | 68                              |      | XA422  | 62        |     |      |             | 16B  | 9     |       | TMDCBO   | 01     | TD16SA | 01       | 1     | TQ2    | E1               |       | 32A                 |                    |                    |        |
| 12081         |        | XA422     | 69                              |      | XA124  | 24        |     |      |             | 16B  | 9     |       | TD22SA   | 01     | TD22SA | 00       | 1     | TQ2    | F3               |       | 35A                 | MEMORY DATA INPU   |                    |        |
| 11875         |        | XA422     | 70                              |      |        |           |     |      |             |      |       |       | TD16SOX  | 02     | TD16SA | 01       | 2     | TQ2    | E1               |       | 33A                 |                    |                    |        |
| 14094         |        | XA422     | 71                              |      | XA422  | 68        |     |      |             | 16B  | 9     |       | TMDCBO   | 005    | TD21SA | 01       | 1     | TQ2    | F2               |       | 36A                 |                    |                    |        |
| 12045         |        | XA422     | 72                              |      | XA108  | 30        |     |      |             | 16B  | 9     |       | TD21SA   | 01     | TD21SA | 00       | 1     | TQ2    | F2               |       | 34A                 | MEMORY DATA INPU   |                    |        |
| 12049         |        | XA422     | 73                              |      |        |           |     |      |             |      |       |       | TD21SOX  | 02     | TD21SA | 01       | 2     | TQ2    | F2               |       | 36B                 |                    |                    |        |
| 12085         |        | XA422     | 74                              |      |        |           |     |      |             |      |       |       | TD22SOX  | 02     | TD22SA | 01       | 2     | TQ2    | F3               |       | 35B                 |                    |                    |        |
| 12009         |        | XA422     | 75                              |      | XA108  | 38        |     |      |             | 16B  | 9     |       | TD20SA   | 01     | TD20SA | 00       | 1     | TQ2    | F1               |       | 37B                 | MEMORY DATA INPU   |                    |        |
| 14092         |        | XA422     | 76                              |      | XA422  | 65        |     |      |             | 16B  | 9     |       | TMDCCO   | 01     | TD23SA | 01       | 1     | TQ2    | F4               |       | 37A                 |                    |                    |        |
| 14093         |        | XA422     | 77                              |      | XA422  | 71        |     |      |             | 16B  | 9     |       | TMDCBO   | 00C    | TD20SA | 01       | 1     | TQ2    | F1               |       | 38B                 |                    |                    |        |
| 12120         |        | XA422     | 78                              |      |        |           |     |      |             |      |       |       | TD23SOX  | 02     | TD23SA | 01       | 2     | TQ2    | F4               |       | 38A                 |                    |                    |        |
| 12013         |        | XA422     | 79                              |      |        |           |     |      |             |      |       |       | TD20SOX  | 02     | TD20SA | 01       | 2     | TQ2    | F1               |       | 39B                 |                    |                    |        |
| 12116         |        | XA422     | 80                              |      | XA124  | 18        |     |      |             | 16B  | 9     |       | TD23SA   | 01     | TD23SA | 00       | 1     | TQ2    | F4               |       | 39A                 | MEMORY DATA INPU   |                    |        |
| 12189         |        | XA423     | 01                              |      |        |           |     |      |             |      |       |       | TD25SA   | 02     | TD25SA | 00       | 1     | TQ2    | A2               |       | 02B                 | MEMORY DATA INPU   |                    |        |
| 02764         |        | XA423     | 02                              |      |        |           |     |      |             |      |       |       | GND      | 01     |        |          |       | TQ2    |                  |       | 01A                 |                    |                    |        |
| 14097         |        | XA423     | 03                              |      | XA423  | 04        |     |      |             | 16B  | 9     |       | TMDCCO   | 06     | TD26SA | 01       | 1     | TQ2    | A3               |       | 02A                 |                    |                    |        |
| 14098         |        | XA423     | 04                              |      | XA423  | 08        |     |      |             | 16B  | 9     |       | TMDCCO   | 07     | TD25SA | 01       | 1     | TQ2    | A2               |       | 04A                 |                    |                    |        |
| 12192         |        | XA423     | 05                              |      |        |           |     |      |             |      |       |       | TD25SOX  | 02     | TD25SA | 01       | 2     | TQ2    | A2               |       | 03B                 |                    |                    |        |
| 12152         |        | XA423     | 06                              |      |        |           |     |      |             |      |       |       | TD24SA   | 02     | TD24SA | 00       | 1     | TQ2    | A1               |       | 05A                 | MEMORY DATA INPU   |                    |        |
| 12229         |        | XA423     | 07                              |      |        |           |     |      |             |      |       |       | TD26SOX  | 02     | TD26SA | 01       | 2     | TQ2    | A3               |       | 03A                 |                    |                    |        |
| 14099         |        | XA423     | 08                              |      | XA423  | 18        |     |      |             | 16B  | 9     |       | TMDCCO   | 08     | TD24SA | 01       | 1     | TQ2    | A1               |       | 06A                 |                    |                    |        |
| 12226         |        | XA423     | 09                              |      |        |           |     |      |             |      |       |       | TD26SA   | 02     | TD26SA | 00       | 1     | TQ2    | A3               |       | 04B                 | MEMORY DATA INPU   |                    |        |
| 12155         |        | XA423     | 10                              |      |        |           |     |      |             |      |       |       | TD24SOX  | 02     | TD24SA | 01       | 2     | TQ2    | A1               |       | 07A                 |                    |                    |        |
| 14096         |        | XA423     | 11                              |      | XA423  | 03        |     |      |             | 16B  | 9     |       | TMDCCO   | 05     | TD27SA | 01       | 1     | TQ2    | A4               |       | 05B                 |                    |                    |        |
| 00600         |        | XA423     | 12                              |      |        |           |     |      |             |      |       |       | +5V      | 01     |        |          |       | TQ2    |                  |       |                     |                    |                    |        |
| 12268         |        | XA423     | 13                              |      |        |           |     |      |             |      |       |       | TD27SOX  | 02     | TD27SA | 01       | 2     | TQ2    | A4               |       | 06B                 |                    |                    |        |
| 12335         |        | XA423     | 14                              |      |        |           |     |      |             |      |       |       | TD29SA   | 02     | TD29SA | 00       | 1     | TQ2    | B2               |       | 09A                 | MEMORY DATA INPU   |                    |        |
| 12265         |        | XA423     | 15                              |      |        |           |     |      |             |      |       |       | TD27SA   | 02     | TD27SA | 00       | 1     | TQ2    | A4               |       | 07B                 | MEMORY DATA INPU   |                    |        |
| 02765         |        | XA423     | 16                              |      |        |           |     |      |             |      |       |       | GND      | 01     |        |          |       | TQ2    |                  |       | 01B                 |                    |                    |        |
| 14101         |        | XA423     | 17                              |      | XA423  | 23        |     |      |             | 16B  | 9     |       | TMDCCO   | 10     | TD30SA | 01       | 1     | TQ2    | B3               |       | 08B                 |                    |                    |        |
| 14100         |        | XA423     | 18                              |      | XA423  | 17        |     |      |             | 16B  | 9     |       | TMDCCO   | 09     | TD29SA | 01       | 1     | TQ2    | B2               |       | 10A                 |                    |                    |        |
| 12375         |        | XA423     | 19                              |      |        |           |     |      |             |      |       |       | TD30SOX  | 02     | TD30SA | 01       | 2     | TQ2    | B3               |       | 09B                 |                    |                    |        |
| 12338         |        | XA423     | 20                              |      |        |           |     |      |             |      |       |       | TD29SOX  | 02     | TD29SA | 01       | 2     | TQ2    | B2               |       | 11A                 |                    |                    |        |
| 12371         |        | XA423     | 21                              |      | XA109  | 54        |     |      |             | 16B  | 9     |       | TD30SA   | 01     | TD30SA | 00       | 1     | TQ2    | B3               |       | 10B                 | MEMORY DATA INPU   |                    |        |
| 12300         |        | XA423     | 22                              |      |        |           |     |      |             |      |       |       | TD28SA   | 02     | TD28SA | 00       | 1     | TQ2    | B1               |       | 12A                 | MEMORY DATA INPU   |                    |        |
| 14102         |        | XA423     | 23                              |      | XA423  | 24        |     |      |             | 16B  | 9     |       | TMDCCO   | 11     | TD31SA | 01       | 1     | TQ2    | B4               |       | 11B                 |                    |                    |        |
| 14103         |        | XA423     | 24                              |      | XA423  | 40        |     |      |             | 16B  | 9     |       | TMDCCO   | 12     | TD28SA | 01       | 1     | TQ2    | B1               |       | 13A                 |                    |                    |        |
| 12411         |        | XA423     | 25                              |      |        |           |     |      |             |      |       |       | TD31SOX  | 02     | TD31SA | 01       | 2     | TQ2    | B4               |       | 12B                 |                    |                    |        |
| 12303         |        | XA423     | 26                              |      |        |           |     |      |             |      |       |       | TD28SOX  | 02     | TD28SA | 01       | 2     | TQ2    | B1               |       | 14A                 |                    |                    |        |
| 12407         |        | XA423     | 27                              |      | XA109  | 41        |     |      |             | 16B  | 9     |       | TD31SA   | 01     | TD31SA | 00       | 1     | TQ2    | B4               |       | 13B                 | MEMORY DATA INPU   |                    |        |
| 00601         |        | XA423     | 28                              |      |        |           |     |      |             |      |       |       | +5V      | 01     |        |          |       | TQ2    |                  |       | 14B                 |                    |                    |        |
| 04233         |        | XA423     | 29                              |      |        |           |     |      |             |      |       |       | KMR17S   | 05     | TD107A | 01       | 1     | TQ2    | C3               |       | 14B                 |                    |                    |        |
| 11408         |        | XA423     | 30                              |      | XA134  | 78        |     |      |             | 16B  | 9     |       | TD027A   | 01     | TD027A | 00       | 1     | TQ2    | C2               |       | 15A                 | XFR CN DATA ADD A  |                    |        |
| 10577         |        | XA423     | 31                              |      | XA423  | 37        |     |      |             | 16B  | 9     |       | TDAXA0   | 04     | TD107A | 01       | 2     | TQ2    | C3               |       | 15B                 |                    |                    |        |
| CONNECTOR     |        | XA423     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |          |        |        |          |       |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA423  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 302

| RECORD NUMBER | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       | SFC INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|---------------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR |               |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 02766         |        | XA423     | 32  |      |        |           |     |      |             |      |       |               | GND     | 01     |          |      |        |                  |       |                     | 20B                |                    |        |
| 11687         |        | XA423     | 33  |      | XA228  | 73        |     |      |             | 16B  | 9     |               | TD107A  | 01     | TD107A   | 00   | 1      | TQ2              | C3    |                     | 16B                | XFR KMR17 TO TD10  |        |
| 10579         |        | XA423     | 34  |      | XA423  | 50        |     |      |             | 16B  | 9     |               | TDAXA0  | 06     | TD027A   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 04241         |        | XA423     | 35  |      |        |           |     |      |             |      |       |               | KMR18S  | 05     | TD117A   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 11411         |        | XA423     | 36  |      |        |           |     |      |             |      |       |               | TD028A  | 02     | TD027A   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 10578         |        | XA423     | 37  |      | XA423  | 34        |     |      |             | 16B  | 9     |               | TDAXA0  | 05     | TD117A   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 12430         |        | XA423     | 38  |      |        |           |     |      |             |      |       |               | TD32SA  | 02     | TD32SA   | 00   | 1      | TQ2              | C1    |                     | 18A                | MEMORY PARITY BIT  |        |
| 11718         |        | XA423     | 39  |      | XA424  | 64        |     |      |             | 16B  | 9     |               | TD117A  | 01     | TD117A   | 00   | 1      | TQ2              | C4    |                     | 19B                | XFR KMR18 TO TD11  |        |
| 14104         |        | XA423     | 40  |      | XA407  | 39        |     |      |             | 16B  | 9     |               | TMDCCO  | 13     | TD32SA   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 09226         |        | XA423     | 41  |      | XA425  | 47        |     |      |             | 16B  | 9     |               | TBSX40  | 01     | TBS29A   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 12433         |        | XA423     | 42  |      |        |           |     |      |             |      |       |               | TD32SOX | 02     | TD32SA   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 13657         |        | XA423     | 43  |      | XA426  | 46        |     |      |             | 16B  | 9     |               | TI3110  | 03     | TBS29A   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 02767         |        | XA423     | 44  |      |        |           |     |      |             |      |       |               | GND     | 01     |          |      |        |                  |       |                     | 21B                |                    |        |
| 09240         |        | XA423     | 45  |      | XA407  | 79        |     |      |             | 16B  | 9     |               | TBS29A  | 01     | TBS29A   | 00   | 1      | TQ2              | D3    |                     | 24B                | BSTP CHNL BIT 4 T  |        |
| 11786         |        | XA423     | 46  |      | XA222  | 06        |     |      |             | 16B  | 9     |               | TD137A  | 01     | TD137A   | 00   | 1      | TQ2              | D2    |                     | 21A                | XFR KMR20 TO TD13  |        |
| 09223         |        | XA423     | 47  |      | XA425  | 33        |     |      |             | 16B  | 9     |               | TBSX20  | 01     | TBS30A   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 04257         |        | XA423     | 48  |      |        |           |     |      |             |      |       |               | KMR20S  | 05     | TD137A   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 13656         |        | XA423     | 49  |      | XA423  | 43        |     |      |             | 16B  | 9     |               | TI3110  | 02     | TBS30A   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 10580         |        | XA423     | 50  |      | XA423  | 56        |     |      |             | 16B  | 9     |               | TDAXA0  | 07     | TD137A   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 09243         |        | XA423     | 51  |      |        |           |     |      |             |      |       |               | TBS30A  | 02     | TBS30A   | 00   | 1      | TQ2              | D4    |                     | 27B                | BSTP CH4 TO DATA   |        |
| 11753         |        | XA423     | 52  |      | XA424  | 75        |     |      |             | 16B  | 9     |               | TD127A  | 01     | TD127A   | 00   | 1      | TQ2              | D1    |                     | 24A                | XFR KMR17 TO TD12  |        |
| 14495         |        | XA423     | 53  |      | XA245  | 19        |     |      |             | 16B  | 9     |               | TM02CA  | 01     | TDCBA0   | 01   | 1      | TQ2              | E3    |                     | 28B                |                    |        |
| 04249         |        | XA423     | 54  |      |        |           |     |      |             |      |       |               | KMR19S  | 05     | TD127A   | 01   | 1      | TQ2              | D1    |                     | 25A                |                    |        |
| 14543         |        | XA423     | 55  |      | XA418  | 72        |     |      |             | 16B  | 9     |               | TM048P  | 05     | TDCBA0   | 01   | 2      | TQ2              | E3    |                     | 29B                |                    |        |
| 10581         |        | XA423     | 56  |      |        |           |     |      |             |      |       |               | TDAXA0  | 08     | TD127A   | 01   | 2      | TQ2              | D1    |                     | 26A                |                    |        |
| 10633         |        | XA423     | 57  |      | XA426  | 45        |     |      |             | 16B  | 9     |               | TDCBA0  | 01     | TDCBA0   | 00   | 1      | TQ2              | E3    |                     | 30B                |                    |        |
| 02768         |        | XA423     | 58  |      |        |           |     |      |             |      |       |               | GND     | 01     |          |      |        |                  |       |                     | 27A                |                    |        |
| 05823         |        | XA423     | 59  |      | XA421  | 43        |     |      |             | 16B  | 9     |               | SPI032  | 07     |          |      |        |                  |       |                     | 31B                |                    |        |
| 09230         |        | XA423     | 60  |      |        |           |     |      |             |      |       |               | TBS02A  | 02     | TBS02A   | 00   | 1      | TQ2              | E2    |                     | 28A                | INHIBIT NON-SLCTD  |        |
| 05864         |        | XA423     | 61  |      | XA423  | 65        |     |      |             | 16B  | 9     |               | SPI033  | 13     |          |      |        |                  |       |                     | 32B                |                    |        |
| 15822         |        | XA423     | 62  |      | XA434  | 76        |     |      |             | 16B  | 9     |               | TS02BQ  | 01     | TBS02A   | 01   | 1      | TQ2              | E2    |                     | 29A                |                    |        |
| 07950         |        | XA423     | 63  |      |        |           |     |      |             |      |       |               | SPO     | 01     |          |      |        |                  |       |                     | 33B                |                    |        |
| 09212         |        | XA423     | 64  |      |        |           |     |      |             |      |       |               | TBST2Q  | 07     | TBS02A   | 01   | 2      | TQ2              | E2    |                     | 30A                |                    |        |
| 05865         |        | XA423     | 65  |      | XA423  | 71        |     |      |             | 16B  | 9     |               | SPI033  | 14     |          |      |        |                  |       |                     | 34B                |                    |        |
| 09245         |        | XA423     | 66  |      |        |           |     |      |             |      |       |               | TBS31A  | 02     | TBS31A   | 00   | 1      | TQ2              | E1    |                     | 31A                | BSTP CHNL BIT 1 T  |        |
| 02769         |        | XA423     | 67  |      |        |           |     |      |             |      |       |               | GND     | 01     |          |      |        |                  |       |                     | 40A                |                    |        |
| 09220         |        | XA423     | 68  |      | XA425  | 35        |     |      |             | 16B  | 9     |               | TBSX10  | 01     | TBS31A   | 01   | 1      | TQ2              | E1    |                     | 32A                | BSTP CHNL BIT 1 T  |        |
| 07951         |        | XA423     | 69  |      |        |           |     |      |             |      |       |               | SPO     | 01     |          |      |        |                  |       |                     | 35A                |                    |        |
| 13655         |        | XA423     | 70  |      | XA423  | 49        |     |      |             | 16B  | 9     |               | TI3110  | 01     | TBS31A   | 01   | 2      | TQ2              | E1    |                     | 33A                |                    |        |
| 05866         |        | XA423     | 71  |      | XA424  | 79        |     |      |             | 16B  | 9     |               | SPI033  | 15     |          |      |        |                  |       |                     | 36A                |                    |        |
| 07952         |        | XA423     | 72  |      |        |           |     |      |             |      |       |               | SPO     | 01     |          |      |        |                  |       |                     | 34A                |                    |        |
| 05822         |        | XA423     | 73  |      | XA423  | 59        |     |      |             | 16B  | 9     |               | SPI032  | 06     |          |      |        |                  |       |                     | 36B                |                    |        |
| 05821         |        | XA423     | 74  |      | XA423  | 73        |     |      |             | 16B  | 9     |               | SPI032  | 05     |          |      |        |                  |       |                     | 35B                |                    |        |
| 14162         |        | XA423     | 75  |      | XA432  | 75        |     |      |             | 16B  | 9     |               | TMPWAA  | 00     | TMPWAA   | 00   | 1      | TQ2              | F1    |                     | 37B                | (MEMORY+CPU PWR    |        |
| 05820         |        | XA423     | 76  |      | XA423  | 74        |     |      |             | 16B  | 9     |               | SPI032  | 04     |          |      |        |                  |       |                     | 37A                | (CPU#1)            |        |
| 12917         |        | XA423     | 77  |      | XA438  | 08        |     |      |             | 16B  | 9     |               | TFIOAS  | 01     | TMPWAA   | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 05868         |        | XA423     | 78  |      | XA425  | 77        |     |      |             | 16B  | 9     |               | SPI033  | 17     |          |      |        |                  |       |                     | 38A                |                    |        |
| 15755         |        | XA423     | 79  |      | XA339  | 18        |     |      |             | 16B  | 9     |               | TS0010  | 01     | TMPWAA   | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 07953         |        | XA423     | 80  |      |        |           |     |      |             |      |       |               | SPO     | 01     |          |      |        |                  |       |                     | 39A                |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA424  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 303

| RECORD NUMBER                                   | FROM   |           |     | TO  |       |       | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GRAN | LOAD OF POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|-------|-------|-------------|------|-------|-------|--------|---------|----------|--------|--------|------------------|------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | PIN   | SH PC | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |        |        |                  |      |                     |                    |                    |        |
| 10829   |        | XA424     | 01  |     |       |       |             |      |       |       |        | TDI2XA  | 02       | TDI2A0 | 01     | 1                | TS8  | A1                  |                    | 02B                |        |
| 02770   |        | XA424     | 02  |     |       |       |             |      |       |       |        | GND     | 01       |        |        |                  |      |                     |                    | 01A                |        |
| 01443   |        | XA424     | 03  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 10826   |        | XA424     | 04  |     | XA430 | 07    |             | 16B  | 9     |       |        | TDI2BB4 | 11       | TDI2A0 | 01     | 2                | TS8  | A1                  | 04A                | BIT 2 INPUT BUS    |        |
| 19621   |        | XA424     | 05  |     | XA515 | 09    |             | 16B  | 9     |       |        | XII2AA  | 01       | TDI2A0 | 01     | 3                | TS8  | A1                  | 03B                |                    |        |
| 19624   |        | XA424     | 06  |     |       |       |             |      |       |       |        | XII2BA  | 02       | TDI2A0 | 01     | 4                | TS8  | A1                  | 05A                |                    |        |
| 04618   |        | XA424     | 07  |     | XA446 | 75    |             | 16B  | 9     |       |        | RDI2AA  | 01       | TDI2A0 | 01     | 5                | TS8  | A1                  | 03A                |                    |        |
| 05881   |        | XA424     | 08  |     | XA421 | 05    |             | 16B  | 9     |       |        | SPI033  | 30       | TDI2A0 | 01     | 6                | TS8  | A1                  | 06A                |                    |        |
| 01444   |        | XA424     | 09  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 05700   |        | XA424     | 10  |     | XA412 | 43    |             | 16B  | 9     |       |        | SPI028  | 25       | TDI2A0 | 01     | 7                | TS8  | A1                  | 07A                | INF LINE 2 + CCG01 |        |
| 10812   |        | XA424     | 11  |     |       |       |             |      |       |       |        | TDI2A0  | 03       | TDI2A0 | 00     | 1                | TS8  | A1                  | 05B                |                    |        |
| 00602   |        | XA424     | 12  |     |       |       |             |      |       |       |        | +5V     | 01       |        |        |                  |      |                     |                    |                    |        |
| 05819   |        | XA424     | 13  |     | XA423 | 76    |             | 16B  | 9     |       |        | SPI032  | 02       | TDI2A0 | 01     | 8                | TS8  | A1                  | 06B                |                    |        |
| 10856   |        | XA424     | 14  |     |       |       |             |      |       |       |        | TDI3XA  | 02       | TDI3A0 | 01     | 1                | TS8  | B1                  | 09A                | BIT 3 INPUT BUS    |        |
| 01445   |        | XA424     | 15  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 02771   |        | XA424     | 16  |     |       |       |             |      |       |       |        | GND     | 01       |        |        |                  |      |                     |                    | 21B                |        |
| 01446   |        | XA424     | 17  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 10853   |        | XA424     | 18  |     | XA430 | 09    |             | 16B  | 9     |       |        | TDI3BB4 | 11       | TDI3A0 | 01     | 2                | TS8  | B1                  | 10A                |                    |        |
| 19625   |        | XA424     | 19  |     | XA515 | 15    |             | 16B  | 9     |       |        | XII3AA  | 01       | TDI3A0 | 01     | 3                | TS8  | B1                  | 09B                |                    |        |
| 19628   |        | XA424     | 20  |     |       |       |             |      |       |       |        | XII3EA  | 02       | TDI3A0 | 01     | 4                | TS8  | B1                  | 11A                |                    |        |
| 01447   |        | XA424     | 21  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 04621   |        | XA424     | 22  |     |       |       |             |      |       |       |        | RDI3AA  | 02       | TDI3A0 | 01     | 5                | TS8  | B1                  | 12A                |                    |        |
| 10838   |        | XA424     | 23  |     | XA406 | 61    |             | 16B  | 9     |       |        | TDI3A0  | 02       | TDI3A0 | 00     | 1                | TS8  | B1                  | 11B                | INF LINE 3 + RTC   |        |
| 05699   |        | XA424     | 24  |     | XA424 | 10    |             | 16B  | 9     |       |        | SPI028  | 24       | TDI3A0 | 01     | 6                | TS8  | B1                  | 13A                |                    |        |
| 05877   |        | XA424     | 25  |     | XA427 | 23    |             | 16B  | 9     |       |        | SPI033  | 26       | TDI3A0 | 01     | 7                | TS8  | B1                  | 12B                |                    |        |
| 05915   |        | XA424     | 26  |     | XA426 | 27    |             | 16B  | 9     |       |        | SPI034  | 32       | TDI3A0 | 01     | 8                | TS8  | B1                  | 14A                |                    |        |
| 01448   |        | XA424     | 27  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 00603   |        | XA424     | 28  |     |       |       |             |      |       |       |        | +5V     | 01       |        |        |                  |      |                     |                    |                    |        |
| 01449   |        | XA424     | 29  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 10883   |        | XA424     | 30  |     |       |       |             |      |       |       |        | TDI4XA  | 02       | TDI4A0 | 01     | 1                | TS8  | C1                  | 15A                | BIT 4 INPUT BUS    |        |
| 10871   |        | XA424     | 31  |     | XA522 | 27    |             | 16B  | 9     |       |        | TDI4BB4 | 02       | TDI4A0 | 01     | 2                | TS8  | C1                  | 15R                |                    |        |
| 02772   |        | XA424     | 32  |     |       |       |             |      |       |       |        | GND     | 01       |        |        |                  |      |                     |                    | 27A                |        |
| 01450   |        | XA424     | 33  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 19629   |        | XA424     | 34  |     | XA515 | 22    |             | 16B  | 9     |       |        | XII4AA  | 01       | TDI4A0 | 01     | 3                | TS8  | C1                  | 16A                |                    |        |
| 10865   |        | XA424     | 35  |     | XA406 | 65    |             | 16B  | 9     |       |        | TDI4A0  | 02       | TDI4A0 | 00     | 1                | TS8  | C1                  | 17B                | INF LINE 4 + RTC   |        |
| 19632   |        | XA424     | 36  |     |       |       |             |      |       |       |        | XII4BA  | 02       | TDI4A0 | 01     | 4                | TS8  | C1                  | 17A                |                    |        |
| 04622   |        | XA424     | 37  |     | XA446 | 69    |             | 16B  | 9     |       |        | RDI4AA  | 01       | TDI4A0 | 01     | 5                | TS8  | C1                  | 18B                |                    |        |
| 05698   |        | XA424     | 38  |     | XA424 | 24    |             | 16B  | 9     |       |        | SPI028  | 23       | TDI4A0 | 01     | 6                | TS8  | C1                  | 18A                |                    |        |
| 01451   |        | XA424     | 39  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 05914   |        | XA424     | 40  |     | XA424 | 26    |             | 16B  | 9     |       |        | SPI034  | 31       | TDI4A0 | 01     | 7                | TS8  | C1                  | 19A                |                    |        |
| 01452   |        | XA424     | 41  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 05876   |        | XA424     | 42  |     | XA424 | 25    |             | 16B  | 9     |       |        | SPI033  | 25       | TDI4A0 | 01     | 8                | TS8  | C1                  | 20A                |                    |        |
| 10910   |        | XA424     | 43  |     |       |       |             |      |       |       |        | TDI5XA  | 02       | TDI5A0 | 01     | 1                | TS8  | D1                  | 23B                |                    |        |
| 02773   |        | XA424     | 44  |     |       |       |             |      |       |       |        | GND     | 01       |        |        |                  |      |                     |                    | 40A                |        |
| 01453   |        | XA424     | 45  |     |       |       |             |      |       |       |        | DNW     | 01       |        |        |                  |      |                     |                    |                    |        |
| 10907   |        | XA424     | 46  |     | XA430 | 26    |             | 16B  | 9     |       |        | TDI5BB4 | 11       | TDI5A0 | 01     | 2                | TS8  | D1                  | 21A                | BIT 5 INPUT BUS    |        |
| 10892   |        | XA424     | 47  |     | XA406 | 69    |             | 16B  | 9     |       |        | TDI5A0  | 02       | TDI5A0 | 00     | 1                | TS8  | D1                  | 25B                | INF LINE 5 + RTC   |        |
| 19633   |        | XA424     | 48  |     | XA515 | 14    |             | 16B  | 9     |       |        | XII5AA  | 01       | TDI5A0 | 01     | 3                | TS8  | D1                  | 22A                |                    |        |
| 19636   |        | XA424     | 49  |     |       |       |             |      |       |       |        | XII5BA  | 02       | TDI5A0 | 01     | 4                | TS8  | D1                  | 26B                |                    |        |
| 04625   |        | XA424     | 50  |     |       |       |             |      |       |       |        | RDI5AA  | 02       | TDI5A0 | 01     | 5                | TS8  | D1                  | 23A                |                    |        |
| CONNECTOR XA424 CONTINUED ON THE NEXT PAGE **** |        |           |     |     |       |       |             |      |       |       |        |         |          |        |        |                  |      |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA424  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 304

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE  |             |      | SFC INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|---------------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH FT | MULTI GROUP | CODE |               |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 01454   |        | XA424     | 51  |        |           |     |       |             |      |               | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 05697   |        | XA424     | 52  |        | XA424     | 38  |       |             | 16B  | 9             | SPI028  | 22     | TD15A0   | 01   | 6      | TS8              | D1    |                     | 24A                |                    |        |
| 01455   |        | XA424     | 53  |        |           |     |       |             |      |               | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 05912   |        | XA424     | 54  |        | XA426     | 51  |       |             | 16B  | 9             | SPI034  | 29     | TD15A0   | 01   | 7      | TS8              | D1    |                     | 25A                |                    |        |
| 11711   |        | XA424     | 55  |        |           |     |       |             |      |               | TJ111A  | 02     | TD1100   | 01   | 1      | TS8              | E1    |                     | 29B                |                    |        |
| 05875   |        | XA424     | 56  |        | XA424     | 42  |       |             | 16B  | 9             | SPI033  | 24     | TD15A0   | 01   | 8      | TS8              | D1    |                     | 26A                |                    |        |
| 01456   |        | XA424     | 57  |        |           |     |       |             |      |               | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 02774   |        | XA424     | 58  |        |           |     |       |             |      |               | GND     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11709   |        | XA424     | 59  |        |           |     |       |             |      |               | TD1100  | 02     | TD1100   | 00   | 1      | TS8              | E1    |                     | 31B                | TD REG BIT 11 OR   |        |
| 11713   |        | XA424     | 60  |        |           |     |       |             |      |               | TD113A  | 02     | TD1100   | 01   | 2      | TS8              | E1    |                     | 28A                |                    |        |
| 11716   |        | XA424     | 61  |        | XA235     | 14  |       |             | 16B  | 9             | TD116A  | 01     | TD1100   | 01   | 3      | TS8              | E1    |                     | 32B                |                    |        |
| 11715   |        | XA424     | 62  |        |           |     |       |             |      |               | TD114A  | 02     | TD1100   | 01   | 4      | TS8              | E1    |                     | 29A                |                    |        |
| 01457   |        | XA424     | 63  |        |           |     |       |             |      |               | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 11719   |        | XA424     | 64  |        |           |     |       |             |      |               | TD117A  | 02     | TD1100   | 01   | 5      | TS8              | E1    |                     | 30A                |                    |        |
| 01458   |        | XA424     | 65  |        |           |     |       |             |      |               | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 05871   |        | XA424     | 66  |        | XA427     | 68  |       |             | 16B  | 9             | SPI033  | 20     | TD1100   | 01   | 6      | TS8              | E1    |                     | 31A                |                    |        |
| 02775   |        | XA424     | 67  |        |           |     |       |             |      |               | GND     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 05911   |        | XA424     | 68  |        | XA424     | 54  |       |             | 16B  | 9             | SPI034  | 28     | TD1100   | 01   | 7      | TS8              | E1    |                     | 32A                |                    |        |
| 01459   |        | XA424     | 69  |        |           |     |       |             |      |               | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 05696   |        | XA424     | 70  |        | XA424     | 52  |       |             | 16B  | 9             | SPI028  | 21     | TD1100   | 01   | 8      | TS8              | E1    |                     | 33A                |                    |        |
| 11745   |        | XA424     | 71  |        | XA219     | 72  |       |             | 16B  | 9             | TD121A  | 01     | TD1200   | 01   | 1      | TS8              | F1    |                     | 36A                |                    |        |
| 11748   |        | XA424     | 72  |        |           |     |       |             |      |               | TD123A  | 02     | TD1200   | 01   | 2      | TS8              | F1    |                     | 34A                |                    |        |
| 11750   |        | XA424     | 73  |        |           |     |       |             |      |               | TD124A  | 02     | TD1200   | 01   | 3      | TS8              | F1    |                     | 36B                |                    |        |
| 11751   |        | XA424     | 74  |        | XA237     | 27  |       |             | 16B  | 9             | TD126A  | 01     | TD1200   | 01   | 4      | TS8              | F1    |                     | 35B                |                    |        |
| 11754   |        | XA424     | 75  |        |           |     |       |             |      |               | TD127A  | 02     | TD1200   | 01   | 5      | TS8              | F1    |                     | 37B                |                    |        |
| 11744   |        | XA424     | 76  |        |           |     |       |             |      |               | TD1200  | 02     | TD1200   | 00   | 1      | TS8              | F1    |                     | 37A                | TD REG BIT 12 OR   |        |
| 05910   |        | XA424     | 77  |        | XA424     | 68  |       |             | 16B  | 9             | SPI034  | 27     | TD1200   | 01   | 6      | TS8              | F1    |                     | 38B                |                    |        |
| 05694   |        | XA424     | 78  |        | XA425     | 73  |       |             | 16B  | 9             | SPI028  | 19     | TD1200   | 01   | 7      | TS8              | F1    |                     | 38A                |                    |        |
| 05867   |        | XA424     | 79  |        | XA423     | 78  |       |             | 16B  | 9             | SPI033  | 16     | TD1200   | 01   | 8      | TS8              | F1    |                     | 39B                |                    |        |
| 01460   |        | XA424     | 80  |        |           |     |       |             |      |               | DNW     | 01     |          |      |        | TS8              |       |                     |                    |                    |        |
| 10801   |        | XA425     | 01  |        | XA426     | 03  |       |             | 16B  | 9             | TD11XA  | 01     | TD11A0   | 01   | 1      | TD4              | A2    |                     | 02B                |                    |        |
| 02776   |        | XA425     | 02  |        |           |     |       |             |      |               | GND     | 01     |          |      |        | TD4              |       |                     | 01A                |                    |        |
| 01461   |        | XA425     | 03  |        |           |     |       |             |      |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 10799   |        | XA425     | 04  |        | XA430     | 05  |       |             | 16B  | 9             | TD11BB4 | 11     | TD11A0   | 01   | 2      | TD4              | A2    |                     | 04A                | BIT 1 INPUT BUS    |        |
| 19617   |        | XA425     | 05  |        | XA515     | 01  |       |             | 16B  | 9             | XI11AA  | 01     | TD11A0   | 01   | 3      | TD4              | A2    |                     | 03B                |                    |        |
| 10774   |        | XA425     | 06  |        | XA426     | 08  |       |             | 16B  | 9             | TD10XA  | 01     | TD10A0   | 01   | 1      | TD4              | A1    |                     | 05A                | BIT 0 INPUT BUS    |        |
| 19620   |        | XA425     | 07  |        |           |     |       |             |      |               | XI11BA  | 02     | TD11A0   | 01   | 4      | TD4              | A2    |                     | 03A                |                    |        |
| 10763   |        | XA425     | 08  |        | XA521     | 07  |       |             | 16B  | 9             | TD10BB4 | 02     | TD10A0   | 01   | 2      | TD4              | A1    |                     | 06A                |                    |        |
| 10785   |        | XA425     | 09  |        | XA406     | 45  |       |             | 16B  | 9             | TD11A0  | 03     | TD11A0   | 00   | 1      | TD4              | A2    |                     | 04B                | INF LINE 1         |        |
| 19613   |        | XA425     | 10  |        | XA515     | 06  |       |             | 16B  | 9             | XI10AA  | 01     | TD10A0   | 01   | 3      | TD4              | A1    |                     | 07A                | C10                |        |
| 10758   |        | XA425     | 11  |        | XA109     | 23  |       |             | 16B  | 9             | TD10A0  | 03     | TD10A0   | 00   | 1      | TD4              | A1    |                     | 05B                | INF LINE 0         |        |
| 00604   |        | XA425     | 12  |        |           |     |       |             |      |               | +5V     | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 19616   |        | XA425     | 13  |        |           |     |       |             |      |               | XI10BA  | 02     | TD10A0   | 01   | 4      | TD4              | A1    |                     | 06B                | DEV REQ 0 TO IOC   |        |
| 10964   |        | XA425     | 14  |        |           |     |       |             |      |               | TD17XA  | 02     | TD17A0   | 01   | 1      | TD4              | B2    |                     | 09A                | BIT 7 INPUT BUS    |        |
| 01462   |        | XA425     | 15  |        |           |     |       |             |      |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 02777   |        | XA425     | 16  |        |           |     |       |             |      |               | GND     | 01     |          |      |        | TD4              |       |                     | 20B                |                    |        |
| 01463   |        | XA425     | 17  |        |           |     |       |             |      |               | DNW     | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 10961   |        | XA425     | 18  |        | XA430     | 17  |       |             | 16B  | 9             | TD17BB4 | 11     | TD17A0   | 01   | 2      | TD4              | B2    |                     | 10A                |                    |        |
| CONNECTOR (XA425) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |               |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA425  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 305

| RECORD NUMBER | FROM   |           |                                 |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTS | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|----------|------|-------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | OR IN | PREFIX | CONNECTOR | PIN | OR IN | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |       |                  |       |                     |                    |                    |        |
| 19641         |        | XA425     | 19                              |       | XA515  | 27        |     |       |             | 16B  | 9     |       | XII7AA  | 01     | TDI7A0   | 01   | 3     | TD4              | B2    |                     | 09B                |                    |        |
| 19644         |        | XA425     | 20                              |       |        |           |     |       |             |      |       |       | XII7BA  | 02     | TDI7A0   | 01   | 4     | TD4              | B2    |                     | 11A                |                    |        |
| 10946         |        | XA425     | 21                              |       | XA406  | 75        |     |       |             | 16B  | 9     |       | TDI7A0  | 02     | TDI7A0   | 00   | 1     | TD4              | B2    |                     | 10B                | INF LINE 7         |        |
| 10936         |        | XA425     | 22                              |       | XA426  | 25        |     |       |             |      |       |       | TDI6XA  | 01     | TDI6A0   | 01   | 1     | TD4              | B1    |                     | 12A                | BIT 6 INPUT BUS    |        |
| 10918         |        | XA425     | 23                              |       | XA431  | 78        |     |       |             | 16B  | 9     |       | TDI6A0  | 01     | TDI6A0   | 00   | 1     | TD4              | B1    |                     | 11B                | INF LINE 6         |        |
| 10925         |        | XA425     | 24                              |       | XA521  | 41        |     |       |             | 16B  | 9     |       | TDI6BB4 | 02     | TDI6A0   | 01   | 2     | TD4              | B1    |                     | 13A                |                    |        |
| 19637         |        | XA425     | 25                              |       | XA515  | 21        |     |       |             | 16B  | 9     |       | XII6AA  | 01     | TDI6A0   | 01   | 3     | TD4              | B1    |                     | 12B                |                    |        |
| 19640         |        | XA425     | 26                              |       |        |           |     |       |             |      |       |       | XII6BA  | 02     | TDI6A0   | 01   | 4     | TD4              | B1    |                     | 14A                |                    |        |
| 01464         |        | XA425     | 27                              |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 00605         |        | XA425     | 28                              |       |        |           |     |       |             |      |       |       | +5V     | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 01465         |        | XA425     | 29                              |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 17361         |        | XA425     | 30                              |       |        |           |     |       |             |      |       |       | WKB12A  | 03     | TBSX20   | 01   | 1     | TD4              | C2    |                     | 15A                |                    |        |
| 17362         |        | XA425     | 31                              |       | XA425  | 38        |     |       |             | 16B  | 9     |       | WKB13A  | 01     | TBSX20   | 01   | 2     | TD4              | C2    |                     | 19B                |                    |        |
| 02778         |        | XA425     | 32                              |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |       | TD4              |       |                     | 21B                |                    |        |
| 09224         |        | XA425     | 33                              |       | XA232  | 73        |     |       |             | 16B  | 9     |       | TBSX20  | 02     | TBSX20   | 00   | 1     | TD4              | C2    |                     | 16B                | BOOTSTRAP CH 12/1  |        |
| 17376         |        | XA425     | 34                              |       |        |           |     |       |             |      |       |       | WKB16A  | 04     | TBSX20   | 01   | 3     | TD4              | C2    |                     | 16A                |                    |        |
| 09221         |        | XA425     | 35                              |       | XA232  | 76        |     |       |             | 16B  | 9     |       | TBSX10  | 02     | TBSX10   | 00   | 1     | TD4              | C1    |                     | 17B                | BOOTSTRAP CH 11/1  |        |
| 17377         |        | XA425     | 36                              |       | XA425  | 42        |     |       |             | 16B  | 9     |       | WKB17A  | 01     | TBSX20   | 01   | 4     | TD4              | C2    |                     | 17A                |                    |        |
| 17356         |        | XA425     | 37                              |       | XA415  | 64        |     |       |             | 16B  | 9     |       | WKB11A  | 01     | TBSX10   | 01   | 1     | TD4              | C1    |                     | 18B                |                    |        |
| 17363         |        | XA425     | 38                              |       | XA415  | 61        |     |       |             | 16B  | 9     |       | WKB13A  | 02     | TBSX10   | 01   | 2     | TD4              | C1    |                     | 18A                |                    |        |
| 01466         |        | XA425     | 39                              |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 17369         |        | XA425     | 40                              |       | XA425  | 52        |     |       |             | 16B  | 9     |       | WKB15A  | 01     | TBSX10   | 01   | 3     | TD4              | C1    |                     | 19A                |                    |        |
| 01467         |        | XA425     | 41                              |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 17378         |        | XA425     | 42                              |       | XA425  | 56        |     |       |             | 16B  | 9     |       | WKB17A  | 02     | TBSX10   | 01   | 4     | TD4              | C1    |                     | 20A                |                    |        |
| 10688         |        | XA425     | 43                              |       | XA415  | 01        |     |       |             | 16B  | 9     |       | TDDISA  | 01     | TFI050   | 01   | 1     | TD4              | D2    |                     | 23B                |                    |        |
| 02779         |        | XA425     | 44                              |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |       | TD4              |       |                     | 27A                |                    |        |
| 12942         |        | XA425     | 45                              |       |        |           |     |       |             |      |       |       | TFI050  | 04     | TFI050   | 00   | 1     | TD4              | D2    |                     | 24B                | RESET COND PRESENT |        |
| 03775         |        | XA425     | 46                              |       |        |           |     |       |             |      |       |       | JMRSAB4 | 02     | TFI050   | 01   | 2     | TD4              | D2    |                     | 21A                |                    |        |
| 09227         |        | XA425     | 47                              |       | XA232  | 61        |     |       |             | 16B  | 9     |       | TBSX40  | 02     | TBSX40   | 00   | 1     | TD4              | D1    |                     | 25B                | BOOTSTRAP CH 14/1  |        |
| 20201         |        | XA425     | 48                              |       |        |           |     |       |             |      |       |       | YPRFCB4 | 03     | TFI050   | 01   | 3     | TD4              | D2    |                     | 22A                |                    |        |
| 17366         |        | XA425     | 49                              |       | XA415  | 79        |     |       |             | 16B  | 9     |       | WKB14A  | 01     | TBSX40   | 01   | 1     | TD4              | D1    |                     | 26B                |                    |        |
| 04345         |        | XA425     | 50                              |       |        |           |     |       |             |      |       |       | KSWRSR  | 03     | TFI050   | 01   | 4     | TD4              | D2    |                     | 23A                |                    |        |
| 01468         |        | XA425     | 51                              |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 17370         |        | XA425     | 52                              |       | XA415  | 73        |     |       |             | 16B  | 9     |       | WKB15A  | 02     | TBSX40   | 01   | 2     | TD4              | D1    |                     | 24A                |                    |        |
| 01469         |        | XA425     | 53                              |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 17375         |        | XA425     | 54                              |       | XA425  | 34        |     |       |             | 16B  | 9     |       | WKB16A  | 03     | TBSX40   | 01   | 3     | TD4              | D1    |                     | 25A                |                    |        |
| 04226         |        | XA425     | 55                              |       | XA210  | 77        |     |       |             | 16B  | 9     |       | KMR17R  | 01     | TD0280   | 01   | 1     | TD4              | E2    |                     | 29B                |                    |        |
| 17379         |        | XA425     | 56                              |       | XA415  | 78        |     |       |             | 16B  | 9     |       | WKB17A  | 03     | TBSX40   | 01   | 4     | TD4              | D1    |                     | 26A                |                    |        |
| 11412         |        | XA425     | 57                              |       | XA426  | 50        |     |       |             | 16B  | 9     |       | TD0280  | 01     | TD0280   | 00   | 1     | TD4              | E2    |                     | 30B                | MCMU BKO*-0        |        |
| 02780         |        | XA425     | 58                              |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |       | TD4              |       |                     | 40A                |                    |        |
| 13316         |        | XA425     | 59                              |       |        |           |     |       |             |      |       |       | TINDA0  | 04     | TINDA0   | 00   | 1     | TD4              | E1    |                     | 31B                | INDICATOR LINE     |        |
| 04234         |        | XA425     | 60                              |       | XA210  | 71        |     |       |             | 16B  | 9     |       | KMR18R  | 01     | TD0280   | 01   | 2     | TD4              | E2    |                     | 28A                |                    |        |
| 13364         |        | XA425     | 61                              |       |        |           |     |       |             |      |       |       | TINDXA  | 02     | TINDA0   | 01   | 1     | TD4              | E1    |                     | 32B                | *                  |        |
| 04242         |        | XA425     | 62                              |       | XA210  | 74        |     |       |             | 16B  | 9     |       | KMR19R  | 01     | TD0280   | 01   | 3     | TD4              | E2    |                     | 29A                |                    |        |
| 01470         |        | XA425     | 63                              |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 04250         |        | XA425     | 64                              |       | XA210  | 78        |     |       |             | 16B  | 9     |       | KMR20R  | 01     | TD0280   | 01   | 4     | TD4              | E2    |                     | 30A                |                    |        |
| 01471         |        | XA425     | 65                              |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |       | TD4              |       |                     |                    |                    |        |
| 04670         |        | XA425     | 66                              |       | XA436  | 80        |     |       |             | 16B  | 9     |       | RINDAA  | 01     | TINDA0   | 01   | 2     | TD4              | E1    |                     | 31A                |                    |        |
| 02781         |        | XA425     | 67                              |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |       | TD4              |       |                     | 40B                |                    |        |
| 13322         |        | XA425     | 68                              |       | XA521  | 55        |     |       |             | 16B  | 9     |       | TINDBB4 | 02     | TINDA0   | 01   | 3     | TD4              | E1    |                     | 32A                |                    |        |
| CONNECTOR     |        | XA425     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |       |       |         |        |          |      |       |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA425  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 306

| RECORD NUMBER                                     | FROM   |           |     | CIRCUIT | TO     |           |     | WIRE |             |      |       | SPEC. INST. MISC. | SIGNAL | SEQ NO. | EQUATION | TERM. | FACTS | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PL. VOLTAGE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|---------|--------|-----------|-----|------|-------------|------|-------|-------------------|--------|---------|----------|-------|-------|------------------|-------|---------------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN |         | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |                   |        |         |          |       |       |                  |       |                           |                    |                    |         |
| 07954   |        | XA425     | 69  |         |        |           |     |      |             |      |       | SPO               | 01     |         | 00       | 1     | TD4   | F2               |       | 35A                       |                    |                    |         |
| 19597   |        | XA425     | 70  |         | XA515  | 30        |     |      | 16B         | 9    |       | XIINAA            | 01     | TINDA0  | 01       | 4     | TD4   | E1               |       | 33A                       |                    |                    |         |
| 05870   |        | XA425     | 71  |         | XA424  | 66        |     |      | 16B         | 9    |       | SPI033            | 19     |         | 01       | 1     | TD4   | F2               |       | 36A                       |                    |                    |         |
| 05625   |        | XA425     | 72  |         | XA433  | 63        |     |      | 16B         | 9    |       | SPI026            | 17     |         | 01       | 2     | TD4   | F2               |       | 34A                       |                    |                    |         |
| 05695   |        | XA425     | 73  |         | XA424  | 70        |     |      | 16B         | 9    |       | SPI028            | 20     |         | 01       | 3     | TD4   | F2               |       | 36B                       |                    |                    |         |
| 05908   |        | XA425     | 74  |         | XA425  | 75        |     |      | 16B         | 9    |       | SPI034            | 25     |         | 01       | 4     | TD4   | F2               |       | 35B                       |                    |                    |         |
| 05909   |        | XA425     | 75  |         | XA424  | 77        |     |      | 16B         | 9    |       | SPI034            | 26     |         | 01       | 1     | TD4   | F1               |       | 37B                       |                    |                    |         |
| 07955   |        | XA425     | 76  |         |        |           |     |      |             |      |       | SPO               | 01     |         | 00       | 1     | TD4   | F1               |       | 37A                       |                    |                    |         |
| 05869   |        | XA425     | 77  |         | XA425  | 71        |     |      | 16B         | 9    |       | SPI033            | 18     |         | 01       | 2     | TD4   | F1               |       | 38B                       |                    |                    |         |
| 05693   |        | XA425     | 78  |         | XA424  | 78        |     |      | 16B         | 9    |       | SPI028            | 18     |         | 01       | 3     | TD4   | F1               |       | 38A                       |                    |                    |         |
| 05624   |        | XA425     | 79  |         | XA425  | 72        |     |      | 16B         | 9    |       | SPI026            | 16     |         | 01       | 4     | TD4   | F1               |       | 39B                       |                    |                    |         |
| 01472   |        | XA425     | 80  |         |        |           |     |      |             |      |       | DNW               | 01     |         |          |       | TD4   |                  |       |                           |                    |                    |         |
| 10828   |        | XA426     | 01  |         | XA424  | 01        |     |      | 16B         | 9    |       | TDI2XA            | 01     | TDI2XA  | 00       | 1     | THI   | A4               |       | 02B                       |                    |                    |         |
| 02782   |        | XA426     | 02  |         |        |           |     |      |             |      |       | GND               | 01     |         |          |       | THI   |                  |       | 01A                       |                    |                    |         |
| 10802   |        | XA426     | 03  |         |        |           |     |      |             |      |       | TDI1XA            | 02     | TDI1XA  | 00       | 1     | THI   | A3               |       | 03A                       |                    |                    |         |
| 10788   |        | XA426     | 04  |         |        |           |     |      |             |      |       | TDI1A0X           | 02     | TDI1XA  | 01       | 1     | THI   | A3               |       | 02A                       |                    |                    |         |
| 10815   |        | XA426     | 05  |         |        |           |     |      |             |      |       | TDI2A0X           | 02     | TDI2XA  | 01       | 1     | THI   | A4               |       | 03B                       |                    |                    |         |
| 10761   |        | XA426     | 06  |         |        |           |     |      |             |      |       | TDI0A0X           | 02     | TDI0XA  | 01       | 1     | THI   | A2               |       | 05A                       |                    |                    |         |
| 10855   |        | XA426     | 07  |         | XA424  | 14        |     |      | 16B         | 9    |       | TDI3XA            | 01     | TDI3XA  | 00       | 1     | THI   | A5               |       | 04B                       |                    |                    |         |
| 10775   |        | XA426     | 08  |         |        |           |     |      |             |      |       | TDI0XA            | 02     | TDI0XA  | 00       | 1     | THI   | A2               |       | 04A                       |                    |                    |         |
| 10841   |        | XA426     | 09  |         | XA420  | 47        |     |      | 16B         | 9    |       | TDI3A0X           | 01     | TDI3XA  | 01       | 1     | THI   | A5               |       | 05B                       |                    |                    |         |
| 10882   |        | XA426     | 10  |         | XA424  | 30        |     |      | 16B         | 9    |       | TDI4XA            | 01     | TDI4XA  | 00       | 1     | THI   | A6               |       | 06B                       |                    |                    |         |
| 10736   |        | XA426     | 11  |         | XA418  | 09        |     |      | 16B         | 9    |       | TDIPAXX           | 01     | TDIPXA  | 01       | 1     | THI   | A1               |       | 07A                       |                    |                    |         |
| 00606   |        | XA426     | 12  |         |        |           |     |      |             |      |       | +5V               | 01     |         |          |       | THI   |                  |       |                           |                    |                    |         |
| 10748   |        | XA426     | 13  |         |        |           |     |      |             |      |       | TDIPXA            | 02     | TDIPXA  | 00       | 1     | THI   | A1               |       | 06A                       |                    |                    |         |
| 13399   |        | XA426     | 14  |         |        |           |     |      |             |      |       | TINTCA            | 07     | TINTCA  | 00       | 1     | THI   | B4               |       | 08B                       |                    |                    |         |
| 10869   |        | XA426     | 15  |         |        |           |     |      |             |      |       | TDI4A0X           | 02     | TDI4XA  | 01       | 1     | THI   | A6               |       | 07B                       |                    |                    |         |
| 02783   |        | XA426     | 16  |         |        |           |     |      |             |      |       | GND               | 01     |         |          |       | THI   |                  |       | 20B                       |                    |                    |         |
| 13402   |        | XA426     | 17  |         | XA416  | 13        |     |      | 16B         | 9    |       | TINTRO            | 01     | TINTCA  | 01       | 1     | THI   | B4               |       | 09B                       |                    |                    |         |
| 10963   |        | XA426     | 18  |         | XA425  | 14        |     |      | 16B         | 9    |       | TDI7XA            | 01     | TDI7XA  | 00       | 1     | THI   | B3               |       | 09A                       |                    |                    |         |
| 15675   |        | XA426     | 19  |         |        |           |     |      |             |      |       | TSTBCA            | 07     | TSTBCA  | 00       | 1     | THI   | B5               |       | 10B                       |                    |                    |         |
| 10950   |        | XA426     | 20  |         |        |           |     |      |             |      |       | TDI7A0X           | 02     | TDI7XA  | 01       | 1     | THI   | B3               |       | 10A                       |                    |                    |         |
| 15691   |        | XA426     | 21  |         | XA417  | 51        |     |      | 16B         | 9    |       | TSTRBQ            | 01     | TSTBCA  | 01       | 1     | THI   | B5               |       | 11B                       |                    |                    |         |
| 10896   |        | XA426     | 22  |         |        |           |     |      |             |      |       | TDI5A0X           | 02     | TDI5XA  | 01       | 1     | THI   | B1               |       | 14A                       |                    |                    |         |
| 10923   |        | XA426     | 23  |         |        |           |     |      |             |      |       | TDI6A0X           | 02     | TDI6XA  | 01       | 1     | THI   | B2               |       | 12A                       |                    |                    |         |
| 10909   |        | XA426     | 24  |         | XA424  | 43        |     |      | 16B         | 9    |       | TDI5XA            | 01     | TDI5XA  | 00       | 1     | THI   | B1               |       | 13A                       |                    |                    |         |
| 10937   |        | XA426     | 25  |         |        |           |     |      |             |      |       | TDI6XA            | 02     | TDI6XA  | 00       | 1     | THI   | B2               |       | 11A                       |                    |                    |         |
| 07956   |        | XA426     | 26  |         |        |           |     |      |             |      |       | SPO               | 01     |         | 00       | 1     | THI   | B6               |       | 12B                       |                    |                    |         |
| 05916   |        | XA426     | 27  |         | XA428  | 35        |     |      | 16B         | 9    |       | SPI034            | 33     |         | 01       | 1     | THI   | B6               |       | 13B                       |                    |                    |         |
| 00607   |        | XA426     | 28  |         |        |           |     |      |             |      |       | +5V               | 01     |         |          |       | THI   |                  |       |                           |                    |                    |         |
| 15377   |        | XA426     | 29  |         | XA420  | 57        |     |      | 16B         | 9    |       | TRQ4A0X           | 01     | TRQ4XA  | 01       | 1     | THI   | C4               |       | 15B                       |                    |                    |         |
| 15382   |        | XA426     | 30  |         | XA415  | 35        |     |      | 16B         | 9    |       | TRQ4XA            | 01     | TRQ4XA  | 00       | 1     | THI   | C4               |       | 14B                       |                    |                    |         |
| 15398   |        | XA426     | 31  |         | XA415  | 54        |     |      | 16B         | 9    |       | TRQ5XA            | 01     | TRQ5XA  | 00       | 1     | THI   | C5               |       | 16B                       |                    |                    |         |
| 02784   |        | XA426     | 32  |         |        |           |     |      |             |      |       | GND               | 01     |         |          |       | THI   |                  |       | 21B                       |                    |                    |         |
| 15393   |        | XA426     | 33  |         | XA418  | 75        |     |      | 16B         | 9    |       | TRQ5A0X           | 01     | TRQ5XA  | 01       | 1     | THI   | C5               |       | 17B                       |                    |                    |         |
| 15367   |        | XA426     | 34  |         |        |           |     |      |             |      |       | TRQ3XA            | 02     | TRQ3XA  | 00       | 1     | THI   | C3               |       | 15A                       |                    |                    |         |
| 15348   |        | XA426     | 35  |         | XA418  | 57        |     |      | 16B         | 9    |       | TRQ2A0X           | 01     | TRQ2XA  | 01       | 1     | THI   | C2               |       | 18A                       |                    |                    |         |
| 15364   |        | XA426     | 36  |         | XA418  | 48        |     |      | 16B         | 9    |       | TRQ3A0X           | 01     | TRQ3XA  | 01       | 1     | THI   | C3               |       | 16A                       |                    |                    |         |
| CONNECTOR (XA426) CONTINUED ON THE NEXT PAGE **** |        |           |     |         |        |           |     |      |             |      |       |                   |        |         |          |       |       |                  |       |                           |                    |                    |         |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA426  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 307

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TURN | FACTOR | CKT OR CHIP TYPE | GND# | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION  | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|------|---------------------|--------------------|---------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |      |                     |                    |                     |        |
| 15353         |        | XA426     | 37                              |      | XA415  | 34        |     |      |             | 16B  | 9     |       | TRQ2XA  | 01     | TRQ2XA   | 00   | 1      | THI              | C2   |                     | 17A                |                     |        |
| 15332         |        | XA426     | 38                              |      | XA418  | 56        |     |      |             | 16B  | 9     |       | TRQ1A0X | 01     | TRQ1XA   | 01   | 1      | THI              | C1   |                     | 20A                |                     |        |
| 15409         |        | XA426     | 39                              |      | XA418  | 76        |     |      |             | 16B  | 9     |       | TRQ6A0X | 01     | TRQ6XA   | 01   | 1      | THI              | C6   |                     | 19B                |                     |        |
| 15337         |        | XA426     | 40                              |      | XA415  | 40        |     |      |             | 16B  | 9     |       | TRQ1XA  | 01     | TRQ1XA   | 00   | 1      | THI              | C1   |                     | 19A                |                     |        |
| 13654         |        | XA426     | 41                              |      |        |           |     |      |             |      |       |       | TI311A  | 10     | TI3110   | 01   | 1      | THI              | D4   |                     | 23B                |                     |        |
| 15414         |        | XA426     | 42                              |      | XA415  | 48        |     |      |             | 16B  | 9     |       | TRQ6XA  | 01     | TRQ6XA   | 00   | 1      | THI              | C6   |                     | 18B                |                     |        |
| 10632         |        | XA426     | 43                              |      |        |           |     |      |             |      |       |       | TDCBAA  | 09     | TDCBAA   | 00   | 1      | THI              | D5   |                     | 24B                | TD TO MEM BUS ENA   |        |
| 02785         |        | XA426     | 44                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | THI              |      |                     | 27A                |                     |        |
| 10634         |        | XA426     | 45                              |      |        |           |     |      |             |      |       |       | TDCBAA  | 02     | TDCBAA   | 01   | 1      | THI              | D5   |                     | 25B                |                     |        |
| 13658         |        | XA426     | 46                              |      |        |           |     |      |             |      |       |       | TI3110  | 04     | TI3110   | 00   | 1      | THI              | D4   |                     | 22B                | BSTP CHNL BIT 2 T   |        |
| 09941         |        | XA426     | 47                              |      |        |           |     |      |             |      |       |       | TCSXMO  | 03     | TCSXMA   | 01   | 1      | THI              | D2   |                     | 24A                |                     |        |
| 11410         |        | XA426     | 48                              |      | XA423  | 36        |     |      |             | 16B  | 9     |       | TD028A  | 01     | TD028A   | 00   | 1      | THI              | D3   |                     | 21A                | MCMU BKO*-A         |        |
| 09934         |        | XA426     | 49                              |      | XA416  | 08        |     |      |             | 16B  | 9     |       | TCSXMA  | 07     | TCSXMA   | 00   | 1      | THI              | D2   |                     | 23A                |                     |        |
| 11413         |        | XA426     | 50                              |      |        |           |     |      |             |      |       |       | TD0280  | 02     | TD028A   | 01   | 1      | THI              | D3   |                     | 22A                |                     |        |
| 05913         |        | XA426     | 51                              |      | XA424  | 40        |     |      |             | 16B  | 9     |       | SPI034  | 30     |          | 01   | 1      | THI              | D6   |                     | 27B                |                     |        |
| 15425         |        | XA426     | 52                              |      | XA418  | 68        |     |      |             | 16B  | 9     |       | TRQ7A0X | 01     | TRQ7XA   | 01   | 1      | THI              | D1   |                     | 26A                |                     |        |
| 07957         |        | XA426     | 53                              |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | D6   |                     | 26B                |                     |        |
| 15428         |        | XA426     | 54                              |      |        |           |     |      |             |      |       |       | TRQ7XA  | 02     | TRQ7XA   | 00   | 1      | THI              | D1   |                     | 25A                |                     |        |
| 09229         |        | XA426     | 55                              |      | XA423  | 60        |     |      |             | 16B  | 9     |       | TBS02A  | 01     | TBS020   | 01   | 1      | THI              | E4   |                     | 29B                |                     |        |
| 09231         |        | XA426     | 56                              |      | XA415  | 53        |     |      |             | 16B  | 9     |       | TBS020  | 01     | TBS020   | 00   | 1      | THI              | E4   |                     | 28B                | INHIBIT NON-SLCTD   |        |
| 03808         |        | XA426     | 57                              |      |        |           |     |      |             |      |       |       | JS77AD4 | 03     | JS77AD4  | 00   | 1      | THI              | E5   |                     | 30B                | STIMULATE 77 TO CPU |        |
| 02786         |        | XA426     | 58                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | THI              |      |                     | 40A                |                     |        |
| 16530         |        | XA426     | 59                              |      | XA428  | 25        |     |      |             | 16B  | 9     |       | TS77A0  | 01     | JS77AD4  | 01   | 1      | THI              | E5   |                     | 31B                |                     |        |
| 13363         |        | XA426     | 60                              |      | XA425  | 61        |     |      |             | 16B  | 9     |       | TINDXA  | 01     | TINDXA   | 00   | 1      | THI              | E3   |                     | 28A                |                     |        |
| 09742         |        | XA426     | 61                              |      | XA420  | 70        |     |      |             | 16B  | 9     |       | TCM0BQ  | 01     | TCM0CA   | 01   | 1      | THI              | E2   |                     | 31A                |                     |        |
| 13320         |        | XA426     | 62                              |      |        |           |     |      |             |      |       |       | TINDA0X | 02     | TINDXA   | 01   | 1      | THI              | E3   |                     | 29A                |                     |        |
| 09747         |        | XA426     | 63                              |      | XA518  | 65        |     |      |             | 16B  | 9     |       | TCM0CA  | 01     | TCM0CA   | 00   | 1      | THI              | E2   |                     | 30A                |                     |        |
| 12521         |        | XA426     | 64                              |      | XA415  | 06        |     |      |             | 16B  | 9     |       | TENACA  | 07     | TENACO   | 01   | 1      | THI              | E1   |                     | 33A                |                     |        |
| 12922         |        | XA426     | 65                              |      |        |           |     |      |             |      |       |       | TFI0CA  | 02     | TFI0CO   | 01   | 1      | THI              | E6   |                     | 33B                |                     |        |
| 12524         |        | XA426     | 66                              |      |        |           |     |      |             |      |       |       | TENACO  | 02     | TENACO   | 00   | 1      | THI              | E1   |                     | 32A                |                     |        |
| 02787         |        | XA426     | 67                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | THI              |      |                     |                    |                     |        |
| 12928         |        | XA426     | 68                              |      | XA437  | 78        |     |      |             | 16B  | 9     |       | TFI0CO  | 01     | TFI0CO   | 00   | 1      | THI              | E6   |                     | 32B                | E03                 |        |
| 14915         |        | XA426     | 69                              |      |        |           |     |      |             |      |       |       | TP0070  | 03     | TP007A   | 01   | 1      | THI              | F3   |                     | 35B                |                     |        |
| 14911         |        | XA426     | 70                              |      | XA208  | 04        |     |      |             | 16B  | 9     |       | TP007A  | 01     | TP007A   | 00   | 1      | THI              | F3   |                     | 34B                |                     |        |
| 13286         |        | XA426     | 71                              |      |        |           |     |      |             |      |       |       | TICSCA  | 05     | TICSCA   | 00   | 1      | THI              | F2   |                     | 36B                | CTS RD IOU STAT RE  |        |
| 07958         |        | XA426     | 72                              |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | F4   |                     | 34A                |                     |        |
| 17326         |        | XA426     | 73                              |      | XA428  | 31        |     |      |             | 16B  | 9     |       | UICSCO  | 01     | TICSCA   | 01   | 1      | THI              | F2   |                     | 37B                |                     |        |
| 05905         |        | XA426     | 74                              |      | XA427  | 71        |     |      |             | 16B  | 9     |       | SPI034  | 22     |          | 01   | 1      | THI              | F4   |                     | 35A                |                     |        |
| 05907         |        | XA426     | 75                              |      | XA425  | 74        |     |      |             | 16B  | 9     |       | SPI034  | 24     |          | 01   | 1      | THI              | F6   |                     | 39A                |                     |        |
| 05904         |        | XA426     | 76                              |      | XA426  | 74        |     |      |             | 16B  | 9     |       | SPI034  | 21     |          | 01   | 1      | THI              | F5   |                     | 37A                |                     |        |
| 07959         |        | XA426     | 77                              |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | F6   |                     | 38A                |                     |        |
| 07960         |        | XA426     | 78                              |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | F5   |                     | 36A                |                     |        |
| 17318         |        | XA426     | 79                              |      | XA428  | 18        |     |      |             | 16B  | 9     |       | UICPE0  | 01     | TICPEA   | 01   | 1      | THI              | F1   |                     | 39B                |                     |        |
| 13279         |        | XA426     | 80                              |      |        |           |     |      |             |      |       |       | TICPEA  | 02     | TICPEA   | 00   | 1      | THI              | F1   |                     | 38B                | CTS INH PARITY ERR  |        |
| 03769         |        | XA427     | 01                              |      | XA203  | 51        |     |      |             | 16B  | 9     |       | JLITAD4 | 01     | JLITAD4  | 00   | 1      | TLD              | A2   |                     | 02B                | LVL INTRPT TO CPU   |        |
| 02788         |        | XA427     | 02                              |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TLD              |      |                     | 01A                |                     |        |
| 09154         |        | XA427     | 03                              |      |        |           |     |      |             |      |       |       | TBSTSQ  | 02     | JBSTAD4  | 01   | 1      | TLD              | A3   |                     | 02A                |                     |        |
| 16074         |        | XA427     | 04                              |      | XA341  | 73        |     |      |             | 16B  | 9     |       | TS12BQ  | 02     | JLITAD4  | 01   | 1      | TLD              | A2   |                     | 04A                |                     |        |
| CONNECTOR     |        | XA427     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |         |        |          |      |        |                  |      |                     |                    |                     |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA427  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 308

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE    |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTORY | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO              |
|---|--------|-----------|-----|--------|-----------|-----|---------|-------------|------|-------|--------|--------|----------|------|---------|------------------|-------|---------------------|--------------------|--------------------|---------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR |        |        |          |      |         |                  |       |                     |                    |                    |                     |
| 14683   |        | XA427     | 05  | XA340  | 78        |     |         | 16B         | 9    |       |        | P      | TPEM3A   | 01   | JLITAD4 | 01               | 2     | TLD                 | A2                 | 03B                |                     |
| 03750   |        | XA427     | 06  | XA127  | 01        |     |         | 16B         | 9    |       |        | J      | JEIG8D   | 01   | JDIG8B4 | 01               | 1     | TLD                 | A1                 | 05A                |                     |
| 03754   |        | XA427     | 06  |        |           |     |         |             |      |       |        | J      | JEIG8D   | 01   | JEIG8D  | 00               | 1     | TLD                 | A1                 | 05A                |                     |
| 14222   |        | XA427     | 07  | XA138  | 70        |     |         | 16B         | 9    |       |        |        | TMRUCA4  | 09   | JBSTAD4 | 01               | 2     | TLD                 | A3                 | 03A                | JDIG8B4 BUSS        |
| 09268   |        | XA427     | 08  | XA420  | 71        |     |         | 16B         | 9    |       |        |        | TBT120   | 03   | JEIG8D  | 01               | 1     | TLD                 | A1                 | 06A                |                     |
| 03528   |        | XA427     | 09  |        |           |     |         |             |      |       |        |        | JBSTAD4  | 04   | JBSTAD4 | 00               | 1     | TLD                 | A3                 | 04B                | BOOTSTRAP 2 TO CPU  |
| 05886   |        | XA427     | 10  | XA427  | 11        |     |         | 16B         | 9    |       |        |        | SPI034   | 03   | JEIG8D  | 01               | 2     | TLD                 | A1                 | 07A                |                     |
| 03786   |        | XA427     | 11  | XA428  | 11        |     |         | 16B         | 9    |       |        |        | SPI034   | 035  |         | 01               | 1     | TLD                 | A4                 | 05B                |                     |
| 00608   |        | XA427     | 12  |        |           |     |         |             |      |       |        |        | +5V      | 01   |         |                  |       | TLD                 |                    |                    |                     |
| 06279   |        | XA427     | 13  |        |           |     |         |             |      |       |        |        | SPI300   | 07   |         | 01               | 2     | TLD                 | A4                 | 06B                |                     |
| 20387   |        | XA427     | 14  |        |           |     |         |             |      |       |        | M      | SPO025   | 01   |         | 00               | 1     | TLD                 | B2                 | 09A                |                     |
| 03782   |        | XA427     | 15  |        |           |     |         |             |      |       |        |        | SPO      | 01   |         | 00               | 1     | TLD                 | A4                 | 07B                |                     |
| 02789   |        | XA427     | 16  |        |           |     |         |             |      |       |        |        | GND      | 01   |         |                  |       | TLD                 |                    | 01B                |                     |
| 05891   |        | XA427     | 17  | XA427  | 25        |     |         | 16B         | 9    |       |        |        | SPI034   | 08   |         | 01               | 1     | TLD                 | B3                 | 08B                |                     |
| 05880   |        | XA427     | 18  | XA424  | 08        |     |         | 16B         | 9    |       |        |        | SPI033   | 29   |         | 01               | 1     | TLD                 | B2                 | 10A                |                     |
| 05879   |        | XA427     | 19  | XA427  | 18        |     |         | 16B         | 9    |       |        |        | SPI033   | 28   |         | 01               | 2     | TLD                 | B3                 | 09B                |                     |
| 05890   |        | XA427     | 20  | XA427  | 17        |     |         | 16B         | 9    |       |        |        | SPI034   | 07   |         | 01               | 2     | TLD                 | B2                 | 11A                |                     |
| 20388   |        | XA427     | 21  |        |           |     |         |             |      |       |        | M      | SPO026   | 01   |         | 00               | 1     | TLD                 | B3                 | 10B                |                     |
| 03803   |        | XA427     | 22  | XA203  | 47        |     |         | 16B         | 9    |       |        |        | JS02AD4  | 01   | JS02AD4 | 00               | 1     | TLD                 | B1                 | 12A                | STIMULATE 02 TO CPU |
| 05878   |        | XA427     | 23  | XA427  | 19        |     |         | 16B         | 9    |       |        |        | SPI033   | 27   |         | 01               | 1     | TLD                 | B4                 | 11B                |                     |
| 04804   |        | XA427     | 24  | XA443  | 39        |     |         | 16B         | 9    |       |        |        | RTCT10   | 01   | JS02AD4 | 01               | 1     | TLD                 | B1                 | 13A                |                     |
| 05892   |        | XA427     | 25  | XA427  | 26        |     |         | 16B         | 9    |       |        |        | SPI034   | 09   |         | 01               | 2     | TLD                 | B4                 | 12B                |                     |
| 05893   |        | XA427     | 26  | XA428  | 29        |     |         | 16B         | 9    |       |        |        | SPI034   | 10   | JS02AD4 | 01               | 2     | TLD                 | B1                 | 14A                |                     |
| 20389   |        | XA427     | 27  |        |           |     |         |             |      |       |        | M      | SPO027   | 01   |         | 00               | 1     | TLD                 | B4                 | 13B                |                     |
| 00609   |        | XA427     | 28  |        |           |     |         |             |      |       |        |        | +5V      | 01   |         |                  |       | TLD                 |                    |                    |                     |
| 08594   |        | XA427     | 29  | XA428  | 56        |     |         | 16B         | 9    |       |        |        | TA02C0   | 01   | TA02SD  | 01               | 1     | TLD                 | C3                 | 14B                |                     |
| 03539   |        | XA427     | 30  | XA337  | 38        |     |         | 16B         | 9    |       |        | P      | TA01SD   | 03   | JDB01B4 | 03               | 1     | TLD                 | C2                 | 15A                | ADDRESS TO CPU      |
| 08571   |        | XA427     | 30  |        |           |     |         |             |      |       |        | J      | TA01SD   | 01   | TA01SD  | 00               | 1     | TLD                 | C2                 | 15A                | JDB01B4 BUSS        |
| 16627   |        | XA427     | 31  | XA427  | 37        |     |         | 16B         | 9    |       |        |        | TTSAM0   | 02   | TA02SD  | 01               | 2     | TLD                 | C3                 | 15B                |                     |
| 02790   |        | XA427     | 32  |        |           |     |         |             |      |       |        |        | GND      | 01   |         |                  |       | TLD                 |                    | 21B                |                     |
| 03545   |        | XA427     | 33  | XA348  | 30        |     |         | 16B         | 9    |       |        | P      | TA02SD   | 03   | JDB02B4 | 03               | 1     | TLD                 | C3                 | 16B                | ADDRESS TO CPU      |
| 08596   |        | XA427     | 33  |        |           |     |         |             |      |       |        | J      | TA02SD   | 01   | TA02SD  | 00               | 1     | TLD                 | C3                 | 16B                | JDB02B4 BUSS        |
| 08569   |        | XA427     | 34  | XA428  | 60        |     |         | 16B         | 9    |       |        |        | TA01C0   | 01   | TA01SD  | 01               | 1     | TLD                 | C2                 | 16A                |                     |
| 08619   |        | XA427     | 35  | XA428  | 57        |     |         | 16B         | 9    |       |        |        | TA03C0   | 01   | TA03SD  | 01               | 1     | TLD                 | C4                 | 17B                |                     |
| 16631   |        | XA427     | 36  | XA427  | 48        |     |         | 16B         | 9    |       |        |        | TTSAM0   | 06   | TA01SD  | 01               | 2     | TLD                 | C2                 | 17A                |                     |
| 16628   |        | XA427     | 37  | XA427  | 41        |     |         | 16B         | 9    |       |        |        | TTSAM0   | 03   | TA03SD  | 01               | 2     | TLD                 | C4                 | 18B                |                     |
| 03535   |        | XA427     | 38  | XA301  | 01        |     |         | 16B         | 9    |       |        | P      | TA00SD   | 05   | JDB00B4 | 03               | 1     | TLD                 | C1                 | 18A                | ADDRESS TO CPU      |
| 08548   |        | XA427     | 38  |        |           |     |         |             |      |       |        | J      | TA00SD   | 01   | TA00SD  | 00               | 1     | TLD                 | C1                 | 18A                | JDB00B4 BUSS        |
| 03550   |        | XA427     | 39  | XA348  | 52        |     |         | 16B         | 9    |       |        | P      | TA03SD   | 08   | JDB03B4 | 03               | 1     | TLD                 | C4                 | 19B                | ADDRESS TO CPU      |
| 08621   |        | XA427     | 39  |        |           |     |         |             |      |       |        | J      | TA03SD   | 01   | TA03SD  | 00               | 1     | TLD                 | C4                 | 19B                | JDB03B4 BUSS        |
| 08546   |        | XA427     | 40  | XA428  | 66        |     |         | 16B         | 9    |       |        |        | TA00C0   | 01   | TA00SD  | 01               | 1     | TLD                 | C1                 | 19A                |                     |
| 16629   |        | XA427     | 41  | XA427  | 42        |     |         | 16B         | 9    |       |        |        | TTSAM0   | 04   | TA06SD  | 01               | 1     | TLD                 | D3                 | 22B                |                     |
| 16630   |        | XA427     | 42  | XA427  | 36        |     |         | 16B         | 9    |       |        |        | TTSAM0   | 05   | TA00SD  | 01               | 2     | TLD                 | C1                 | 20A                |                     |
| 08689   |        | XA427     | 43  | XA428  | 78        |     |         | 16B         | 9    |       |        |        | TA06C0   | 01   | TA06SD  | 01               | 2     | TLD                 | D3                 | 23B                |                     |
| 02791   |        | XA427     | 44  |        |           |     |         |             |      |       |        |        | GND      | 01   |         |                  |       | TLD                 |                    | 27A                |                     |
| 03569   |        | XA427     | 45  | XA127  | 69        |     |         | 16B         | 9    |       |        | P      | TA06SD   | 03   | JDB06B4 | 03               | 1     | TLD                 | D3                 | 24B                | ADDRESS TO CPU      |
| 08691   |        | XA427     | 45  |        |           |     |         |             |      |       |        | J      | TA06SD   | 01   | TA06SD  | 00               | 1     | TLD                 | D3                 | 24B                | JDB06B4 BUSS        |
| 03564   |        | XA427     | 46  | XA337  | 65        |     |         | 16B         | 9    |       |        | P      | TA05SD   | 04   | JDB05B4 | 03               | 1     | TLD                 | D2                 | 21A                | ADDRESS TO CPU      |
| 08669   |        | XA427     | 46  |        |           |     |         |             |      |       |        | J      | TA05SD   | 01   | TA05SD  | 00               | 1     | TLD                 | D2                 | 21A                | JDB05B4 BUSS        |
| 05896   |        | XA427     | 47  | XA427  | 53        |     |         | 16B         | 9    |       |        |        | SPI034   | 13   |         | 01               | 1     | TLD                 | D4                 | 25B                |                     |
| CONNECTOR (XA427) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |         |             |      |       |        |        |          |      |         |                  |       |                     |                    |                    |                     |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA427  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 309

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | POS | PREFIX | CONNECTOR | PIN | POS | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 16632         |        | XA427     | 48                              |     | XA427  | 56        |     |     |             | 16B  | 9     |       | TTSAM0  | 07     | TA05SD   | 01   | 1      | TLD              | D2    |                     | 22A                |                    |        |
| 05874         |        | XA427     | 49                              |     | XA424  | 56        |     |     |             | 16B  | 9     |       | SPI033  | 23     |          | 01   | 2      | TLD              | D4    |                     | 26B                |                    |        |
| 08667         |        | XA427     | 50                              |     | XA428  | 68        |     |     |             | 16B  | 9     |       | TA05C0  | 01     | TA05SD   | 01   | 2      | TLD              | D2    |                     | 23A                |                    |        |
| 20390         |        | XA427     | 51                              |     |        |           |     |     |             |      |       | M     | SPO028  | 01     |          | 00   | 1      | TLD              | D4    |                     | 27B                |                    |        |
| 03558         |        | XA427     | 52                              |     |        |           |     |     |             |      |       | P     | TA04SD  | 10     | JDB04B4  | 03   | 1      | TLD              | D1    |                     | 24A                | ADDRESS TO CPU     |        |
| 08645         |        | XA427     | 52                              |     |        |           |     |     |             |      |       | J     | TA04SD  | 01     | TA04SD   | 00   | 1      | TLD              | D1    |                     | 24A                | JDB04B4 BUSS C07   |        |
| 05897         |        | XA427     | 53                              |     | XA427  | 61        |     |     |             | 16B  | 9     |       | SPI034  | 14     |          | 01   | 1      | TLD              | E3    |                     | 28B                |                    |        |
| 08643         |        | XA427     | 54                              |     | XA428  | 63        |     |     |             | 16B  | 9     |       | TA04C0  | 01     | TA04SD   | 01   | 1      | TLD              | D1    |                     | 25A                |                    |        |
| 05945         |        | XA427     | 55                              |     | XA121  | 37        |     |     |             | 16B  | 9     |       | SPI035  | 29     |          | 01   | 2      | TLD              | E3    |                     | 29B                |                    |        |
| 16033         |        | XA427     | 56                              |     |        |           |     |     |             |      |       |       | TTSAM0  | 08     | TA04SD   | 01   | 2      | TLD              | D1    |                     | 26A                |                    |        |
| 20393         |        | XA427     | 57                              |     |        |           |     |     |             |      |       | M     | SPO031  | 01     |          | 00   | 1      | TLD              | E3    |                     | 30B                |                    |        |
| 02792         |        | XA427     | 58                              |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | TLD              |       |                     | 40A                |                    |        |
| 05944         |        | XA427     | 59                              |     | XA427  | 55        |     |     |             | 16B  | 9     |       | SPI035  | 28     |          | 01   | 1      | TLD              | E4    |                     | 31B                |                    |        |
| 20392         |        | XA427     | 60                              |     |        |           |     |     |             |      |       | M     | SPO030  | 01     |          | 00   | 1      | TLD              | E2    |                     | 28A                |                    |        |
| 05898         |        | XA427     | 61                              |     | XA427  | 64        |     |     |             | 16B  | 9     |       | SPI034  | 15     |          | 01   | 2      | TLD              | E4    |                     | 32B                |                    |        |
| 05873         |        | XA427     | 62                              |     | XA427  | 49        |     |     |             | 16B  | 9     |       | SPI033  | 22     |          | 01   | 1      | TLD              | E2    |                     | 29A                |                    |        |
| 20394         |        | XA427     | 63                              |     |        |           |     |     |             |      |       | M     | SP0032  | 01     |          | 00   | 1      | TLD              | E4    |                     | 33B                |                    |        |
| 05899         |        | XA427     | 64                              |     | XA427  | 70        |     |     |             | 16B  | 9     |       | SPI034  | 16     |          | 01   | 2      | TLD              | E2    |                     | 30A                |                    |        |
| 05943         |        | XA427     | 65                              |     | XA427  | 59        |     |     |             | 16B  | 9     |       | SPI035  | 27     |          | 01   | 1      | TLD              | F3    |                     | 34B                |                    |        |
| 20391         |        | XA427     | 66                              |     |        |           |     |     |             |      |       | M     | SPO029  | 01     |          | 00   | 1      | TLD              | E1    |                     | 31A                |                    |        |
| 02793         |        | XA427     | 67                              |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | TLD              |       |                     |                    |                    |        |
| 05872         |        | XA427     | 68                              |     | XA427  | 62        |     |     |             | 16B  | 9     |       | SPI033  | 21     |          | 01   | 1      | TLD              | E1    |                     | 32A                |                    |        |
| 20397         |        | XA427     | 69                              |     |        |           |     |     |             |      |       | M     | SP0035  | 01     |          | 00   | 1      | TLD              | F3    |                     | 35A                |                    |        |
| 05900         |        | XA427     | 70                              |     | XA427  | 74        |     |     |             | 16B  | 9     |       | SPI034  | 17     |          | 01   | 2      | TLD              | E1    |                     | 33A                |                    |        |
| 05906         |        | XA427     | 71                              |     | XA426  | 75        |     |     |             | 16B  | 9     |       | SPI034  | 23     |          | 01   | 1      | TLD              | F2    |                     | 36A                |                    |        |
| 20396         |        | XA427     | 72                              |     |        |           |     |     |             |      |       | M     | SP0034  | 01     |          | 00   | 1      | TLD              | F2    |                     | 34A                |                    |        |
| 05942         |        | XA427     | 73                              |     | XA427  | 65        |     |     |             | 16B  | 9     |       | SPI035  | 26     |          | 01   | 2      | TLD              | F2    |                     | 36B                |                    |        |
| 05901         |        | XA427     | 74                              |     | XA427  | 76        |     |     |             | 16B  | 9     |       | SPI034  | 18     |          | 01   | 2      | TLD              | F3    |                     | 35B                |                    |        |
| 20395         |        | XA427     | 75                              |     |        |           |     |     |             |      |       | M     | SP0033  | 01     |          | 00   | 1      | TLD              | F1    |                     | 37B                |                    |        |
| 05902         |        | XA427     | 76                              |     | XA427  | 77        |     |     |             | 16B  | 9     |       | SPI034  | 19     |          | 01   | 1      | TLD              | F4    |                     | 37A                |                    |        |
| 05903         |        | XA427     | 77                              |     | XA426  | 76        |     |     |             | 16B  | 9     |       | SPI034  | 20     |          | 01   | 1      | TLD              | F1    |                     | 38B                |                    |        |
| 05940         |        | XA427     | 78                              |     | XA427  | 79        |     |     |             | 16B  | 9     |       | SPI035  | 24     |          | 01   | 2      | TLD              | F4    |                     | 38A                |                    |        |
| 05941         |        | XA427     | 79                              |     | XA427  | 73        |     |     |             | 16B  | 9     |       | SPI035  | 25     |          | 01   | 2      | TLD              | F1    |                     | 39B                |                    |        |
| 20398         |        | XA427     | 80                              |     |        |           |     |     |             |      |       | M     | SPO036  | 01     |          | 00   | 1      | TLD              | F4    |                     | 39A                |                    |        |
| 12495         |        | XA428     | 01                              |     | XA418  | 08        |     |     |             | 16B  | 9     |       | TEGND A | 01     | TEGND A  | 00   | 1      | THI              | A4    |                     | 02B                |                    |        |
| 02794         |        | XA428     | 02                              |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     | 01A                |                    |        |
| 10977         |        | XA428     | 03                              |     | XA417  | 49        |     |     |             | 16B  | 9     |       | TDLPA0  | 01     | TDLPA0   | 00   | 1      | THI              | A3    |                     | 03A                |                    |        |
| 10975         |        | XA428     | 04                              |     | XA208  | 01        |     |     |             | 16B  | 9     |       | TDLPA0  | 01     | TDLPA0   | 01   | 1      | THI              | A3    |                     | 02A                |                    |        |
| 05885         |        | XA428     | 05                              |     | XA427  | 10        |     |     |             | 16B  | 9     |       | SPI034  | 02     | TEGND A  | 01   | 1      | THI              | A4    |                     | 03B                |                    |        |
| 20531         |        | XA428     | 06                              |     | XA121  | 48        |     |     |             | 16B  | 9     |       | SPI038  | 37     |          | 01   | 1      | THI              | A2    |                     | 05A                |                    |        |
| 14451         |        | XA428     | 07                              |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | A5    |                     | 04B                | MEM STATE MOI- UNL |        |
| 14428         |        | XA428     | 08                              |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | A2    |                     | 04A                | MEM STATE MOD* UNL |        |
| 20532         |        | XA428     | 09                              |     | XA428  | 06        |     |     |             | 16B  | 9     |       | SPI038  | 36     |          | 01   | 1      | THI              | A5    |                     | 05B                |                    |        |
| 17042         |        | XA428     | 10                              |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | A6    |                     | 06B                | OFR CMD FROM CPU   |        |
| 05887         |        | XA428     | 11                              |     | XA428  | 17        |     |     |             | 16B  | 9     |       | SPI034  | 04     | T0GND A  | 01   | 1      | THI              | A1    |                     | 07A                |                    |        |
| 00610         |        | XA428     | 12                              |     |        |           |     |     |             |      |       |       | +5V     | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 10715         |        | XA428     | 13                              |     |        |           |     |     |             |      |       |       | T0GND A | 10     | T0GND A  | 00   | 1      | THI              | A1    |                     | 06A                |                    |        |
| 07961         |        | XA428     | 14                              |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | B4    |                     | 08B                |                    |        |
| CONNECTOR     |        | XA428     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA428  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 310

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH FT | PREFIX | CONNECTOR | PIN | SH FT | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |      |                  |       |                     |                    |                    |        |
| 03809   |        | XA428     | 15  |       | XA428  | 09        |     |       |             | 16B  | 9     |       | SPI038  | 35     |          | 01   | 1    | THI              | A6    |                     | 07B                |                    |        |
| 02795   |        | XA428     | 16  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |      | THI              |       |                     | 20B                |                    |        |
| 05888   |        | XA428     | 17  |       | XA428  | 21        |     |       |             | 16B  | 9     |       | SPI034  | 05     |          | 01   | 1    | THI              | B4    |                     | 09B                |                    |        |
| 17319   |        | XA428     | 18  |       |        |           |     |       |             |      |       |       | UICPEO  | 02     | UICPEO   | 00   | 1    | THI              | B3    |                     | 09A                | CTS INH PARITY ERR |        |
| 07962   |        | XA428     | 19  |       |        |           |     |       |             |      |       |       | SPO     | 01     |          | 00   | 1    | THI              | B5    |                     | 10B                |                    |        |
| 17317   |        | XA428     | 20  |       |        |           |     |       |             |      |       |       | UICPEB4 | 02     | UICPEO   | 01   | 1    | THI              | B3    |                     | 10A                |                    |        |
| 05889   |        | XA428     | 21  |       | XA427  | 20        |     |       |             | 16B  | 9     |       | SPI034  | 06     |          | 01   | 1    | THI              | B5    |                     | 11B                |                    |        |
| 12552   |        | XA428     | 22  |       |        |           |     |       |             |      |       |       | TERSA0  | 03     | TERSBA   | 01   | 1    | THI              | B1    |                     | 14A                |                    |        |
| 16526   |        | XA428     | 23  |       | XA305  | 10        |     |       |             | 16B  | 9     |       | TS77AA  | 04     | TS77A0   | 01   | 1    | THI              | B2    |                     | 12A                |                    |        |
| 12557   |        | XA428     | 24  |       |        |           |     |       |             |      |       |       | TERSBA  | 05     | TERSBA   | 00   | 1    | THI              | B1    |                     | 13A                |                    |        |
| 16531   |        | XA428     | 25  |       |        |           |     |       |             |      |       |       | TS77A0  | 02     | TS77A0   | 00   | 1    | THI              | B2    |                     | 11A                |                    |        |
| 17338   |        | XA428     | 26  |       |        |           |     |       |             |      |       |       | UICSS0  | 02     | UICSS0   | 00   | 1    | THI              | B6    |                     | 12B                | CTS STEP MODE PULS |        |
| 17336   |        | XA428     | 27  |       |        |           |     |       |             |      |       |       | UICSSB4 | 02     | UICSS0   | 01   | 1    | THI              | B6    |                     | 13B                |                    |        |
| 00611   |        | XA428     | 28  |       |        |           |     |       |             |      |       |       | +5V     | 01     |          |      |      | THI              |       |                     |                    |                    |        |
| 05894   |        | XA428     | 29  |       | XA428  | 36        |     |       |             | 16B  | 9     |       | SPI034  | 11     |          | 01   | 1    | THI              | C4    |                     | 15B                |                    |        |
| 07963   |        | XA428     | 30  |       |        |           |     |       |             |      |       |       | SPO     | 01     |          | 00   | 1    | THI              | C4    |                     | 14B                |                    |        |
| 17327   |        | XA428     | 31  |       |        |           |     |       |             |      |       |       | UICSC0  | 02     | UICSC0   | 00   | 1    | THI              | C5    |                     | 16B                |                    |        |
| 02796   |        | XA428     | 32  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |      | THI              |       |                     | 21B                |                    |        |
| 17325   |        | XA428     | 33  |       |        |           |     |       |             |      |       |       | UICSCB4 | 02     | UICSC0   | 01   | 1    | THI              | C5    |                     | 17B                |                    |        |
| 07964   |        | XA428     | 34  |       |        |           |     |       |             |      |       |       | SPO     | 01     |          | 00   | 1    | THI              | C3    |                     | 15A                |                    |        |
| 09891   |        | XA428     | 35  |       |        |           |     |       |             |      |       |       | SPI034  | 34     |          | 01   | 1    | THI              | C2    |                     | 18A                |                    |        |
| 05895   |        | XA428     | 36  |       | XA427  | 47        |     |       |             | 16B  | 9     |       | SPI034  | 12     |          | 01   | 1    | THI              | C3    |                     | 16A                |                    |        |
| 09894   |        | XA428     | 37  |       |        |           |     |       |             |      |       |       | SPO     | 01     |          | 00   | 1    | THI              | C2    |                     | 17A                | CH. SEL IOM        |        |
| 17329   |        | XA428     | 38  |       |        |           |     |       |             |      |       |       | UICSMB4 | 02     | UICSMO   | 01   | 1    | THI              | C1    |                     | 20A                |                    |        |
| 09949   |        | XA428     | 39  |       | XA525  | 64        |     |       |             | 16B  | 9     |       | TCS1A0  | 02     | TCS1A0   | 01   | 1    | THI              | C6    |                     | 19B                |                    |        |
| 17330   |        | XA428     | 40  |       | XA341  | 08        |     |       |             | 16B  | 9     |       | UICSMO  | 01     | UICSMO   | 00   | 1    | THI              | C1    |                     | 19A                | CTS IOC STEP MODE  |        |
| 09986   |        | XA428     | 41  |       |        |           |     |       |             |      |       |       | TCS4AA  | 03     | TCS4A0   | 01   | 1    | THI              | D4    |                     | 23B                |                    |        |
| 09958   |        | XA428     | 42  |       | XA417  | 54        |     |       |             | 16B  | 9     |       | TCS1A0  | 03     | TCS1A0   | 00   | 1    | THI              | C6    |                     | 18B                | CH SEL IOX 1       |        |
| 10006   |        | XA428     | 43  |       | XA417  | 74        |     |       |             | 16B  | 9     |       | TCS5A0  | 03     | TCS5A0   | 00   | 1    | THI              | D5    |                     | 24B                | CH SEL IOX 5       |        |
| 02797   |        | XA428     | 44  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |      | THI              |       |                     | 27A                |                    |        |
| 09998   |        | XA428     | 45  |       |        |           |     |       |             |      |       |       | TCS5AA  | 03     | TCS5A0   | 01   | 1    | THI              | D5    |                     | 25B                |                    |        |
| 09994   |        | XA428     | 46  |       | XA417  | 73        |     |       |             | 16B  | 9     |       | TCS4A0  | 03     | TCS4A0   | 00   | 1    | THI              | D4    |                     | 22B                | CH SEL IOX 4       |        |
| 10010   |        | XA428     | 47  |       |        |           |     |       |             |      |       |       | TCS6AA  | 03     | TCS6A0   | 01   | 1    | THI              | D2    |                     | 24A                |                    |        |
| 09982   |        | XA428     | 48  |       | XA417  | 71        |     |       |             | 16B  | 9     |       | TCS3A0  | 03     | TCS3A0   | 00   | 1    | THI              | D3    |                     | 21A                | CH SEL IOX 3       |        |
| 10018   |        | XA428     | 49  |       | XA417  | 70        |     |       |             | 16B  | 9     |       | TCS6A0  | 03     | TCS6A0   | 00   | 1    | THI              | D2    |                     | 23A                | CH SEL IOX 6       |        |
| 09973   |        | XA428     | 50  |       | XA518  | 64        |     |       |             | 16B  | 9     |       | TCS3AA  | 02     | TCS3A0   | 01   | 1    | THI              | D3    |                     | 22A                |                    |        |
| 10021   |        | XA428     | 51  |       |        |           |     |       |             |      |       |       | TCS7AA  | 02     | TCS7A0   | 01   | 1    | THI              | D6    |                     | 27B                |                    |        |
| 09961   |        | XA428     | 52  |       | XA531  | 64        |     |       |             | 16B  | 9     |       | TCS2AA  | 02     | TCS2A0   | 01   | 1    | THI              | D1    |                     | 26A                |                    |        |
| 10028   |        | XA428     | 53  |       | XA431  | 68        |     |       |             | 16B  | 9     |       | TCS7A0  | 02     | TCS7A0   | 00   | 1    | THI              | D6    |                     | 26B                | CH SEL IOX 7       |        |
| 09970   |        | XA428     | 54  |       | XA417  | 50        |     |       |             | 16B  | 9     |       | TCS2A0  | 03     | TCS2A0   | 00   | 1    | THI              | D1    |                     | 25A                | CH SEL IOX 2       |        |
| 08585   |        | XA428     | 55  |       | XA414  | 08        |     |       |             | 16B  | 9     |       | TA02BP  | 06     | TA02C0   | 01   | 1    | THI              | E4    |                     | 29B                |                    |        |
| 08595   |        | XA428     | 56  |       |        |           |     |       |             |      |       |       | TA02C0  | 02     | TA02C0   | 00   | 1    | THI              | E4    |                     | 28B                | ADD REG 2 UNLOAD   |        |
| 08620   |        | XA428     | 57  |       |        |           |     |       |             |      |       |       | TA03C0  | 02     | TA03C0   | 00   | 1    | THI              | E5    |                     | 30B                | ADD REG 3 UNLOAD   |        |
| 02798   |        | XA428     | 58  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |      | THI              |       |                     | 40A                |                    |        |
| 08610   |        | XA428     | 59  |       | XA414  | 10        |     |       |             | 16B  | 9     |       | TA03BP  | 06     | TA03C0   | 01   | 1    | THI              | E5    |                     | 31B                |                    |        |
| 08570   |        | XA428     | 60  |       |        |           |     |       |             |      |       |       | TA01C0  | 02     | TA01C0   | 00   | 1    | THI              | E3    |                     | 28A                | ADD REG 1 UNLOAD   |        |
| 08630   |        | XA428     | 61  |       | XA434  | 56        |     |       |             | 16B  | 9     |       | TA04BP  | 01     | TA04C0   | 00   | 1    | THI              | E2    |                     | 31A                |                    |        |
| 08560   |        | XA428     | 62  |       | XA414  | 06        |     |       |             | 16B  | 9     |       | TA01BP  | 06     | TA01C0   | 01   | 1    | THI              | E3    |                     | 29A                |                    |        |
| 08644   |        | XA428     | 63  |       |        |           |     |       |             |      |       |       | TA04C0  | 02     | TA04C0   | 00   | 1    | THI              | E2    |                     | 30A                | ADD REG 4 UNLOAD   |        |
| 08537   |        | XA428     | 64  |       | XA442  | 11        |     |       |             | 16B  | 9     |       | TA00BP  | 01     | TA00C0   | 01   | 1    | THI              | E1    |                     | 33A                |                    |        |
| CONNECTOR (XA428) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |         |        |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA428  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 311

| RECORD NUMBER                                   | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       | SIGNAL | SEQ NO  | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | LOAD OR POWER PLANE | TEST POINTS AND DR | SIGNAL DESCRIPTION | ECO NO |                    |     |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|--------|---------|----------|--------|--------|------------------|---------------------|--------------------|--------------------|--------|--------------------|-----|
|   | PREFIX | CONNECTOR | PIN | DR # | PREFIX | CONNECTOR | PIN | DR # | MULTI-GROUP | CODE | COLOR |        |         |          |        |        |                  |                     |                    |                    |        | IDENT              |     |
| 08654   |        | XA428     | 65  |      | XA434  | 68        |     |      |             | 16B  | 9     |        | TA05BP  | 01       | TA05C0 | 01     | 1                | THI                 | E6                 |                    | 33B    |                    |     |
| 08547   |        | XA428     | 66  |      |        |           |     |      |             |      |       |        | TA00C0  | 02       | TA00C0 | 00     | 1                | THI                 | E1                 |                    | 32A    | ADD REG 0 UNLOAD   |     |
| 02799   |        | XA428     | 67  |      |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | THI                 |                    |                    |        |                    |     |
| 08668   |        | XA428     | 68  |      |        |           |     |      |             |      |       |        | TA05C0  | 02       | TA05C0 | 00     | 1                | THI                 | E6                 |                    | 32B    | ADD REG 5 UNLOAD   |     |
| 05947   |        | XA428     | 69  |      | XA428  | 74        |     |      |             | 16B  | 9     |        | SPI036  | 01       |        |        |                  | THI                 | F3                 |                    | 39B    |                    |     |
| 07965   |        | XA428     | 70  |      |        |           |     |      |             |      |       |        | SPO     | 01       |        |        |                  | THI                 | F3                 |                    | 34B    |                    |     |
| 17322   |        | XA428     | 71  |      | XA205  | 22        |     |      |             | 16B  | 9     |        | UICRTO  | 01       | UICRTO | 00     | 1                | THI                 | F2                 |                    | 36B    | CTS RD IOU STAT RE |     |
| 07966   |        | XA428     | 72  |      |        |           |     |      |             |      |       |        | SPO     | 01       |        |        |                  | THI                 | F4                 |                    | 34A    |                    |     |
| 17321   |        | XA428     | 73  |      |        |           |     |      |             |      |       |        | UICRTB4 | 02       | UICRTO | 01     | 1                | THI                 | F2                 |                    | 37B    |                    |     |
| 05948   |        | XA428     | 74  |      | XA433  | 77        |     |      |             | 16B  | 9     |        | SPI036  | 02       |        |        |                  | THI                 | F4                 |                    | 35A    |                    |     |
| 17344   |        | XA428     | 75  |      |        |           |     |      |             |      |       |        | UICTDB4 | 02       | UICTD0 | 01     | 1                | THI                 | F6                 |                    | 39A    |                    |     |
| 08676   |        | XA428     | 76  |      | XA434  | 70        |     |      |             | 16B  | 9     |        | TA06BP  | 01       | TA06C0 | 01     | 1                | THI                 | F5                 |                    | 37A    |                    |     |
| 17346   |        | XA428     | 77  |      |        |           |     |      |             |      |       |        | UICTD0  | 02       | UICTD0 | 00     | 1                | THI                 | F6                 |                    | 38A    |                    |     |
| 08690   |        | XA428     | 78  |      |        |           |     |      |             |      |       |        | TA06C0  | 02       | TA06C0 | 00     | 1                | THI                 | F5                 |                    | 36A    | ADD REG 6 UNLOAD   |     |
| 17340   |        | XA428     | 79  |      |        |           |     |      |             |      |       |        | UICTAB4 | 02       | UICTA0 | 01     | 1                | THI                 | F1                 |                    | 39B    |                    |     |
| 17342   |        | XA428     | 80  |      |        |           |     |      |             |      |       |        | UICTA0  | 02       | UICTA0 | 00     | 1                | THI                 | F1                 |                    | 38B    | CTS READ TA REC    |     |
| 01473   |        | XA429     | 01  |      |        |           |     |      |             |      |       |        | DNW     | 01       |        |        |                  | RR4                 |                    |                    |        |                    |     |
| 02800   |        | XA429     | 02  |      |        |           |     |      |             |      |       |        | GND     | 01       |        |        |                  | RR4                 |                    |                    |        |                    |     |
| 21367   |        | XA429     | 02  |      | XA429  | 06        |     |      |             | 16B  | 9     |        | G42902  | 01       |        |        |                  | RR4                 |                    |                    |        |                    | B05 |
| 00110   |        | XA429     | 03  |      | XA430  | 33        |     |      |             | 16B  | 9     |        | +5VDCF  | 595      |        |        |                  | RR4                 | AP                 |                    |        |                    | B05 |
| 00111   |        | XA429     | 04  |      | XA429  | 03        |     |      |             | 16B  | 9     |        | +5VDCF  | 590      |        |        |                  | RR4                 | AP                 |                    |        |                    | B05 |
| 20025   |        | XA429     | 05  |      | XA418  | 65        |     |      |             | 16B  | 9     |        | YI0PCB4 | 01       |        |        |                  | RR4                 | A3                 |                    |        |                    |     |
| 03404   |        | XA429     | 06  |      | XA429  | 18        |     |      |             | 16B  | 9     |        | G42902  | 02       |        |        |                  | RR4                 | AC                 |                    |        |                    | B05 |
| 20030   |        | XA429     | 07  |      | XA419  | 07        |     |      |             | 16B  | 9     |        | YI00CB4 | 01       |        |        |                  | RR4                 | A4                 |                    |        |                    |     |
| 20017   |        | XA429     | 08  |      | XA418  | 46        |     |      |             | 16B  | 9     |        | YADCCB4 | 01       |        |        |                  | RR4                 | A1                 |                    |        |                    |     |
| 20035   |        | XA429     | 09  |      | XA419  | 17        |     |      |             | 16B  | 9     |        | YI01CB4 | 01       |        |        |                  | RR4                 | A5                 |                    |        |                    |     |
| 20020   |        | XA429     | 10  |      | XA418  | 27        |     |      |             | 16B  | 9     |        | YHLCCB4 | 01       |        |        |                  | RR4                 | A2                 |                    |        |                    |     |
| 01474   |        | XA429     | 11  |      |        |           |     |      |             |      |       |        | DNW     | 01       |        |        |                  | RR4                 |                    |                    |        |                    |     |
| 00612   |        | XA429     | 12  |      |        |           |     |      |             |      |       |        | +5V     | 01       |        |        |                  | RR4                 |                    |                    |        |                    |     |
| 00112   |        | XA429     | 13  |      | XA429  | 04        |     |      |             | 16B  | 9     |        | +5VDCF  | 585      |        |        |                  | RR4                 | BP                 |                    |        |                    | B05 |
| 00113   |        | XA429     | 14  |      | XA429  | 13        |     |      |             | 16B  | 9     |        | +5VDCF  | 580      |        |        |                  | RR4                 | BP                 |                    |        |                    | B05 |
| 03888   |        | XA429     | 15  |      |        |           |     |      |             |      |       |        | DNW     | 01       |        |        |                  | RR4                 |                    |                    |        |                    | C04 |
| 03889   |        | XA429     | 16  |      |        |           |     |      |             |      |       |        | DNW     | 01       |        |        |                  | RR4                 |                    |                    |        |                    | C04 |
| 20055   |        | XA429     | 17  |      | XA419  | 37        |     |      |             | 16B  | 9     |        | YI05CB4 | 01       |        |        |                  | RR4                 | B4                 |                    |        |                    |     |
| 03405   |        | XA429     | 18  |      | XA429  | 30        |     |      |             | 16B  | 9     |        | G42902  | 03       |        |        |                  | RR4                 | BC                 |                    |        |                    | B05 |
| 20060   |        | XA429     | 19  |      | XA419  | 41        |     |      |             | 16B  | 9     |        | YI06CB4 | 01       |        |        |                  | RR4                 | B5                 |                    |        |                    |     |
| 20040   |        | XA429     | 20  |      | XA419  | 14        |     |      |             | 16B  | 9     |        | YI02CB4 | 01       |        |        |                  | RR4                 | B1                 |                    |        |                    |     |
| 00114   |        | XA429     | 21  |      | XA429  | 14        |     |      |             | 16B  | 9     |        | +5VDCF  | 575      |        |        |                  | RR4                 | CP                 |                    |        |                    | B05 |
| 00115   |        | XA429     | 22  |      | XA429  | 21        |     |      |             | 16B  | 9     |        | +5VDCF  | 570      |        |        |                  | RR4                 | CP                 |                    |        |                    | B05 |
| 20075   |        | XA429     | 23  |      | XA419  | 55        |     |      |             | 16B  | 9     |        | YI09CB4 | 01       |        |        |                  | RR4                 | C3                 |                    |        |                    |     |
| 20050   |        | XA429     | 24  |      | XA419  | 27        |     |      |             | 16B  | 9     |        | YI04CB4 | 01       |        |        |                  | RR4                 | B3                 |                    |        |                    |     |
| 20080   |        | XA429     | 25  |      | XA419  | 60        |     |      |             | 16B  | 9     |        | YI10CB4 | 01       |        |        |                  | RR4                 | C4                 |                    |        |                    |     |
| 20045   |        | XA429     | 26  |      | XA419  | 01        |     |      |             | 16B  | 9     |        | YI03CB4 | 01       |        |        |                  | RR4                 | B2                 |                    |        |                    |     |
| 01475   |        | XA429     | 27  |      |        |           |     |      |             |      |       |        | DNW     | 01       |        |        |                  | RR4                 |                    |                    |        |                    |     |
| 00613   |        | XA429     | 28  |      |        |           |     |      |             |      |       |        | +5V     | 01       |        |        |                  | RR4                 |                    |                    |        |                    |     |
| 20085   |        | XA429     | 29  |      | XA419  | 43        |     |      |             | 16B  | 9     |        | YI11CB4 | 01       |        |        |                  | RR4                 | C5                 |                    |        |                    |     |
| 03408   |        | XA429     | 30  |      | XA429  | 40        |     |      |             | 16B  | 9     |        | G42902  | 04       |        |        |                  | RR4                 | CC                 |                    |        |                    | B05 |
| 01476   |        | XA429     | 31  |      |        |           |     |      |             |      |       |        | DNW     | 01       |        |        |                  | RR4                 |                    |                    |        |                    |     |
| CONNECTOR XA429 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |        |         |          |        |        |                  |                     |                    |                    |        |                    |     |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA429  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 312

| RECORD NUMBER                                     | FROM   |           |     | 2<br>S<br>E | TO     |           |     | WIRE          |      |       | SFC INST<br>MISC | SIGNAL    | SEQ NO | EQUATION | TERM | FACTOR | CKT OR<br>CHIP<br>TYPE | GROUP | LOAD OR<br>POWER<br>PLANE | TEST POINT'S<br>AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------------|--------|-----------|-----|---------------|------|-------|------------------|-----------|--------|----------|------|--------|------------------------|-------|---------------------------|------------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |             | PREFIX | CONNECTOR | PIN | WIRE<br>GROUP | CODE | COLOR |                  |           |        |          |      |        |                        |       |                           |                        |                    |        |
| 02801   |        | XA429     | 32  |             |        |           |     |               |      |       | GND              | 01        |        |          |      | RR4    |                        |       |                           |                        |                    |        |
| 21368   |        | XA429     | 32  |             |        |           |     |               |      |       | G42902           | 06        |        |          |      | RR4    |                        |       |                           |                        | 805                |        |
| 00116   |        | XA429     | 33  |             |        | XA429     | 22  |               |      | 168   | 9                | +5VDCF    | 565    |          |      | RR4    | DP                     |       |                           |                        | 805                |        |
| 00117   |        | XA429     | 34  |             |        | XA429     | 33  |               |      | 168   | 9                | +5VDCF    | 560    |          |      | RR4    | DP                     |       |                           |                        | 805                |        |
| 20100   |        | XA429     | 35  |             |        | XA419     | 80  |               |      | 168   | 9                | YI14CB4   | 01     |          |      | RR4    | D3                     |       |                           |                        |                    |        |
| 20065   |        | XA429     | 36  |             |        | XA419     | 23  |               |      | 168   | 9                | YI07CB4   | 01     |          |      | RR4    | C1                     |       |                           |                        |                    |        |
| 20105   |        | XA429     | 37  |             |        | XA419     | 61  |               |      | 168   | 9                | YI15CB4   | 01     |          |      | RR4    | D4                     |       |                           |                        |                    |        |
| 20070   |        | XA429     | 38  |             |        | XA419     | 46  |               |      | 168   | 9                | YI08CB4   | 01     |          |      | RR4    | C2                     |       |                           |                        |                    |        |
| 20110   |        | XA429     | 39  |             |        | XA416     | 46  |               |      | 168   | 9                | YI16CB4   | 01     |          |      | RR4    | D5                     |       |                           |                        |                    |        |
| 03409   |        | XA429     | 40  |             |        | XA429     | 32  |               |      | 168   | 9                | G42902    | 05     |          |      | RR4    | DC                     |       |                           |                        | 805                |        |
| 20135   |        | XA429     | 41  |             |        | XA416     | 78  |               |      | 168   | 9                | YI21CB4   | 01     |          |      | RR4    | E5                     |       |                           |                        |                    |        |
| 20090   |        | XA429     | 42  |             |        | XA419     | 65  |               |      | 168   | 9                | YI12CB4   | 01     |          |      | RR4    | D1                     |       |                           |                        |                    |        |
| 01477   |        | XA429     | 43  |             |        |           |     |               |      |       |                  | DNW       | 01     |          |      | RR4    |                        |       |                           |                        |                    |        |
| 02802   |        | XA429     | 44  |             |        |           |     |               |      |       | GND              | 01        |        |          |      | RR4    |                        |       |                           |                        |                    |        |
| 21369   |        | XA429     | 44  |             |        | XA429     | 54  |               |      | 168   | 9                | G42944    | 01     |          |      | RR4    |                        |       |                           |                        | 805                |        |
| 20130   |        | XA429     | 45  |             |        | XA416     | 65  |               |      | 168   | 9                | YI20CB4   | 01     |          |      | RR4    | E4                     |       |                           |                        |                    |        |
| 20095   |        | XA429     | 46  |             |        | XA419     | 78  |               |      | 168   | 9                | YI13CB4   | 01     |          |      | RR4    | D2                     |       |                           |                        |                    |        |
| 20125   |        | XA429     | 47  |             |        | XA416     | 43  |               |      | 168   | 9                | YI19CB4   | 01     |          |      | RR4    | E3                     |       |                           |                        |                    |        |
| 20120   |        | XA429     | 48  |             |        | XA416     | 60  |               |      | 168   | 9                | YI18CB4   | 01     |          |      | RR4    | E2                     |       |                           |                        |                    |        |
| 00118   |        | XA429     | 49  |             |        | XA429     | 34  |               |      | 168   | 9                | +5VDCF    | 555    |          |      | RR4    | EP                     |       |                           |                        | 805                |        |
| 00119   |        | XA429     | 50  |             |        | XA429     | 49  |               |      | 168   | 9                | +5VDCF    | 550    |          |      | RR4    | EP                     |       |                           |                        | 805                |        |
| 20160   |        | XA429     | 51  |             |        | XA420     | 14  |               |      | 168   | 9                | YI26CB4   | 01     |          |      | RR4    | F5                     |       |                           |                        |                    |        |
| 20115   |        | XA429     | 52  |             |        | XA416     | 55  |               |      | 168   | 9                | YI17CB4   | 01     |          |      | RR4    | E1                     |       |                           |                        |                    |        |
| 20155   |        | XA429     | 53  |             |        | XA420     | 17  |               |      | 168   | 9                | YI25CB4   | 01     |          |      | RR4    | F4                     |       |                           |                        |                    |        |
| 03412   |        | XA429     | 54  |             |        | XA429     | 64  |               |      | 168   | 9                | G42944    | 02     |          |      | RR4    | EC                     |       |                           |                        | 805                |        |
| 20150   |        | XA429     | 55  |             |        | XA420     | 07  |               |      | 168   | 9                | YI24CB4   | 01     |          |      | RR4    | F3                     |       |                           |                        |                    |        |
| 20145   |        | XA429     | 56  |             |        | XA416     | 61  |               |      | 168   | 9                | YI23CB4   | 01     |          |      | RR4    | F2                     |       |                           |                        |                    |        |
| 03890   |        | XA429     | 57  |             |        |           |     |               |      |       |                  | DNW       | 01     |          |      | RR4    |                        |       |                           | KEYWAY                 | C04                |        |
| 03891   |        | XA429     | 58  |             |        |           |     |               |      |       |                  | DNW       | 01     |          |      | RR4    |                        |       |                           | KEYWAY                 | C04                |        |
| 00120   |        | XA429     | 59  |             |        | XA429     | 50  |               |      | 168   | 9                | +5VDCF    | 545    |          |      | RR4    | FP                     |       |                           |                        | 805                |        |
| 00121   |        | XA429     | 60  |             |        | XA429     | 59  |               |      | 168   | 9                | +5VDCF    | 540    |          |      | RR4    | FP                     |       |                           |                        | 805                |        |
| 20185   |        | XA429     | 61  |             |        | XA420     | 23  |               |      | 168   | 9                | YI31CB4   | 01     |          |      | RR4    | G5                     |       |                           |                        |                    |        |
| 20140   |        | XA429     | 62  |             |        | XA416     | 80  |               |      | 168   | 9                | YI22CB4   | 01     |          |      | RR4    | F1                     |       |                           |                        |                    |        |
| 20180   |        | XA429     | 63  |             |        | XA420     | 41  |               |      | 168   | 9                | YI30CB4   | 01     |          |      | RR4    | G4                     |       |                           |                        |                    |        |
| 03413   |        | XA429     | 64  |             |        | XA429     | 74  |               |      | 168   | 9                | G42944    | 03     |          |      | RR4    | FC                     |       |                           |                        | 805                |        |
| 20175   |        | XA429     | 65  |             |        | XA420     | 37  |               |      | 168   | 9                | YI29CB4   | 01     |          |      | RR4    | G3                     |       |                           |                        |                    |        |
| 20170   |        | XA429     | 66  |             |        | XA420     | 27  |               |      | 168   | 9                | YI28CB4   | 01     |          |      | RR4    | G2                     |       |                           |                        |                    |        |
| 02803   |        | XA429     | 67  |             |        |           |     |               |      |       |                  | GND       | 01     |          |      | RR4    |                        |       |                           |                        |                    |        |
| 21117   |        | XA429     | 67  |             |        |           |     |               |      |       |                  | YPRFCG    | 02     |          |      | RR4    |                        |       |                           |                        |                    |        |
| 21370   |        | XA429     | 67  |             |        |           |     |               |      |       |                  | G42944    | 06     |          |      | RR4    |                        |       |                           |                        | 805                |        |
| 01478   |        | XA429     | 68  |             |        |           |     |               |      |       |                  | DNW       | 01     |          |      | RR4    |                        |       |                           |                        |                    |        |
| 00122   |        | XA429     | 69  |             |        | XA429     | 60  |               |      | 168   | 9                | +5VDCF    | 535    |          |      | RR4    | GP                     |       |                           |                        | 805                |        |
| 00123   |        | XA429     | 70  |             |        | XA429     | 69  |               |      | 168   | 9                | +5VDCF    | 530    |          |      | RR4    | GP                     |       |                           |                        | 805                |        |
| 19507   |        | XA429     | 71  |             |        |           |     |               |      |       |                  | TBR SADX4 | 03     |          |      | RR4    | H5                     |       |                           |                        | 805                |        |
| 20165   |        | XA429     | 72  |             |        | XA420     | 01  |               |      | 168   | 9                | YI27CB4   | 01     |          |      | RR4    | G1                     |       |                           |                        |                    |        |
| 07810   |        | XA429     | 73  |             |        |           |     |               |      |       |                  | SPR       | 01     |          |      | RR4    | H4                     |       |                           |                        |                    |        |
| 03416   |        | XA429     | 74  |             |        | XA429     | 77  |               |      | 168   | 9                | G42944    | 04     |          |      | RR4    | GC                     |       |                           |                        | 805                |        |
| 20508   |        | XA429     | 75  |             |        |           |     |               |      |       |                  | TINDADX4  | 02     |          |      | RR4    | H3                     |       |                           |                        | 805                |        |
| 14165   |        | XA429     | 76  |             |        | XA418     | 61  |               |      | 168   | 9                | TRQ7ADX4  | 01     |          |      | RR4    | H2                     |       |                           |                        | 805                |        |
| 03418   |        | XA429     | 77  |             |        | XA429     | 67  |               |      | 168   | 9                | G42944    | 05     |          |      | RR4    | HC                     |       |                           |                        | 805                |        |
| CONNECTOR (XA429) CONTINUED ON THE NEXT PAGE **** |        |           |     |             |        |           |     |               |      |       |                  |           |        |          |      |        |                        |       |                           |                        |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA429  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 313

| RECORD NUMBER                                     | FROM   |           |     | 2 | TO     |           |     | MULTI GROUP | WIRE |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACTS | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|---|--------|-----------|-----|-------------|------|-------|-------|----------|--------|----------|------|-------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |   | PREFIX | CONNECTOR | PIN |             | CODE | COLOR | IDENT |          |        |          |      |       |                  |       |                     |                    |                    |        |
| 20200   |        | XA429     | 78  |   |        |           |     |             |      |       |       | SPR      | 02     |          |      |       | RR4              | H1    |                     |                    | E02                |        |
| 00124   |        | XA429     | 79  |   |        | XA429     | 70  |             | 16B  | 9     |       | +5VDCF   | 525    |          |      |       | RR4              | HP    |                     |                    | B05                |        |
| 00125   |        | XA429     | 80  |   |        | XA429     | 79  |             | 16B  | 9     |       | +5VDCF   | 520    |          |      |       | RR4              | HP    |                     |                    | B05                |        |
| 01479   |        | XA430     | 01  |   |        |           |     |             |      |       |       | DNW      | 01     |          |      |       | RR4              |       |                     |                    |                    |        |
| 02804   |        | XA430     | 02  |   |        |           |     |             |      |       |       | GND      | 01     |          |      |       | RR4              |       |                     |                    |                    |        |
| 21371   |        | XA430     | 02  |   |        | XA430     | 06  |             | 16B  | 9     |       | G43002   | 01     |          |      |       | RR4              |       |                     |                    | B05                |        |
| 00126   |        | XA430     | 03  |   |        | XA430     | 04  |             | 16B  | 9     |       | +05RES   | 600    |          |      |       | RR4              | AP    |                     |                    |                    |        |
| 00127   |        | XA430     | 04  |   |        | XA430     | 13  |             | 16B  | 9     |       | +05RES   | 605    |          |      |       | RR4              | AP    |                     |                    |                    |        |
| 10800   |        | XA430     | 05  |   |        |           |     |             |      |       |       | TD11BB4  | 12     |          |      |       | RR4              | A3    |                     | IOC INPUT DATA BUS |                    |        |
| 03403   |        | XA430     | 06  |   |        | XA430     | 18  |             | 16B  | 9     |       | G43002   | 02     |          |      |       | RR4              | AC    |                     |                    | B05                |        |
| 10827   |        | XA430     | 07  |   |        |           |     |             |      |       |       | TD12BB4  | 12     |          |      |       | RR4              | A4    |                     | IOC INPUT DATA BUS |                    |        |
| 10741   |        | XA430     | 08  |   |        | XA521     | 46  |             | 16B  | 9     |       | TD1PBB4  | 02     |          |      |       | RR4              | A1    |                     | IOC INPUT PARITY B |                    |        |
| 10854   |        | XA430     | 09  |   |        |           |     |             |      |       |       | TD13BB4  | 12     |          |      |       | RR4              | A5    |                     | IOC INPUT DATA BUS |                    |        |
| 10762   |        | XA430     | 10  |   |        | XA425     | 08  |             | 16B  | 9     |       | TD10BB4  | 01     |          |      |       | RR4              | A2    |                     | IOC INPUT DATA BUS |                    |        |
| 01480   |        | XA430     | 11  |   |        |           |     |             |      |       |       | DNW      | 01     |          |      |       | RR4              |       |                     |                    |                    |        |
| 00614   |        | XA430     | 12  |   |        |           |     |             |      |       |       | +5V      | 01     |          |      |       | RR4              |       |                     |                    |                    |        |
| 00128   |        | XA430     | 13  |   |        | XA430     | 14  |             | 16B  | 9     |       | +05RES   | 610    |          |      |       | RR4              | BP    |                     |                    |                    |        |
| 00129   |        | XA430     | 14  |   |        | XA430     | 21  |             | 16B  | 9     |       | +05RES   | 615    |          |      |       | RR4              | BP    |                     |                    |                    |        |
| 03892   |        | XA430     | 15  |   |        |           |     |             |      |       |       | DNW      | 01     |          |      |       | RR4              |       |                     | KEYWAY             | C04                |        |
| 03893   |        | XA430     | 16  |   |        |           |     |             |      |       |       | DNW      | 01     |          |      |       | RR4              |       |                     | KEYWAY             | C04                |        |
| 10962   |        | XA430     | 17  |   |        |           |     |             |      |       |       | TD17BB4  | 12     |          |      |       | RR4              | B4    |                     | IOC INPUT DATA BUS |                    |        |
| 03406   |        | XA430     | 18  |   |        | XA430     | 30  |             | 16B  | 9     |       | G43002   | 03     |          |      |       | RR4              | BC    |                     |                    | B05                |        |
| 13321   |        | XA430     | 19  |   |        | XA425     | 68  |             | 16B  | 9     |       | TINDBB4  | 01     |          |      |       | RR4              | B5    |                     | IOC INDICATOR BUS  |                    |        |
| 10870   |        | XA430     | 20  |   |        | XA424     | 31  |             | 16B  | 9     |       | TD14BB4  | 01     |          |      |       | RR4              | B1    |                     | IOC INPUT DATA BUS |                    |        |
| 00130   |        | XA430     | 21  |   |        | XA430     | 22  |             | 16B  | 9     |       | +05RES   | 620    |          |      |       | RR4              | CP    |                     |                    |                    |        |
| 00131   |        | XA430     | 22  |   |        | XA430     | 69  |             | 16B  | 9     |       | +05RES   | 625    |          |      |       | RR4              | CP    |                     |                    | B05                |        |
| 15380   |        | XA430     | 23  |   |        | XA535     | 46  |             | 16B  | 9     |       | TRQ4BB4  | 02     |          |      |       | RR4              | C3    |                     |                    |                    |        |
| 10924   |        | XA430     | 24  |   |        | XA425     | 24  |             | 16B  | 9     |       | TD16BB4  | 01     |          |      |       | RR4              | B3    |                     | IOC INPUT DATA BUS |                    |        |
| 15396   |        | XA430     | 25  |   |        | XA541     | 46  |             | 16B  | 9     |       | TRQ5BB4  | 02     |          |      |       | RR4              | C4    |                     |                    |                    |        |
| 10908   |        | XA430     | 26  |   |        |           |     |             |      |       |       | TD15BB4  | 12     |          |      |       | RR4              | B2    |                     | IOC INPUT DATA BUS |                    |        |
| 01481   |        | XA430     | 27  |   |        |           |     |             |      |       |       | DNW      | 01     |          |      |       | RR4              |       |                     |                    |                    |        |
| 00615   |        | XA430     | 28  |   |        |           |     |             |      |       |       | +5V      | 01     |          |      |       | RR4              |       |                     |                    |                    |        |
| 15412   |        | XA430     | 29  |   |        | XA415     | 50  |             | 16B  | 9     |       | TRQ6BB4  | 02     |          |      |       | RR4              | C5    |                     |                    |                    |        |
| 03407   |        | XA430     | 30  |   |        | XA430     | 40  |             | 16B  | 9     |       | G43002   | 04     |          |      |       | RR4              | CC    |                     |                    | B05                |        |
| 01482   |        | XA430     | 31  |   |        |           |     |             |      |       |       | DNW      | 01     |          |      |       | RR4              |       |                     |                    |                    |        |
| 02805   |        | XA430     | 32  |   |        |           |     |             |      |       |       | GND      | 01     |          |      |       | RR4              |       |                     |                    |                    |        |
| 21372   |        | XA430     | 32  |   |        |           |     |             |      |       |       | G43002   | 06     |          |      |       | RR4              |       |                     |                    | B05                |        |
| 00132   |        | XA430     | 33  |   |        | XA430     | 34  |             | 16B  | 9     |       | +5VDCF   | 630    |          |      |       | RR4              | DP    |                     |                    | B05                |        |
| 00133   |        | XA430     | 34  |   |        | XA430     | 49  |             | 16B  | 9     |       | +5VDCF   | 635    |          |      |       | RR4              | DP    |                     |                    | B05                |        |
| 10780   |        | XA430     | 35  |   |        | XA418     | 14  |             | 16B  | 9     |       | TD11ADX4 | 01     |          |      |       | RR4              | D3    |                     |                    |                    |        |
| 15334   |        | XA430     | 36  |   |        | XA415     | 42  |             | 16B  | 9     |       | TRQ1BB4  | 01     |          |      |       | RR4              | C1    |                     |                    |                    |        |
| 10807   |        | XA430     | 37  |   |        | XA416     | 41  |             | 16B  | 9     |       | TD12ADX4 | 01     |          |      |       | RR4              | D4    |                     |                    |                    |        |
| 15351   |        | XA430     | 38  |   |        | XA415     | 36  |             | 16B  | 9     |       | TRQ2BB4  | 02     |          |      |       | RR4              | C2    |                     |                    |                    |        |
| 10834   |        | XA430     | 39  |   |        | XA420     | 46  |             | 16B  | 9     |       | TD13ADX4 | 01     |          |      |       | RR4              | D5    |                     |                    |                    |        |
| 03410   |        | XA430     | 40  |   |        | XA430     | 32  |             | 16B  | 9     |       | G43002   | 05     |          |      |       | RR4              | DC    |                     |                    | B05                |        |
| 15326   |        | XA430     | 41  |   |        | XA418     | 55  |             | 16B  | 9     |       | TRQ1ADX4 | 01     |          |      |       | RR4              | E5    |                     |                    |                    |        |
| 10730   |        | XA430     | 42  |   |        | XA418     | 07  |             | 16B  | 9     |       | TD1PADX4 | 01     |          |      |       | RR4              | D1    |                     |                    |                    |        |
| 01483   |        | XA430     | 43  |   |        |           |     |             |      |       |       | DNW      | 01     |          |      |       | RR4              |       |                     |                    |                    |        |
| CONNECTOR (XA430) CONTINUED ON THE NEXT PAGE **** |        |           |     |   |        |           |     |             |      |       |       |          |        |          |      |       |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA430  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 314

| RECORD NUMBER                                     | FROM   |           |     | TO  |        |           | WIRE |      |             |      | SIGNAL | SEQ NO   | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|------|------|-------------|------|--------|----------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | PREFIX | CONNECTOR | PIN  | SIZE | MULTI GROUP | CODE |        |          |          |        |        |                  |       |                     |                    |                    |        |
| 02806   |        | XA430     | 44  |     |        |           |      |      |             |      |        | GND      | 01       |        |        | RR4              |       |                     |                    |                    |        |
| 21373   |        | XA430     | 44  |     | XA430  | 54        |      |      | 16B         | 9    |        | G43044   | 01       |        |        | RR4              |       |                     |                    |                    | B05    |
| 21388   |        | XA430     | 44  |     |        |           |      |      |             |      |        | +05REG   | 08       |        |        |                  |       |                     |                    |                    | C13    |
| 10942   |        | XA430     | 45  |     | XA420  | 55        |      |      | 16B         | 9    |        | TDI7ADX4 | 01       |        |        | RR4              | E4    |                     |                    |                    |        |
| 10753   |        | XA430     | 46  |     | XA418  | 17        |      |      | 16B         | 9    |        | TDI0ADX4 | 01       |        |        | RR4              | D2    |                     |                    |                    |        |
| 10915   |        | XA430     | 47  |     | XA418  | 23        |      |      | 16B         | 9    |        | TDI6ADX4 | 01       |        |        | RR4              | E3    |                     |                    |                    |        |
| 10888   |        | XA430     | 48  |     | XA418  | 41        |      |      | 16B         | 9    |        | TDI5ADX4 | 01       |        |        | RR4              | E2    |                     |                    |                    |        |
| 00134   |        | XA430     | 49  |     | XA430  | 50        |      |      | 16B         | 9    |        | +5VDCF   | 640      |        |        | RR4              | EP    |                     |                    |                    | B05    |
| 00135   |        | XA430     | 50  |     | XA430  | 59        |      |      | 16B         | 9    |        | +5VDCF   | 645      |        |        | RR4              | EP    |                     |                    |                    | B05    |
| 15404   |        | XA430     | 51  |     | XA418  | 80        |      |      | 16B         | 9    |        | TRQ6ADX4 | 01       |        |        | RR4              | F5    |                     |                    |                    |        |
| 10861   |        | XA430     | 52  |     | XA418  | 37        |      |      | 16B         | 9    |        | TDI4ADX4 | 01       |        |        | RR4              | E1    |                     |                    |                    |        |
| 15388   |        | XA430     | 53  |     | XA418  | 78        |      |      | 16B         | 9    |        | TRQ5ADX4 | 01       |        |        | RR4              | F4    |                     |                    |                    |        |
| 03411   |        | XA430     | 54  |     | XA430  | 64        |      |      | 16B         | 9    |        | G43044   | 02       |        |        | RR4              | EC    |                     |                    |                    | B05    |
| 15372   |        | XA430     | 55  |     | XA420  | 60        |      |      | 16B         | 9    |        | TRQ4ADX4 | 01       |        |        | RR4              | F3    |                     |                    |                    |        |
| 15359   |        | XA430     | 56  |     | XA418  | 43        |      |      | 16B         | 9    |        | TRQ3ADX4 | 01       |        |        | RR4              | F2    |                     |                    |                    |        |
| 03894   |        | XA430     | 57  |     |        |           |      |      |             |      |        | DNW      | 01       |        |        | RR4              |       |                     |                    | KEYWAY             | C04    |
| 03895   |        | XA430     | 58  |     |        |           |      |      |             |      |        | DNW      | 01       |        |        | RR4              |       |                     |                    | KEYWAY             | C04    |
| 00136   |        | XA430     | 59  |     | XA430  | 60        |      |      | 16B         | 9    |        | +5VDCF   | 650      |        |        | RR4              | FP    |                     |                    |                    | B05    |
| 00137   |        | XA430     | 60  |     | XA430  | 80        |      |      | 16B         | 9    |        | +5VDCF   | 655      |        |        | RR4              | FP    |                     |                    |                    | B05    |
| 18756   |        | XA430     | 61  |     |        |           |      |      |             |      |        | XDIRC04  | 03       |        |        | RR4              | G5    |                     |                    |                    |        |
| 15343   |        | XA430     | 62  |     | XA418  | 60        |      |      | 16B         | 9    |        | TRQ2ADX4 | 01       |        |        | RR4              | F1    |                     |                    |                    |        |
| 18342   |        | XA430     | 63  |     |        |           |      |      |             |      |        | XCIRC04  | 03       |        |        | RR4              | G4    |                     |                    |                    |        |
| 03414   |        | XA430     | 64  |     | XA430  | 74        |      |      | 16B         | 9    |        | G43044   | 03       |        |        | RR4              | FC    |                     |                    |                    | B05    |
| 17928   |        | XA430     | 65  |     |        |           |      |      |             |      |        | XBIRC04  | 03       |        |        | RR4              | G3    |                     |                    |                    |        |
| 17514   |        | XA430     | 66  |     |        |           |      |      |             |      |        | XAIRC04  | 03       |        |        | RR4              | G2    |                     |                    |                    |        |
| 02807   |        | XA430     | 67  |     |        |           |      |      |             |      |        | GND      | 01       |        |        | RR4              |       |                     |                    |                    |        |
| 21374   |        | XA430     | 67  |     |        |           |      |      |             |      |        | G43044   | 06       |        |        | RR4              |       |                     |                    |                    | B05    |
| 01484   |        | XA430     | 68  |     |        |           |      |      |             |      |        | DNW      | 01       |        |        | RR4              |       |                     |                    |                    |        |
| 00138   |        | XA430     | 69  |     | XA430  | 70        |      |      | 16B         | 9    |        | +05RES   | 660      |        |        | RR4              | GP    |                     |                    |                    |        |
| 00139   |        | XA430     | 70  |     | XA430  | 79        |      |      | 16B         | 9    |        | +05RES   | 665      |        |        | RR4              | GP    |                     |                    |                    |        |
| 20208   |        | XA430     | 71  |     | XA425  | 48        |      |      | 16B         | 9    |        | YPRFCB4  | 02       |        |        | RR4              | H5    |                     |                    |                    | E02    |
| 15420   |        | XA430     | 72  |     | XA432  | 70        |      |      | 16B         | 9    |        | XHIRC04  | 02       |        |        | RR4              | G1    |                     |                    |                    | B05    |
| 20202   |        | XA430     | 73  |     |        |           |      |      |             |      |        | SPR      | 01       |        |        | RR4              | H4    |                     |                    |                    |        |
| 03415   |        | XA430     | 74  |     | XA430  | 77        |      |      | 16B         | 9    |        | G43044   | 04       |        |        | RR4              | GC    |                     |                    |                    | B05    |
| 19501   |        | XA430     | 75  |     | XA432  | 68        |      |      | 16B         | 9    |        | XGIRC04  | 01       |        |        | RR4              | H3    |                     |                    |                    |        |
| 19498   |        | XA430     | 76  |     |        |           |      |      |             |      |        | XFIRC04  | 03       |        |        | RR4              | H2    |                     |                    |                    |        |
| 03417   |        | XA430     | 77  |     | XA430  | 67        |      |      | 16B         | 9    |        | G43044   | 05       |        |        | RR4              | HC    |                     |                    |                    | B05    |
| 19168   |        | XA430     | 78  |     | XA432  | 64        |      |      | 16B         | 9    |        | XEIRC04  | 01       |        |        | RR4              | H1    |                     |                    |                    |        |
| 00140   |        | XA430     | 79  |     | XA430  | 80        |      |      | 16B         | 9    |        | +05RES   | 670      |        |        | RR4              | HP    |                     |                    |                    |        |
| 00141   |        | XA430     | 80  |     | XA107  | 68        |      | PE   | 1ED         | 9    |        | +05RES   | 675      |        |        | RR4              | HP    |                     |                    |                    | C13    |
| 19974   |        | XA431     | 01  |     |        |           |      |      |             |      |        | XMRISA   | 02       | XMRISA | 00     | 1                | TQ2   | A2                  |                    | 02B                |        |
| 02808   |        | XA431     | 02  |     |        |           |      |      |             |      |        | GND      | 01       |        |        |                  | TQ2   |                     |                    | 01A                |        |
| 18344   |        | XA431     | 03  |     |        |           |      |      |             |      |        | XCIRC0   | 02       | XMR2SA | 01     | 1                | TQ2   | A3                  |                    | 02A                |        |
| 17930   |        | XA431     | 04  |     |        |           |      |      |             |      |        | XBIRC0   | 02       | XMRISA | 01     | 1                | TQ2   | A2                  |                    | 04A                |        |
| 20009   |        | XA431     | 05  |     | XA431  | 07        |      |      | 16B         | 9    |        | XS00A0   | 02       | XMRISA | 01     | 2                | TQ2   | A2                  |                    | 03B                |        |
| 19904   |        | XA431     | 06  |     | XA438  | 42        |      |      | 16B         | 9    |        | XMROSA   | 01       | XMROSA | 00     | 1                | TQ2   | A1                  |                    | 05A                |        |
| 20010   |        | XA431     | 07  |     | XA431  | 13        |      |      | 16B         | 9    |        | XS00A0   | 03       | XMR2SA | 01     | 2                | TQ2   | A3                  |                    | 03A                |        |
| 17516   |        | XA431     | 08  |     |        |           |      |      |             |      |        | XAIRC0   | 02       | XMROSA | 01     | 1                | TQ2   | A1                  |                    | 06A                |        |
| CONNECTOR (XA431) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |      |      |             |      |        |          |          |        |        |                  |       |                     |                    |                    |        |

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| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE   |             |      |        | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OF POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|--------|-------------|------|--------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE | COL OR |        |        |          |             |                  |       |                     |                    |                    |        |
| 19977   |        | XA431     | 09  |        | XA438     | 37  |        |             | 16B  | 9      |        | XMR2SA | 01       | XMR2SA      | 00               | 1     | TQ2                 | A3                 |                    | 04B    |
| 20008   |        | XA431     | 10  |        | XA431     | 05  |        |             | 16B  | 9      |        | XSO0A0 | 01       | XMR0SA      | 01               | 2     | TQ2                 | A1                 |                    | 07A    |
| 18758   |        | XA431     | 11  |        |           |     |        |             |      |        |        | XDIRCO | 02       | XMR3SA      | 01               | 1     | TQ2                 | A4                 |                    | 05B    |
| 00616   |        | XA431     | 12  |        |           |     |        |             |      |        |        | +5V    | 01       |             |                  |       | TQ2                 |                    |                    |        |
| 20011   |        | XA431     | 13  |        | XA431     | 19  |        |             | 16B  | 9      |        | XSO0A0 | 04       | XMR3SA      | 01               | 2     | TQ2                 | A4                 |                    | 06B    |
| 19990   |        | XA431     | 14  |        | XA438     | 43  |        |             | 16B  | 9      |        | XMR5SA | 01       | XMR5SA      | 00               | 1     | TQ2                 | B2                 |                    | 09A    |
| 19981   |        | XA431     | 15  |        | XA438     | 36  |        |             | 16B  | 9      |        | XMR3SA | 01       | XMR3SA      | 00               | 1     | TQ2                 | A4                 |                    | 07B    |
| 02809   |        | XA431     | 16  |        |           |     |        |             |      |        |        | GND    | 01       |             |                  |       | TQ2                 |                    |                    | 01B    |
| 19505   |        | XA431     | 17  |        |           |     |        |             |      |        |        | XGIRCO | 02       | XMR6SA      | 01               | 1     | TQ2                 | B3                 |                    | 08B    |
| 19500   |        | XA431     | 18  |        |           |     |        |             |      |        |        | XFIRCO | 02       | XMR5SA      | 01               | 1     | TQ2                 | B2                 |                    | 10A    |
| 20012   |        | XA431     | 19  |        | XA431     | 20  |        |             | 16B  | 9      |        | XSO0A0 | 05       | XMR6SA      | 01               | 2     | TQ2                 | B3                 |                    | 09B    |
| 20013   |        | XA431     | 20  |        | XA431     | 26  |        |             | 16B  | 9      |        | XSO0A0 | 06       | XMR5SA      | 01               | 2     | TQ2                 | B2                 |                    | 11A    |
| 19995   |        | XA431     | 21  |        | XA438     | 49  |        |             | 16B  | 9      |        | XMR6SA | 01       | XMR6SA      | 00               | 1     | TQ2                 | B3                 |                    | 10B    |
| 19986   |        | XA431     | 22  |        | XA438     | 50  |        |             | 16B  | 9      |        | XMR4SA | 01       | XMR4SA      | 00               | 1     | TQ2                 | B1                 |                    | 12A    |
| 19509   |        | XA431     | 23  |        | XA406     | 49  |        |             | 16B  | 9      |        | XHIRCO | 01       | XMR7SA      | 01               | 1     | TQ2                 | B4                 |                    | 11B    |
| 19172   |        | XA431     | 24  |        |           |     |        |             |      |        |        | XEIRCO | 02       | XMR4SA      | 01               | 1     | TQ2                 | B1                 |                    | 13A    |
| 20015   |        | XA431     | 25  |        | XA406     | 46  |        |             | 16B  | 9      |        | XSO0A0 | 08       | XMR7SA      | 01               | 2     | TQ2                 | B4                 |                    | 12B    |
| 20014   |        | XA431     | 26  |        | XA431     | 25  |        |             | 16B  | 9      |        | XSO0A0 | 07       | XMR4SA      | 01               | 2     | TQ2                 | B1                 |                    | 14A    |
| 20000   |        | XA431     | 27  |        | XA438     | 56  |        |             | 16B  | 9      |        | XMR7SA | 01       | XMR7SA      | 00               | 1     | TQ2                 | B4                 |                    | 13B    |
| 00617   |        | XA431     | 28  |        |           |     |        |             |      |        |        | +5V    | 01       |             |                  |       | TQ2                 |                    |                    |        |
| 19935   |        | XA431     | 29  |        | XA438     | 39  |        |             | 16B  | 9      |        | XMR02S | 01       | XMR02R      | 01               | 1     | TQ2                 | C3                 |                    | 14B    |
| 19922   |        | XA431     | 30  |        | XA432     | 18  |        |             | 16B  | 9      |        | XMR01R | 06       | XMR01R      | 00               | 1     | TQ2                 | C2                 |                    | 15A    |
| 15244   |        | XA431     | 31  |        | XA415     | 15  |        |             | 16B  | 9      |        | TRCR2A | 08       | XMR02R      | 01               | 2     | TQ2                 | C3                 |                    | 15B    |
| 02810   |        | XA431     | 32  |        |           |     |        |             |      |        |        | GND    | 01       |             |                  |       | TQ2                 |                    |                    | 20B    |
| 19932   |        | XA431     | 33  |        | XA432     | 19  |        |             | 16B  | 9      |        | XMR02R | 05       | XMR02R      | 00               | 1     | TQ2                 | C3                 |                    | 16B    |
| 19926   |        | XA431     | 34  |        | XA438     | 33  |        |             | 16B  | 9      |        | XMR01S | 02       | XMR01R      | 01               | 1     | TQ2                 | C2                 |                    | 16A    |
| 19944   |        | XA431     | 35  |        | XA438     | 30  |        |             | 16B  | 9      |        | XMR03S | 01       | XMR03R      | 01               | 1     | TQ2                 | C4                 |                    | 17B    |
| 15242   |        | XA431     | 36  |        | XA431     | 37  |        |             | 16B  | 9      |        | TRCR2A | 06       | XMR01R      | 01               | 2     | TQ2                 | C2                 |                    | 17A    |
| 15243   |        | XA431     | 37  |        | XA431     | 31  |        |             | 16B  | 9      |        | TRCR2A | 07       | XMR03R      | 01               | 2     | TQ2                 | C4                 |                    | 18B    |
| 19910   |        | XA431     | 38  |        | XA438     | 40  |        |             | 16B  | 9      |        | XMR00R | 05       | XMR00R      | 00               | 1     | TQ2                 | C1                 |                    | 18A    |
| 19941   |        | XA431     | 39  |        | XA432     | 49  |        |             | 16B  | 9      |        | XMR03R | 04       | XMR03R      | 00               | 1     | TQ2                 | C4                 |                    | 19B    |
| 19915   |        | XA431     | 40  |        | XA438     | 38  |        |             | 16B  | 9      |        | XMR00S | 01       | XMR00R      | 01               | 1     | TQ2                 | C1                 |                    | 19A    |
| 19966   |        | XA431     | 41  |        | XA438     | 51  |        |             | 16B  | 9      |        | XMR06S | 02       | XMR06R      | 01               | 1     | TQ2                 | D3                 |                    | 22B    |
| 15241   |        | XA431     | 42  |        | XA431     | 36  |        |             | 16B  | 9      |        | TRCR2A | 05       | XMR00R      | 01               | 2     | TQ2                 | C1                 |                    | 20A    |
| 15240   |        | XA431     | 43  |        | XA431     | 42  |        |             | 16B  | 9      |        | TRCR2A | 04       | XMR06R      | 01               | 2     | TQ2                 | D3                 |                    | 23B    |
| 02811   |        | XA431     | 44  |        |           |     |        |             |      |        |        | GND    | 01       |             |                  |       | TQ2                 |                    |                    | 21B    |
| 19963   |        | XA431     | 45  |        | XA432     | 10  |        |             | 16B  | 9      |        | XMR06R | 02       | XMR06R      | 00               | 1     | TQ2                 | D3                 |                    | 24B    |
| 19957   |        | XA431     | 46  |        | XA438     | 41  |        |             | 16B  | 9      |        | XMR05R | 03       | XMR05R      | 00               | 1     | TQ2                 | D2                 |                    | 21A    |
| 19971   |        | XA431     | 47  |        | XA438     | 52  |        |             | 16B  | 9      |        | XMR07S | 02       | XMR07R      | 01               | 1     | TQ2                 | D4                 |                    | 25B    |
| 19959   |        | XA431     | 48  |        | XA432     | 38  |        |             | 16B  | 9      |        | XMR05S | 01       | XMR05R      | 01               | 1     | TQ2                 | D2                 |                    | 22A    |
| 15239   |        | XA431     | 49  |        | XA431     | 43  |        |             | 16B  | 9      |        | TRCR2A | 03       | XMR07R      | 01               | 2     | TQ2                 | D4                 |                    | 26B    |
| 15238   |        | XA431     | 50  |        | XA431     | 49  |        |             | 16B  | 9      |        | TRCR2A | 02       | XMR05R      | 01               | 2     | TQ2                 | D2                 |                    | 23A    |
| 19969   |        | XA431     | 51  |        |           |     |        |             |      |        |        | XMR07R | 02       | XMR07R      | 00               | 1     | TQ2                 | D4                 |                    | 27B    |
| 19948   |        | XA431     | 52  |        | XA432     | 37  |        |             | 16B  | 9      |        | XMR04R | 02       | XMR04R      | 00               | 1     | TQ2                 | D1                 |                    | 24A    |
| 15816   |        | XA431     | 53  |        |           |     |        |             |      |        |        | TS02A0 | 10       | TRDA1A      | 01               | 1     | TQ2                 | E3                 |                    | 28B    |
| 19952   |        | XA431     | 54  |        | XA432     | 50  |        |             | 16B  | 9      |        | XMR04S | 01       | XMR04R      | 01               | 1     | TQ2                 | D1                 |                    | 25A    |
| 10784   |        | XA431     | 55  |        | XA425     | 09  |        |             | 16B  | 9      |        | TD11A0 | 02       | TRDA1A      | 01               | 2     | TQ2                 | E3                 |                    | 29B    |
| 15237   |        | XA431     | 56  |        | XA431     | 50  |        |             | 16B  | 9      |        | TRCR2A | 01       | XMR04R      | 01               | 2     | TQ2                 | D1                 |                    | 26A    |
| 15269   |        | XA431     | 57  |        |           |     |        |             |      |        |        | TRDA1A | 02       | TRDA1A      | 00               | 1     | TQ2                 | E3                 |                    | 30B    |
| 02812   |        | XA431     | 58  |        |           |     |        |             |      |        |        | GND    | 01       |             |                  |       | TQ2                 |                    |                    | 27A    |
| CONNECTOR XA431 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |        |             |      |        |        |        |          |             |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA431  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 316

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | LEN    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|-------------|------|-------|-------|--------|---------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |        |        |                  |       |                     |                    |                    |                  |
| 10811         |        | XA431     | 59                              |        | XA424     | 11  |             |      | 16B   | 9     |        | TDI2A0  | 02       | TRDA2A | 01     | 1                | TQ2   | E4                  |                    | 31B                |                  |
| 15266         |        | XA431     | 60                              |        | XA435     | 06  |             |      | 16B   | 9     |        | TRDA0A  | 01       | TRDA0A | 00     | 1                | TQ2   | E2                  |                    | 28A                | REQ, DEVICE 0    |
| 15815         |        | XA431     | 61                              |        | XA431     | 53  |             |      | 16B   | 9     |        | TS02A0  | 09       | TRDA2A | 01     | 2                | TQ2   | E4                  |                    | 32B                |                  |
| 10757         |        | XA431     | 62                              |        | XA425     | 11  |             |      | 16B   | 9     |        | TDIOA0  | 02       | TRDA0A | 01     | 1                | TQ2   | E2                  |                    | 29A                |                  |
| 15270         |        | XA431     | 63                              |        | XA434     | 01  |             |      | 16B   | 9     |        | TRDA2A  | 01       | TRDA2A | 00     | 1                | TQ2   | E4                  |                    | 33B                | REQ, DEVICE 2    |
| 15813         |        | XA431     | 64                              |        | XA431     | 65  |             |      | 16B   | 9     |        | TS02A0  | 07       | TRDA0A | 01     | 2                | TQ2   | E2                  |                    | 30A                |                  |
| 15814         |        | XA431     | 65                              |        | XA431     | 61  |             |      | 16B   | 9     |        | TS02A0  | 08       | TRDA5A | 01     | 1                | TQ2   | F3                  |                    | 34B                |                  |
| 15213         |        | XA431     | 66                              |        | XA436     | 29  |             |      | 16B   | 9     |        | TRBM7A  | 01       | TRBM7A | 00     | 1                | TQ2   | E1                  |                    | 31A                | SET REQ BURST MD |
| 02813         |        | XA431     | 67                              |        |           |     |             |      |       |       |        | GND     | 01       |        |        |                  | TQ2   |                     |                    | 40A                |                  |
| 10029         |        | XA431     | 68                              |        | XA443     | 34  |             |      | 16B   | 9     |        | TCST7A0 | 03       | TRBM7A | 01     | 1                | TQ2   | E1                  |                    | 32A                |                  |
| 15277         |        | XA431     | 69                              |        |           |     |             |      |       |       |        | TRDA5A  | 02       | TRDA5A | 00     | 1                | TQ2   | F3                  |                    | 35A                | REQ, DEVICE 5    |
| 15716         |        | XA431     | 70                              |        | XA446     | 66  |             |      | 16B   | 9     |        | TSOBR0  | 08       | TRBM7A | 01     | 2                | TQ2   | E1                  |                    | 33A                |                  |
| 10864         |        | XA431     | 71                              |        | XA424     | 35  |             |      | 16B   | 9     |        | TDI4A0  | 01       | TRDA4A | 01     | 1                | TQ2   | F2                  |                    | 36A                |                  |
| 15274         |        | XA431     | 72                              |        | XA435     | 18  |             |      | 16B   | 9     |        | TRDA4A  | 01       | TRDA4A | 00     | 1                | TQ2   | F2                  |                    | 34A                | REQ, DEVICE 4    |
| 15810         |        | XA431     | 73                              |        | XA431     | 77  |             |      | 16B   | 9     |        | TS02A0  | 04       | TRDA4A | 01     | 2                | TQ2   | F2                  |                    | 36B                |                  |
| 10891         |        | XA431     | 74                              |        | XA424     | 47  |             |      | 16B   | 9     |        | TDI5A0  | 01       | TRDA5A | 01     | 2                | TQ2   | F3                  |                    | 35B                |                  |
| 15273         |        | XA431     | 75                              |        |           |     |             |      |       |       |        | TRDA3A  | 02       | TRDA3A | 00     | 1                | TQ2   | F1                  |                    | 37B                | REQ, DEVICE 3    |
| 15812         |        | XA431     | 76                              |        | XA431     | 64  |             |      | 16B   | 9     |        | TS02A0  | 06       | TRDA6A | 01     | 1                | TQ2   | F4                  |                    | 37A                |                  |
| 15811         |        | XA431     | 77                              |        | XA431     | 76  |             |      | 16B   | 9     |        | TS02A0  | 05       | TRDA3A | 01     | 1                | TQ2   | F1                  |                    | 38B                |                  |
| 10919         |        | XA431     | 78                              |        | XA406     | 74  |             |      | 16B   | 9     |        | TDI6A0  | 02       | TRDA6A | 01     | 2                | TQ2   | F4                  |                    | 38A                |                  |
| 10837         |        | XA431     | 79                              |        | XA424     | 23  |             |      | 16B   | 9     |        | TDI3A0  | 01       | TRDA3A | 01     | 2                | TQ2   | F1                  |                    | 39B                |                  |
| 15278         |        | XA431     | 80                              |        | XA435     | 30  |             |      | 16B   | 9     |        | TRDA6A  | 01       | TRDA6A | 00     | 1                | TQ2   | F4                  |                    | 39A                | REQ, DEVICE 6    |
| 19906         |        | XA432     | 01                              |        | XA432     | 14  |             |      | 16B   | 9     |        | XMR00R  | 01       | XMR7WA | 01     | 1                | TS8   | A1                  |                    | 02B                |                  |
| 02814         |        | XA432     | 02                              |        |           |     |             |      |       |       |        | GND     | 01       |        |        |                  | TS8   |                     |                    | 01A                |                  |
| 01485         |        | XA432     | 03                              |        |           |     |             |      |       |       |        | DNW     | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 19924         |        | XA432     | 04                              |        |           |     |             |      |       |       |        | XMR01R  | 08       | XMR7WA | 01     | 2                | TS8   | A1                  |                    | 04A                |                  |
| 19934         |        | XA432     | 05                              |        |           |     |             |      |       |       |        | XMR02R  | 07       | XMR7WA | 01     | 3                | TS8   | A1                  |                    | 03B                |                  |
| 19938         |        | XA432     | 06                              |        | XA432     | 20  |             |      | 16B   | 9     |        | XMR03R  | 01       | XMR7WA | 01     | 4                | TS8   | A1                  |                    | 05A                |                  |
| 19951         |        | XA432     | 07                              |        |           |     |             |      |       |       |        | XMR04R  | 05       | XMR7WA | 01     | 5                | TS8   | A1                  |                    | 03A                |                  |
| 19955         |        | XA432     | 08                              |        | XA432     | 24  |             |      | 16B   | 9     |        | XMR05R  | 01       | XMR7WA | 01     | 6                | TS8   | A1                  |                    | 06A                |                  |
| 01486         |        | XA432     | 09                              |        |           |     |             |      |       |       |        | DNW     | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 19964         |        | XA432     | 10                              |        |           |     |             |      |       |       |        | XMR06R  | 03       | XMR7WA | 01     | 7                | TS8   | A1                  |                    | 07A                |                  |
| 20005         |        | XA432     | 11                              |        |           |     |             |      |       |       |        | XMR7WA  | 04       | XMR7WA | 00     | 1                | TS8   | A1                  |                    | 05B                |                  |
| 00618         |        | XA432     | 12                              |        |           |     |             |      |       |       |        | +5V     | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 19970         |        | XA432     | 13                              |        | XA431     | 47  |             |      | 16B   | 9     |        | XMR07S  | 01       | XMR7WA | 01     | 8                | TS8   | A1                  |                    | 06B                |                  |
| 19907         |        | XA432     | 14                              |        | XA432     | 30  |             |      | 16B   | 9     |        | XMR00R  | 02       | XMR6WA | 01     | 1                | TS8   | B1                  |                    | 09A                |                  |
| 01487         |        | XA432     | 15                              |        |           |     |             |      |       |       |        | DNW     | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 02815         |        | XA432     | 16                              |        |           |     |             |      |       |       |        | GND     | 01       |        |        |                  | TS8   |                     |                    | 21B                |                  |
| 01488         |        | XA432     | 17                              |        |           |     |             |      |       |       |        | DNW     | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 19923         |        | XA432     | 18                              |        | XA432     | 04  |             |      | 16B   | 9     |        | XMR01R  | 07       | XMR6WA | 01     | 2                | TS8   | B1                  |                    | 10A                |                  |
| 19933         |        | XA432     | 19                              |        | XA432     | 05  |             |      | 16B   | 9     |        | XMR02R  | 06       | XMR6WA | 01     | 3                | TS8   | B1                  |                    | 09B                |                  |
| 19939         |        | XA432     | 20                              |        | XA432     | 36  |             |      | 16B   | 9     |        | XMR03R  | 02       | XMR6WA | 01     | 4                | TS8   | B1                  |                    | 11A                |                  |
| 01489         |        | XA432     | 21                              |        |           |     |             |      |       |       |        | DNW     | 01       |        |        |                  | TS8   |                     |                    |                    |                  |
| 19950         |        | XA432     | 22                              |        | XA432     | 07  |             |      | 16B   | 9     |        | XMR04R  | 04       | XMR6WA | 01     | 5                | TS8   | B1                  |                    | 12A                |                  |
| 19999         |        | XA432     | 23                              |        |           |     |             |      |       |       |        | XMR6WA  | 03       | XMR6WA | 00     | 1                | TS8   | B1                  |                    | 11B                |                  |
| 19956         |        | XA432     | 24                              |        | XA431     | 46  |             |      | 16B   | 9     |        | XMR05R  | 02       | XMR6WA | 01     | 6                | TS8   | B1                  |                    | 13A                |                  |
| 19965         |        | XA432     | 25                              |        | XA431     | 41  |             |      | 16B   | 9     |        | XMR06S  | 01       | XMR6WA | 01     | 7                | TS8   | B1                  |                    | 12B                |                  |
| 05981         |        | XA432     | 26                              |        | XAL21     | 39  |             |      | 16B   | 9     |        | SPI036  | 35       | XMR6WA | 01     | 8                | TS8   | B1                  |                    | 14A                |                  |
| CONNECTOR     |        | XA432     | CONTINUED ON THE NEXT PAGE **** |        |           |     |             |      |       |       |        |         |          |        |        |                  |       |                     |                    |                    |                  |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA432  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 317

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SEC TEST WIRE | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHW TYPE | GROUP | LOAD CAP POLE PLAN | TEST POINTS WNC OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|---------------|---------|--------|----------|------|--------|-----------------|-------|--------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR |               |         |        |          |      |        |                 |       |                    |                    |                    |        |
| 01490   |        | XA432     | 27  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 00619   |        | XA432     | 28  |        |           |     |       |             |      |       |               | +5V     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 01491   |        | XA432     | 29  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 19908   |        | XA432     | 30  |        | XA432     | 43  |       |             | 16B  | 9     |               | XMR00R  | 03     | XMR5WA   | 01 1 | TS8    | C1              |       | 15A                |                    |                    |        |
| 19921   |        | XA432     | 31  |        | XA431     | 30  |       |             | 16B  | 9     |               | XMR01R  | 05     | XMR5WA   | 01 2 | TS8    | C1              |       | 15B                |                    |                    |        |
| 02816   |        | XA432     | 32  |        |           |     |       |             |      |       |               | GND     | 01     |          |      | TS8    |                 |       | 27A                |                    |                    |        |
| 01492   |        | XA432     | 33  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 19931   |        | XA432     | 34  |        | XA431     | 33  |       |             | 16B  | 9     |               | XMR02R  | 04     | XMR5WA   | 01 3 | TS8    | C1              |       | 16A                |                    |                    |        |
| 19994   |        | XA432     | 35  |        |           |     |       |             |      |       |               | XMR5WA  | 03     | XMR5WA   | 00 1 | TS8    | C1              |       | 17B                |                    |                    |        |
| 19940   |        | XA432     | 36  |        | XA431     | 39  |       |             | 16B  | 9     |               | XMR03R  | 03     | XMR5WA   | 01 4 | TS8    | C1              |       | 17A                |                    |                    |        |
| 19949   |        | XA432     | 37  |        | XA432     | 22  |       |             | 16B  | 9     |               | XMR04R  | 03     | XMR5WA   | 01 5 | TS8    | C1              |       | 18B                |                    |                    |        |
| 19960   |        | XA432     | 38  |        | XA438     | 45  |       |             | 16B  | 9     |               | XMR05S  | 02     | XMR5WA   | 01 6 | TS8    | C1              |       | 18A                |                    |                    |        |
| 01493   |        | XA432     | 39  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 05534   |        | XA432     | 40  |        | XA432     | 56  |       |             | 16B  | 9     |               | SPI035  | 18     | XMR5WA   | 01 7 | TS8    | C1              |       | 19A                |                    |                    |        |
| 01494   |        | XA432     | 41  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 05954   |        | XA432     | 42  |        | XA433     | 40  |       |             | 16B  | 9     |               | SPI036  | 08     | XMR5WA   | 01 8 | TS8    | C1              |       | 20A                |                    |                    |        |
| 19909   |        | XA432     | 43  |        | XA431     | 38  |       |             | 16B  | 9     |               | XMR03R  | 04     | XMR4WA   | 01 1 | TS8    | D1              |       | 23B                |                    |                    |        |
| 02817   |        | XA432     | 44  |        |           |     |       |             |      |       |               | GND     | 01     |          |      | TS8    |                 |       | 40A                |                    |                    |        |
| 01495   |        | XA432     | 45  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 19920   |        | XA432     | 46  |        | XA432     | 31  |       |             | 16B  | 9     |               | XMR01R  | 04     | XMR4WA   | 01 2 | TS8    | D1              |       | 21A                |                    |                    |        |
| 19989   |        | XA432     | 47  |        |           |     |       |             |      |       |               | XMR4WA  | 02     | XMR4WA   | 00 1 | TS8    | D1              |       | 25B                |                    |                    |        |
| 19930   |        | XA432     | 48  |        | XA432     | 34  |       |             | 16B  | 9     |               | XMR02R  | 03     | XMR4WA   | 01 3 | TS8    | D1              |       | 22A                |                    |                    |        |
| 19942   |        | XA432     | 49  |        | XA438     | 34  |       |             | 16B  | 9     |               | XMR03R  | 05     | XMR4WA   | 01 4 | TS8    | D1              |       | 26B                |                    |                    |        |
| 19953   |        | XA432     | 50  |        | XA438     | 46  |       |             | 16B  | 9     |               | XMR04S  | 02     | XMR4WA   | 01 5 | TS8    | D1              |       | 23A                |                    |                    |        |
| 01496   |        | XA432     | 51  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 05691   |        | XA432     | 52  |        | XA432     | 79  |       |             | 16B  | 9     |               | SPI028  | 16     | XMR4WA   | 01 6 | TS8    | D1              |       | 24A                |                    |                    |        |
| 01497   |        | XA432     | 53  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 05953   |        | XA432     | 54  |        | XA432     | 42  |       |             | 16B  | 9     |               | SPI036  | 07     | XMR4WA   | 01 7 | TS8    | D1              |       | 25A                |                    |                    |        |
| 17513   |        | XA432     | 55  |        | XA430     | 66  |       |             | 16B  | 9     |               | XAIRCD4 | 02     | TRQ0A0   | 01 1 | TS8    | E1              |       | 29B                |                    | REQUEST 0 104      |        |
| 05935   |        | XA432     | 56  |        | XA433     | 56  |       |             | 16B  | 9     |               | SPI035  | 19     | XMR4WA   | 01 8 | TS8    | D1              |       | 26A                |                    |                    |        |
| 01498   |        | XA432     | 57  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 02818   |        | XA432     | 58  |        |           |     |       |             |      |       |               | GND     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 15321   |        | XA432     | 59  |        |           |     |       |             |      |       |               | TRQ0A0  | 02     | TRQ0A0   | 00 1 | TS8    | E1              |       | 31B                |                    | REQ 0              |        |
| 17927   |        | XA432     | 60  |        | XA430     | 65  |       |             | 16B  | 9     |               | XBIRCD4 | 02     | TRQ0A0   | 01 2 | TS8    | E1              |       | 28A                |                    |                    |        |
| 18341   |        | XA432     | 61  |        | XA430     | 63  |       |             | 16B  | 9     |               | XCIRCD4 | 02     | TRQ0A0   | 01 3 | TS8    | E1              |       | 32B                |                    |                    |        |
| 18755   |        | XA432     | 62  |        | XA430     | 61  |       |             | 16B  | 9     |               | XDIFCD4 | 02     | TRQ0A0   | 01 4 | TS8    | E1              |       | 29A                |                    |                    |        |
| 01499   |        | XA432     | 63  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 19169   |        | XA432     | 64  |        | XA439     | 74  |       |             | 16B  | 9     |               | XEIRCD4 | 02     | TRQ0A0   | 01 5 | TS8    | E1              |       | 30A                |                    |                    |        |
| 01500   |        | XA432     | 65  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 19497   |        | XA432     | 66  |        | XA430     | 76  |       |             | 16B  | 9     |               | XFIRCD4 | 02     | TRQ0A0   | 01 6 | TS8    | E1              |       | 31A                |                    |                    |        |
| 02819   |        | XA432     | 67  |        |           |     |       |             |      |       |               | GND     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 19502   |        | XA432     | 68  |        | XA439     | 75  |       |             | 16B  | 9     |               | XGIRCD4 | 02     | TRQ0A0   | 01 7 | TS8    | E1              |       | 32A                |                    |                    |        |
| 01501   |        | XA432     | 69  |        |           |     |       |             |      |       |               | DNW     | 01     |          |      | TS8    |                 |       |                    |                    |                    |        |
| 19508   |        | XA432     | 70  |        |           |     |       |             |      |       |               | XHIRCD4 | 03     | TRQ0A0   | 01 8 | TS8    | E1              |       | 33A                |                    |                    |        |
| 13305   |        | XA432     | 71  |        |           |     |       |             |      |       |               | TIL0BR  | 03     | TIL0BS   | 01 1 | TS8    | F1              |       | 36A                |                    |                    |        |
| 13301   |        | XA432     | 72  |        | XA142     | 14  |       |             | 16B  | 9     |               | TILPEA  | 01     | TIL0BS   | 01 2 | TS8    | F1              |       | 34A                |                    |                    |        |
| 05539   |        | XA432     | 73  |        |           |     |       |             |      |       |               | TFI0RA  | 03     | TIL0BS   | 01 3 | TS8    | F1              |       | 36B                |                    |                    | C11    |
| 05550   |        | XA432     | 74  |        | XA433     | 68  |       |             | 16B  | 9     |               | SPI036  | 04     | TIL0BS   | 01 4 | TS8    | F1              |       | 35B                |                    |                    |        |
| 14163   |        | XA432     | 75  |        |           |     |       |             |      |       |               | IMPWAA  | 02     | TIL0BS   | 01 5 | TS8    | F1              |       | 37B                |                    |                    |        |
| 13306   |        | XA432     | 76  |        | XA145     | 72  |       |             | 16B  | 9     |               | TIL0BS  | 01     | TIL0BS   | 00 1 | TS8    | F1              |       | 37A                |                    | I/C STATE INHIBI   |        |
| CONNECTOR XA432 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |               |         |        |          |      |        |                 |       |                    |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA432  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 318

| RECORD NUMBER                                   | FROM   |           |     |     | TO     |           |     |     | WIRE       |      |       |       | SIGNAL  | SFG NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO            |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|------------|------|-------|-------|---------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|-------------------|
|   | PREFIX | CONNECTOR | PIN | QTY | PREFIX | CONNECTOR | PIN | QTY | WIRE GROUP | CODE | COLOR | IDENT |         |        |          |             |                  |       |                     |                    |                    |                   |
| 10973   |        | XA432     | 77  |     | XA108  | 04        |     |     | 18B        | 9    |       |       | TDLISA  | 01     | TIL0BS   | 01          | 6                | TS8   | F1                  |                    | 38B                | B01               |
| 04335   |        | XA432     | 78  |     | XA446  | 48        |     |     | 16B        | 9    |       |       | KSWB1R  | 01     | TIL0BS   | 01          | 7                | TS8   | F1                  |                    | 38A                |                   |
| 05692   |        | XA432     | 79  |     | XA425  | 78        |     |     | 16B        | 9    |       |       | SPI028  | 17     | TIL0BS   | 01          | 8                | TS8   | F1                  |                    | 39B                |                   |
| 01502   |        | XA432     | 80  |     |        |           |     |     |            |      |       |       | DNW     | 01     |          |             |                  |       |                     |                    |                    |                   |
| 14902   |        | XA433     | 01  |     | XA414  | 43        |     |     | 16B        | 9    |       |       | TPUSAA  | 02     | TSSGCN   | 01          | 1                | TDD   | BN                  |                    | 02B                |                   |
| 02820   |        | XA433     | 02  |     |        |           |     |     |            |      |       |       | GND     | 01     |          |             |                  |       |                     |                    | 01B                |                   |
| 05687   |        | XA433     | 03  |     | XA433  | 22        |     |     | 16B        | 9    |       |       | SPI028  | 12     | TSSGCQ   | 01          | 1                | TDD   | BQ                  |                    | 02A                |                   |
| 14270   |        | XA433     | 04  |     | XA414  | 41        |     |     | 16B        | 9    |       |       | TFI05A  | 06     | TSSGCP   | 01          | 1                | TDD   | BP                  |                    | 04A                | B05               |
| 15647   |        | XA433     | 05  |     |        |           |     |     |            |      |       |       | TSSGBQ  | 04     | TSSGCI   | 01          | 1                | TDD   | BI                  |                    | 03B                |                   |
| 14319   |        | XA433     | 06  |     | XA310  | 10        |     |     | 16B        | 9    |       |       | TMR77A  | 01     | TBSTOP   | 01          | 1                | TDD   | AP                  |                    | 05A                |                   |
| 15653   |        | XA433     | 07  |     | XA445  | 29        |     |     | 16B        | 9    |       |       | TSSGCQ  | 04     | TSSGCQ   | 00          | 1                | TDD   | BQ                  |                    | 03A                | MSB START CONTROL |
| 05979   |        | XA433     | 08  |     | XA432  | 26        |     |     | 16B        | 9    |       |       | SPI036  | 33     | TBSTOP   | 01          | 1                | TDD   | AI                  |                    | 06A                | C09               |
| 15649   |        | XA433     | 09  |     |        |           |     |     |            |      |       |       | TSSGCP  | 02     | TSSGCP   | 00          | 1                | TDD   | BP                  |                    | 04B                |                   |
| 04339   |        | XA433     | 10  |     | XA302  | 29        |     |     | 16B        | 9    |       |       | KSWB1R  | 05     | TBSTOP   | 01          | 1                | TDD   | AN                  |                    | 07A                |                   |
| 09156   |        | XA433     | 11  |     |        |           |     |     |            |      |       |       | TBSTOP  | 02     | TBSTOP   | 00          | 1                | TDD   | AP                  |                    | 05B                | BOOTSTRAP SWITCH  |
| 00620   |        | XA433     | 12  |     |        |           |     |     |            |      |       |       | +5V     | 01     |          |             |                  |       |                     |                    |                    |                   |
| 09158   |        | XA433     | 13  |     |        |           |     |     |            |      |       |       | TBSTOP  | 02     | TBSTOP   | 00          | 1                | TDD   | AQ                  |                    | 06B                | BOOTSTRAP SWITCH  |
| 05035   |        | XA433     | 14  |     | XA330  | 18        |     |     | 16B        | 9    |       |       | SPI006  | 12     |          | 01          | 1                | TDD   | DN                  |                    | 09A                |                   |
| 05931   |        | XA433     | 15  |     | XA433  | 42        |     |     | 16B        | 9    |       |       | SPI035  | 15     | TBSTOP   | 01          | 1                | TDD   | AQ                  |                    | 07B                | C09               |
| 02821   |        | XA433     | 16  |     |        |           |     |     |            |      |       |       | GND     | 01     |          |             |                  |       |                     |                    | 20B                |                   |
| 05058   |        | XA433     | 17  |     | XA433  | 29        |     |     | 16B        | 9    |       |       | SPI008  | 06     |          | 01          | 1                | TDD   | DQ                  |                    | 08B                |                   |
| 05011   |        | XA433     | 18  |     | XA433  | 34        |     |     | 16B        | 9    |       |       | SPI005  | 08     |          | 01          | 1                | TDD   | DI                  |                    | 10A                |                   |
| 07967   |        | XA433     | 19  |     |        |           |     |     |            |      |       |       | SPO     | 01     |          | 00          | 1                | TDD   | DQ                  |                    | 09B                |                   |
| 05044   |        | XA433     | 20  |     | XA433  | 36        |     |     | 16B        | 9    |       |       | SPI007  | 06     |          | 01          | 1                | TDD   | DP                  |                    | 11A                |                   |
| 07968   |        | XA433     | 21  |     |        |           |     |     |            |      |       |       | SPO     | 01     |          | 00          | 1                | TDD   | DP                  |                    | 10B                |                   |
| 05688   |        | XA433     | 22  |     | XA433  | 38        |     |     | 16B        | 9    |       |       | SPI028  | 13     | TK07BP   | 01          | 1                | TDD   | CP                  |                    | 12A                | C09               |
| 07969   |        | XA433     | 23  |     | XA115  | 40        |     |     | 16B        | 9    |       |       | TK07BP  | 01     | TK07BP   | 00          | 1                | TDD   | CP                  |                    | 11B                | C10               |
| 05900   |        | XA433     | 24  |     |        |           |     |     |            |      |       |       | TS203A  | 03     | TK07BI   | 01          | 1                | TDD   | CI                  |                    | 13A                | C09               |
| 07970   |        | XA433     | 25  |     |        |           |     |     |            |      |       |       | TK07BQ  | 01     | TK07BQ   | 00          | 1                | TDD   | CQ                  |                    | 12B                | C10               |
| 05932   |        | XA433     | 26  |     |        |           |     |     |            |      |       |       | TKBAA8  | 17     | TK07BN   | 01          | 1                | TDD   | CN                  |                    | 14A                | C09               |
| 05629   |        | XA433     | 27  |     |        |           |     |     |            |      |       |       | TMRUMB4 | 33     | TK07BQ   | 01          | 1                | TDD   | CQ                  |                    | 13B                | C09               |
| 00621   |        | XA433     | 28  |     |        |           |     |     |            |      |       |       | +5V     | 01     |          |             |                  |       |                     |                    |                    |                   |
| 05059   |        | XA433     | 29  |     | XA433  | 41        |     |     | 16B        | 9    |       |       | SPI008  | 07     |          | 01          | 1                | TDD   | FQ                  |                    | 14B                |                   |
| 05034   |        | XA433     | 30  |     | XA433  | 14        |     |     | 16B        | 9    |       |       | SPI006  | 11     |          | 01          | 1                | TDD   | FN                  |                    | 15A                |                   |
| 07971   |        | XA433     | 31  |     |        |           |     |     |            |      |       |       | SPO     | 01     |          | 00          | 1                | TDD   | FQ                  |                    | 15B                |                   |
| 02822   |        | XA433     | 32  |     |        |           |     |     |            |      |       |       | GND     | 01     |          |             |                  |       |                     |                    | 21B                |                   |
| 07972   |        | XA433     | 33  |     |        |           |     |     |            |      |       |       | SPO     | 01     |          | 00          | 1                | TDD   | FP                  |                    | 16B                |                   |
| 05012   |        | XA433     | 34  |     | XA433  | 71        |     |     | 16B        | 9    |       |       | SPI005  | 09     |          | 01          | 1                | TDD   | FI                  |                    | 16A                |                   |
| 07973   |        | XA433     | 35  |     |        |           |     |     |            |      |       |       | SPO     | 01     |          | 00          | 1                | TDD   | EP                  |                    | 17B                |                   |
| 05045   |        | XA433     | 36  |     | XA433  | 50        |     |     | 16B        | 9    |       |       | SPI007  | 07     |          | 01          | 1                | TDD   | FP                  |                    | 17A                |                   |
| 07974   |        | XA433     | 37  |     |        |           |     |     |            |      |       |       | SPO     | 01     |          | 00          | 1                | TDD   | EQ                  |                    | 18B                |                   |
| 05689   |        | XA433     | 38  |     | XA433  | 52        |     |     | 16B        | 9    |       |       | SPI028  | 14     |          | 01          | 1                | TDD   | EP                  |                    | 18A                |                   |
| 05628   |        | XA433     | 39  |     | XA433  | 80        |     |     | 16B        | 9    |       |       | SPI026  | 20     |          | 01          | 1                | TDD   | EQ                  |                    | 19B                | C09               |
| 05955   |        | XA433     | 40  |     | XA436  | 37        |     |     | 16B        | 9    |       |       | SPI036  | 09     |          | 01          | 1                | TDD   | EI                  |                    | 19A                |                   |
| 05060   |        | XA433     | 41  |     | XA433  | 53        |     |     | 16B        | 9    |       |       | SPI008  | 08     |          | 01          | 1                | TDD   | HQ                  |                    | 22B                |                   |
| 05933   |        | XA433     | 42  |     | XA432  | 40        |     |     | 16B        | 9    |       |       | SPI035  | 17     |          | 01          | 1                | TDD   | EN                  |                    | 20A                |                   |
| 07975   |        | XA433     | 43  |     |        |           |     |     |            |      |       |       | SPO     | 01     |          | 00          | 1                | TDD   | HQ                  |                    | 23B                |                   |
| 02823   |        | XA433     | 44  |     |        |           |     |     |            |      |       |       | GND     | 01     |          |             |                  |       |                     |                    | 27A                |                   |
| CONNECTOR XA433 CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |            |      |       |       |         |        |          |             |                  |       |                     |                    |                    |                   |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA433  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 319

| RECORD NUMBER | FROM   |                                 |     |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL | SEC NO | EQUATION | T  | R | C   | L  | P | S   | TEST POINTS (END OF) | SIGNAL DESCRIPTION | ECC NO |
|---------------|--------|---------------------------------|-----|----|--------|-----------|-----|----|-------------|------|-------|-------|--------|--------|----------|----|---|-----|----|---|-----|----------------------|--------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | TO | PREFIX | CONNECTOR | PIN | TO | MULTI GROUP | CODE | CO-IN | IDENT |        |        |          |    |   |     |    |   |     |                      |                    |        |
| 07976         |        | XA433                           | 45  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | HP |   | 24B |                      |                    |        |
| 05033         |        | XA433                           | 46  |    | XA433  | 30        |     |    | 16B         | 9    |       |       | SPI006 | 10     |          | 01 | 1 | TDD | HN |   | 21A |                      |                    |        |
| 07977         |        | XA433                           | 47  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | GP |   | 25B |                      |                    |        |
| 05015         |        | XA433                           | 48  |    | XA444  | 49        |     |    | 16B         | 9    |       |       | SPI005 | 12     |          | 01 | 1 | TDD | HI |   | 22A |                      |                    |        |
| 07978         |        | XA433                           | 49  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | GQ |   | 26B |                      |                    |        |
| 05046         |        | XA433                           | 50  |    | XA433  | 64        |     |    | 16B         | 9    |       |       | SPI007 | 08     |          | 01 | 1 | TDD | HP |   | 23A |                      |                    |        |
| 05627         |        | XA433                           | 51  |    | XA433  | 39        |     |    | 16B         | 9    |       |       | SPI026 | 19     |          | 01 | 1 | TDD | GQ |   | 27B |                      |                    |        |
| 05690         |        | XA433                           | 52  |    | XA432  | 52        |     |    | 16B         | 9    |       |       | SPI028 | 15     |          | 01 | 1 | TDD | GP |   | 24A |                      |                    |        |
| 05061         |        | XA433                           | 53  |    | XA433  | 65        |     |    | 16B         | 9    |       |       | SPI008 | 09     |          | 01 | 1 | TDD | KQ |   | 28B |                      |                    |        |
| 05952         |        | XA433                           | 54  |    | XA432  | 54        |     |    | 16B         | 9    |       |       | SPI036 | 06     |          | 01 | 1 | TDD | GI |   | 25A |                      |                    |        |
| 07979         |        | XA433                           | 55  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | KQ |   | 29B |                      |                    |        |
| 05936         |        | XA433                           | 56  |    | XA433  | 70        |     |    | 16B         | 9    |       |       | SPI035 | 20     |          | 01 | 1 | TDD | GN |   | 26A |                      |                    |        |
| 07980         |        | XA433                           | 57  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | KP |   | 30B |                      |                    |        |
| 02824         |        | XA433                           | 58  |    |        |           |     |    |             |      |       |       | GND    | 01     |          |    |   | TDD |    |   | 40A |                      |                    |        |
| 07981         |        | XA433                           | 59  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | JP |   | 31B |                      |                    |        |
| 05032         |        | XA433                           | 60  |    | XA433  | 46        |     |    | 16B         | 9    |       |       | SPI006 | 09     |          | 01 | 1 | TDD | KN |   | 28A |                      |                    |        |
| 07982         |        | XA433                           | 61  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | JQ |   | 32B |                      |                    |        |
| 05014         |        | XA433                           | 62  |    | XA433  | 48        |     |    | 16B         | 9    |       |       | SPI005 | 11     |          | 01 | 1 | TDD | KI |   | 29A |                      |                    |        |
| 05626         |        | XA433                           | 63  |    | XA433  | 51        |     |    | 16B         | 9    |       |       | SPI026 | 18     |          | 01 | 1 | TDD | JQ |   | 33B |                      |                    |        |
| 05047         |        | XA433                           | 64  |    | XA433  | 73        |     |    | 16B         | 9    |       |       | SPI007 | 09     |          | 01 | 1 | TDD | KP |   | 30A |                      |                    |        |
| 05062         |        | XA433                           | 65  |    | XA444  | 71        |     |    | 16B         | 9    |       |       | SPI008 | 10     |          | 01 | 1 | TDD | MQ |   | 34B |                      |                    |        |
| 05994         |        | XA433                           | 66  |    | XA433  | 75        |     |    | 16B         | 9    |       |       | SPI037 | 12     |          | 01 | 1 | TDD | JP |   | 31A |                      |                    |        |
| 02825         |        | XA433                           | 67  |    |        |           |     |    |             |      |       |       | GND    | 01     |          |    |   | TDD |    |   | 40B |                      |                    |        |
| 05951         |        | XA433                           | 68  |    | XA433  | 54        |     |    | 16B         | 9    |       |       | SPI036 | 05     |          | 01 | 1 | TDD | JL |   | 32A |                      |                    |        |
| 07983         |        | XA433                           | 69  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | MP |   | 35A |                      |                    |        |
| 05937         |        | XA433                           | 70  |    | XA433  | 79        |     |    | 16B         | 9    |       |       | SPI035 | 21     |          | 01 | 1 | TDD | JN |   | 33A |                      |                    |        |
| 05013         |        | XA433                           | 71  |    | XA433  | 62        |     |    | 16B         | 9    |       |       | SPI005 | 10     |          | 01 | 1 | TDD | MI |   | 36A |                      |                    |        |
| 05031         |        | XA433                           | 72  |    | XA433  | 60        |     |    | 16B         | 9    |       |       | SPI006 | 08     |          | 01 | 1 | TDD | MN |   | 34A |                      |                    |        |
| 05048         |        | XA433                           | 73  |    | XA444  | 79        |     |    | 16B         | 9    |       |       | SPI007 | 10     |          | 01 | 1 | TDD | MP |   | 36B |                      |                    |        |
| 07984         |        | XA433                           | 74  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | MQ |   | 35B |                      |                    |        |
| 05995         |        | XA433                           | 75  |    | XA437  | 73        |     |    | 16B         | 9    |       |       | SPI037 | 13     |          | 01 | 1 | TDD | LP |   | 37B |                      |                    |        |
| 07985         |        | XA433                           | 76  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | LP |   | 37A |                      |                    |        |
| 05949         |        | XA433                           | 77  |    | XA432  | 74        |     |    | 16B         | 9    |       |       | SPI036 | 03     |          | 01 | 1 | TDD | LI |   | 38B |                      |                    |        |
| 07986         |        | XA433                           | 78  |    |        |           |     |    |             |      |       |       | SPO    | 01     |          | 00 | 1 | TDD | LQ |   | 38A |                      |                    |        |
| 05938         |        | XA433                           | 79  |    | XA427  | 78        |     |    | 16B         | 9    |       |       | SPI035 | 22     |          | 01 | 1 | TDD | LN |   | 39B |                      | C11                |        |
| 05630         |        | XA433                           | 80  |    | XA437  | 71        |     |    | 16B         | 9    |       |       | SPI026 | 22     |          | 01 | 1 | TDD | LQ |   | 39A |                      | E03                |        |
| 15271         |        | XA434                           | 01  |    |        |           |     |    |             |      |       |       | TRDA2A | 02     | TRO2BS   | 01 | 1 | TT3 | A2 |   | 02B |                      |                    |        |
| 02826         |        | XA434                           | 02  |    |        |           |     |    |             |      |       |       | GND    | 01     |          |    |   | TT3 |    |   | 01B |                      |                    |        |
| 15464         |        | XA434                           | 03  |    | XA412  | 11        |     |    | 16B         | 9    |       |       | TRO2BR | 05     | TRO2BS   | 01 | 2 | TT3 | A2 |   | 02A |                      |                    |        |
| 15457         |        | XA434                           | 04  |    | XA413  | 04        |     |    | 16B         | 9    |       |       | TRO1BS | 03     | TRO1BS   | 00 | 1 | TT3 | A1 |   | 04A |                      | REQ REG 2ND PRIO   |        |
| 15222         |        | XA434                           | 05  |    | XA136  | 57        |     |    | 16B         | 9    |       |       | TRCPUA | 01     | TRO2BS   | 01 | 3 | TT3 | A2 |   | 03B |                      |                    |        |
| 15268         |        | XA434                           | 06  |    | XA431  | 57        |     |    | 16B         | 9    |       |       | TRDA1A | 01     | TRO1BS   | 01 | 1 | TT3 | A1 |   | 05A |                      |                    |        |
| 15468         |        | XA434                           | 07  |    | XA412  | 06        |     |    | 16B         | 9    |       |       | TRO2BS | 03     | TRO2BS   | 00 | 1 | TT3 | A2 |   | 03A |                      | REQ REG 3RD PRIO   |        |
| 15450         |        | XA434                           | 08  |    | XA435  | 04        |     |    | 16B         | 9    |       |       | TRO1BR | 02     | TRO1BS   | 01 | 2 | TT3 | A1 |   | 06A |                      |                    |        |
| 05930         |        | XA434                           | 09  |    | XA433  | 15        |     |    | 16B         | 9    |       |       | SPI035 | 14     |          | 01 | 1 | TT3 | A3 |   | 04B |                      |                    |        |
| 15216         |        | XA434                           | 10  |    |        |           |     |    |             |      |       |       | TRCCCA | 02     | TRO1BS   | 01 | 3 | TT3 | A1 |   | 07A |                      |                    |        |
| 05984         |        | XA434                           | 11  |    | XA436  | 13        |     |    | 16B         | 9    |       |       | SPI037 | 02     |          | 01 | 2 | TT3 | A3 |   | 05B |                      |                    |        |
| 00622         |        | XA434                           | 12  |    |        |           |     |    |             |      |       |       | +5V    | 01     |          |    |   | TT3 |    |   |     |                      |                    |        |
| CONNECTOR     | XA434  | CONTINUED ON THE NEXT PAGE **** |     |    |        |           |     |    |             |      |       |       |        |        |          |    |   |     |    |   |     |                      |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA434  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 320

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |       |      | SIGNAL | SEQ NO | EQUIPMENT | TERMINAL | CIRCUIT | FUNCTION | DESCRIPTION |       |
|---|--------|-----------|-----|--------|-----------|-----|------|-------|------|--------|--------|-----------|----------|---------|----------|-------------|-------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | GROUP | CODE |        |        |           |          |         |          |             | COLOR |
| 05978   |        | XA434     | 13  |        | XA433     | 08  |      |       | 16B  | 9      |        | SPI036    | 32       |         |          | 06B         |       |
| 15731   |        | XA434     | 14  |        | XA434     | 21  |      |       | 16B  | 9      |        | TS00A0    | 08       | TRQ4AA  | 01 1     | TT3 B2      | 09A * |
| 07987   |        | XA434     | 15  |        |           |     |      |       |      |        |        | SPO       | 01       |         | 00 1     | TT3 A3      | 07B   |
| 02827   |        | XA434     | 16  |        |           |     |      |       |      |        |        | GND       | 01       |         |          | TT3         | 21B   |
| 15376   |        | XA434     | 17  |        |           |     |      |       |      |        |        | TRQ4A0    | 02       | TRQ4AA  | 01 2     | TT3 B2      | 08B   |
| 17418   |        | XA434     | 18  |        | XA318     | 48  |      |       | 16B  | 9      |        | WR40LA    | 01       | TRQ4AA  | 01 3     | TT3 B2      | 10A   |
| 15368   |        | XA434     | 19  |        | XA435     | 38  |      |       | 16B  | 9      |        | TRQ4AA    | 01       | TRQ4AA  | 00 1     | TT3 B2      | 09B   |
| 10734   |        | XA434     | 20  |        | XA116     | 71  |      |       | 16B  | 9      |        | TDIPAO    | 02       | TDIPAO  | 00 1     | TT3 B1      | 11A   |
| 15732   |        | XA434     | 21  |        | XA414     | 29  |      |       | 16B  | 9      |        | TS00A0    | 09       | TRQ5AA  | 01 1     | TT3 B3      | 10B * |
| 10747   |        | XA434     | 22  |        | XA426     | 13  |      |       | 16B  | 9      |        | TDIPXA    | 01       | TDIPAO  | 01 1     | TT3 B1      | 12A   |
| 15392   |        | XA434     | 23  |        |           |     |      |       |      |        |        | TRQ5A0    | 02       | TRQ5AA  | 01 2     | TT3 B3      | 11B   |
| 10740   |        | XA434     | 24  |        | XA430     | 08  |      |       | 16B  | 9      |        | TDIPBB4   | 01       | TDIPAO  | 01 2     | TT3 B1      | 13A   |
| 17421   |        | XA434     | 25  |        |           |     |      |       |      |        |        | WR50LA    | 02       | TRQ5AA  | 01 3     | TT3 B3      | 12B   |
| 19611   |        | XA434     | 26  |        | XA515     | 38  |      |       | 16B  | 9      |        | XIIPAA    | 01       | TDIPAO  | 01 3     | TT3 B1      | 14A   |
| 15385   |        | XA434     | 27  |        |           |     |      |       |      |        |        | TRQ5AA    | 02       | TRQ5AA  | 00 1     | TT3 B3      | 13B   |
| 00623   |        | XA434     | 28  |        |           |     |      |       |      |        |        | +5V       | 01       |         |          | TT3         |       |
| 13510   |        | XA434     | 29  |        | XA205     | 70  |      |       | 16B  | 9      |        | TIOSAA    | 02       | TRQ9BR  | 01 1     | TT3 C2      | 14B   |
| 15529   |        | XA434     | 30  |        | XA413     | 34  |      |       | 16B  | 9      |        | TRQ9BS    | 03       | TRQ9BR  | 01 2     | TT3 C2      | 15A   |
| 15525   |        | XA434     | 31  |        | XA436     | 34  |      |       | 16B  | 9      |        | TRQ9BR    | 02       | TRQ9BR  | 00 1     | TT3 C2      | 15B   |
| 02828   |        | XA434     | 32  |        |           |     |      |       |      |        |        | GND       | 01       |         |          | TT3         | 27A   |
| 08679   |        | XA434     | 33  |        | XA434     | 41  |      |       | 16B  | 9      |        | TA06BP    | 04       | TDA0BA  | 01 1     | TT3 C3      | 16B   |
| 15228   |        | XA434     | 34  |        | XA434     | 40  |      |       | 16B  | 9      |        | TRCR1A    | 03       | TRQ9BR  | 01 3     | TT3 C2      | 16A   |
| 08658   |        | XA434     | 35  |        | XA442     | 33  |      |       | 16B  | 9      |        | TA05BP    | 05       | TDA0BA  | 01 2     | TT3 C3      | 17B   |
| 15516   |        | XA434     | 36  |        | XA436     | 38  |      |       | 16B  | 9      |        | TRQ8BR    | 01       | TRQ8BR  | 00 1     | TT3 C1      | 17A   |
| 08634   |        | XA434     | 37  |        | XA442     | 35  |      |       | 16B  | 9      |        | TA04BP    | 05       | TDA0BA  | 01 3     | TT3 C3      | 18B   |
| 15521   |        | XA434     | 38  |        | XA413     | 40  |      |       | 16B  | 9      |        | TRQ8BS    | 03       | TRQ8BR  | 01 1     | TT3 C1      | 18A   |
| 10586   |        | XA434     | 39  |        | XA439     | 35  |      |       | 16B  | 9      |        | TDA0BA    | 01       | TDA0BA  | 00 1     | TT3 C3      | 19B   |
| 15229   |        | XA434     | 40  |        | XA412     | 38  |      |       | 16B  | 9      |        | TRCR1A    | 04       | TRQ8BR  | 01 2     | TT3 C1      | 19A   |
| 08680   |        | XA434     | 41  |        | XA442     | 47  |      |       | 16B  | 9      |        | TA06BP    | 05       | TDA2BA  | 01 1     | TT3 D2      | 22B   |
| 13509   |        | XA434     | 42  |        | XA434     | 29  |      |       | 16B  | 9      |        | TIOSAA    | 01       | TRQ8BR  | 01 3     | TT3 C1      | 20A   |
| 10596   |        | XA434     | 43  |        | XA439     | 52  |      |       | 16B  | 9      |        | TDA2BA    | 01       | TDA2BA  | 00 1     | TT3 D2      | 23B   |
| 02829   |        | XA434     | 44  |        |           |     |      |       |      |        |        | GND       | 01       |         |          | TT3         | 40A   |
| 08633   |        | XA434     | 45  |        | XA434     | 37  |      |       | 16B  | 9      |        | TA04BP    | 04       | TDA3BA  | 01 1     | TT3 D3      | 24B   |
| 08661   |        | XA434     | 46  |        | XA434     | 49  |      |       | 16B  | 9      |        | TA05BQ    | 02       | TDA2BA  | 01 2     | TT3 D2      | 21A   |
| 08685   |        | XA434     | 47  |        | XA434     | 53  |      |       | 16B  | 9      |        | TA06BQ    | 04       | TDA3BA  | 01 2     | TT3 D3      | 25B   |
| 08632   |        | XA434     | 48  |        | XA434     | 45  |      |       | 16B  | 9      |        | TA04BP    | 03       | TDA2BA  | 01 3     | TT3 D2      | 22A   |
| 08662   |        | XA434     | 49  |        | XA434     | 57  |      |       | 16B  | 9      |        | TA05BQ    | 03       | TDA3BA  | 01 3     | TT3 D3      | 26B   |
| 10591   |        | XA434     | 50  |        | XA439     | 39  |      |       | 16B  | 9      |        | TDA1BA    | 01       | TDA1BA  | 00 1     | TT3 D1      | 23A   |
| 10601   |        | XA434     | 51  |        | XA439     | 50  |      |       | 16B  | 9      |        | TDA3BA    | 01       | TDA3BA  | 00 1     | TT3 D3      | 27B   |
| 08687   |        | XA434     | 52  |        | XA442     | 49  |      |       | 16B  | 9      |        | TA06BQ    | 06       | TDA1BA  | 01 1     | TT3 D1      | 24A   |
| 08686   |        | XA434     | 53  |        | XA434     | 52  |      |       | 16B  | 9      |        | TA06BQ    | 05       | TDA5BA  | 01 1     | TT3 E2      | 28B   |
| 08657   |        | XA434     | 54  |        | XA434     | 35  |      |       | 16B  | 9      |        | TA05BP    | 04       | TDA1BA  | 01 2     | TT3 D1      | 25A   |
| 10612   |        | XA434     | 55  |        | XA439     | 45  |      |       | 16B  | 9      |        | TDA5BA    | 01       | TDA5BA  | 00 1     | TT3 E2      | 29B   |
| 08631   |        | XA434     | 56  |        | XA434     | 48  |      |       | 16B  | 9      |        | TA04BP    | 02       | TDA1BA  | 01 3     | TT3 D1      | 26A   |
| 08663   |        | XA434     | 57  |        | XA434     | 75  |      |       | 16B  | 9      |        | TA05BQ    | 04       | TDA6BA  | 01 1     | TT3 E3      | 30B   |
| 02830   |        | XA434     | 58  |        |           |     |      |       |      |        |        | GND       | 01       |         |          | TT3         | 40B   |
| 08678   |        | XA434     | 59  |        | XA434     | 33  |      |       | 16B  | 9      |        | TA06BP    | 03       | TDA6BA  | 01 2     | TT3 E3      | 31B   |
| 08641   |        | XA434     | 60  |        | XA442     | 37  |      |       | 16B  | 9      |        | TA04BQ    | 06       | TDA5BA  | 01 2     | TT3 E2      | 28A   |
| 08639   |        | XA434     | 61  |        | XA434     | 66  |      |       | 16B  | 9      |        | TA04BQ    | 04       | TDA6BA  | 01 3     | TT3 E3      | 32B   |
| 08656   |        | XA434     | 62  |        | XA434     | 54  |      |       | 16B  | 9      |        | TA05BP    | 03       | TDA5BA  | 01 3     | TT3 E2      | 29A   |
| CONNECTOR (XA434) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |       |      |        |        |           |          |         |          |             |       |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA434  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 321

| RECORD NUMBER | FROM   |           |                                  |    | TO     |           |     |    | WIRE        |      |       | SIGNAL | REQ NO | EQUATION | 3  | 4 | 5   | 6   | 7 | 8 | 9 | 10  | SIGNAL DESCRIPTION | LOC NO |
|---------------|--------|-----------|----------------------------------|----|--------|-----------|-----|----|-------------|------|-------|--------|--------|----------|----|---|-----|-----|---|---|---|-----|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                              | TO | PREFIX | CONNECTOR | PIN | TO | MULTI GROUP | CODE | COLOR |        |        |          |    |   |     |     |   |   |   |     |                    |        |
| 10616         |        | XA434     | 63                               |    | XA439  | 47        |     |    | 168         | 9    |       | TDA68A | 01     | TDA68A   | 00 | 1 | TT3 | E3  |   |   |   | 338 | ADD 6              |        |
| 10608         |        | XA434     | 64                               |    | XA439  | 41        |     |    | 168         | 9    |       | TDA4BA | 01     | TDA4BA   | 00 | 1 | TT3 | E1  |   |   |   | 30A | ADD 4              |        |
| 19912         |        | XA434     | 65                               |    | XA435  | 71        |     |    | 168         | 9    |       | XMR20P | 07     | XMR2WA   | 01 | 1 | TT3 | F2  |   |   |   | 348 |                    |        |
| 08640         |        | XA434     | 66                               |    | XA434  | 60        |     |    | 168         | 9    |       | TA048Q | 05     | TDA4BA   | 01 | 1 | TT3 | E1  |   |   |   | 31A |                    |        |
| 02831         |        | XA434     | 67                               |    |        |           |     |    |             |      |       | GND    | 01     |          |    |   |     | TT3 |   |   |   |     |                    |        |
| 08655         |        | XA434     | 68                               |    | XA434  | 62        |     |    | 168         | 9    |       | TA058P | 02     | TDA4BA   | 01 | 2 | TT3 | E1  |   |   |   | 32A |                    |        |
| 09135         |        | XA434     | 69                               |    | XA305  | 77        |     |    | 168         | 9    |       | TBR5UA | 01     | TINTRA   | 01 | 1 | TT3 | F3  |   |   |   | 35A |                    |        |
| 08677         |        | XA434     | 70                               |    | XA434  | 59        |     |    | 168         | 9    |       | TA068P | 02     | TDA4BA   | 01 | 3 | TT3 | F1  |   |   |   | 33A |                    |        |
| 19919         |        | XA434     | 71                               |    | XA432  | 46        |     |    | 168         | 9    |       | XMR01R | 03     | XMR2WA   | 01 | 2 | TT3 | F2  |   |   |   | 36A |                    |        |
| 19937         |        | XA434     | 72                               |    |        |           |     |    |             |      |       | XMR02S | 03     | XMR2WA   | 01 | 3 | TT3 | F2  |   |   |   | 34A |                    |        |
| 10620         |        | XA434     | 73                               |    | XA439  | 51        |     |    | 168         | 9    |       | TDA7BA | 01     | TDA7BA   | 00 | 1 | TT3 | F1  |   |   |   | 368 | ADD 7              |        |
| 19979         |        | XA434     | 74                               |    | XA437  | 43        |     |    | 168         | 9    |       | XMR2WA | 01     | XMR2WA   | 00 | 1 | TT3 | F2  |   |   |   | 358 |                    |        |
| 08664         |        | XA434     | 75                               |    | XA210  | 70        |     |    | 168         | 9    |       | TA058Q | 05     | TDA7BA   | 01 | 1 | TT3 | F1  |   |   |   | 378 |                    |        |
| 15623         |        | XA434     | 76                               |    | XA339  | 31        |     |    | 168         | 9    |       | TINTRA | 01     | TINTRA   | 01 | 2 | TT3 | F3  |   |   |   | 37A |                    |        |
| 08684         |        | XA434     | 77                               |    | XA434  | 47        |     |    | 168         | 9    |       | TA068Q | 01     | TDA7BA   | 01 | 2 | TT3 | F1  |   |   |   | 388 |                    |        |
| 13405         |        | XA434     | 78                               |    | XA304  | 80        |     |    | 168         | 9    |       | TINTSA | 01     | TINTRA   | 01 | 3 | TT3 | F3  |   |   |   | 38A |                    |        |
| 08638         |        | XA434     | 79                               |    | XA434  | 61        |     |    | 168         | 9    |       | TA048Q | 03     | TDA7BA   | 01 | 3 | TT3 | F1  |   |   |   | 398 |                    |        |
| 13400         |        | XA434     | 80                               |    | XA205  | 47        |     |    | 168         | 9    |       | TINTKA | 01     | TINTRA   | 00 | 1 | TT3 | F3  |   |   |   | 39A | S02 AND BURST NO   |        |
| 15438         |        | XA435     | 01                               |    | XA435  | 10        |     |    | 168         | 9    |       | TR03BR | 02     | TRGP10   | 01 | 1 | T04 | A2  |   |   |   | 02B |                    |        |
| 02832         |        | XA435     | 02                               |    |        |           |     |    |             |      |       | GND    | 01     |          |    |   |     | T04 |   |   |   | 01A |                    |        |
| 01503         |        | XA435     | 03                               |    |        |           |     |    |             |      |       | DNW    | 01     |          |    |   |     | T04 |   |   |   |     |                    |        |
| 15451         |        | XA435     | 04                               |    | XA437  | 09        |     |    | 168         | 9    |       | TR01BR | 03     | TRGP10   | 01 | 2 | T04 | A2  |   |   |   | 04A |                    |        |
| 15473         |        | XA435     | 05                               |    | XA412  | 09        |     |    | 168         | 9    |       | TR03BR | 02     | TRGP10   | 01 | 3 | T04 | A2  |   |   |   | 038 |                    |        |
| 15267         |        | XA435     | 06                               |    |        |           |     |    |             |      |       | TRDA3A | 02     | TR00BS   | 01 | 1 | T04 | A1  |   |   |   | 05A |                    |        |
| 15463         |        | XA435     | 07                               |    | XA434  | 03        |     |    | 168         | 9    |       | TR02BR | 04     | TRGP10   | 01 | 4 | T04 | A2  |   |   |   | 03A |                    |        |
| 15323         |        | XA435     | 08                               |    |        |           |     |    |             |      |       | TRQ1AA | 02     | TR00BS   | 01 | 2 | T04 | A1  |   |   |   | 06A |                    |        |
| 15302         |        | XA435     | 09                               |    | XA439  | 04        |     |    | 168         | 9    |       | TRGP10 | 01     | TRGP10   | 00 | 1 | T04 | A2  |   |   |   | 048 | REQ GRP 1-3        |        |
| 15439         |        | XA435     | 10                               |    | XA437  | 11        |     |    | 168         | 9    |       | TR00BK | 03     | TR00BS   | 01 | 3 | T04 | A1  |   |   |   | 07A |                    |        |
| 15446         |        | XA435     | 11                               |    | XA413  | 08        |     |    | 168         | 9    |       | TR00BS | 04     | TR00BS   | 00 | 1 | T04 | A1  |   |   |   | 058 | REQ REG 1ST PRIO   |        |
| 00624         |        | XA435     | 12                               |    |        |           |     |    |             |      |       | +5V    | 01     |          |    |   |     | T04 |   |   |   |     |                    |        |
| 15201         |        | XA435     | 13                               |    | XA438  | 09        |     |    | 168         | 9    |       | TRB41A | 01     | TR00BS   | 01 | 4 | T04 | A1  |   |   |   | 068 |                    |        |
| 15206         |        | XA435     | 14                               |    |        |           |     |    |             |      |       | TR9M3A | 02     | TR04BS   | 01 | 1 | T04 | B2  |   |   |   | 09A |                    |        |
| 01504         |        | XA435     | 15                               |    |        |           |     |    |             |      |       | DNW    | 01     |          |    |   |     | T04 |   |   |   |     |                    |        |
| 02833         |        | XA435     | 16                               |    |        |           |     |    |             |      |       | GND    | 01     |          |    |   |     | T04 |   |   |   | 203 |                    |        |
| 01505         |        | XA435     | 17                               |    |        |           |     |    |             |      |       | DNW    | 01     |          |    |   |     | T04 |   |   |   |     |                    |        |
| 15275         |        | XA435     | 18                               |    |        |           |     |    |             |      |       | TRDA4A | 02     | TR04BS   | 01 | 2 | T04 | B2  |   |   |   | 10A |                    |        |
| 15481         |        | XA435     | 19                               |    | XA437  | 20        |     |    | 168         | 9    |       | TR04BR | 02     | TR04BS   | 01 | 3 | T04 | B2  |   |   |   | 098 |                    |        |
| 15355         |        | XA435     | 20                               |    | XA414  | 50        |     |    | 168         | 9    |       | TRQ3AA | 01     | TR04BS   | 01 | 4 | T04 | B2  |   |   |   | 11A |                    |        |
| 15487         |        | XA435     | 21                               |    | XA438  | 59        |     |    | 168         | 9    |       | TR04BS | 03     | TR04BS   | 00 | 1 | T04 | B2  |   |   |   | 10P | REQ REG 5TH PRIO   |        |
| 15272         |        | XA435     | 22                               |    | XA431  | 75        |     |    | 168         | 9    |       | TRDA3A | 01     | TR03BS   | 01 | 1 | T04 | B1  |   |   |   | 12A |                    |        |
| 15476         |        | XA435     | 23                               |    | XA413  | 11        |     |    | 168         | 9    |       | TR03BS | 02     | TR03BS   | 00 | 1 | T04 | B1  |   |   |   | 118 | REQ REG 4TH PRIO   |        |
| 15339         |        | XA435     | 24                               |    | XA414  | 39        |     |    | 168         | 9    |       | TRQ2AA | 01     | TR03BS   | 01 | 2 | T04 | B1  |   |   |   | 13A |                    |        |
| 15472         |        | XA435     | 25                               |    | XA435  | 05        |     |    | 168         | 9    |       | TR03BR | 01     | TR03BS   | 01 | 3 | T04 | B1  |   |   |   | 12B |                    |        |
| 15203         |        | XA435     | 26                               |    | XA438  | 15        |     |    | 168         | 9    |       | TR0M2A | 01     | TR03BS   | 01 | 4 | T04 | B1  |   |   |   | 14A |                    |        |
| 01506         |        | XA435     | 27                               |    |        |           |     |    |             |      |       | DNW    | 01     |          |    |   |     | T04 |   |   |   |     |                    |        |
| 00625         |        | XA435     | 28                               |    |        |           |     |    |             |      |       | +5V    | 01     |          |    |   |     | T04 |   |   |   |     |                    |        |
| 01507         |        | XA435     | 29                               |    |        |           |     |    |             |      |       | DNW    | 01     |          |    |   |     | T04 |   |   |   |     |                    |        |
| 15279         |        | XA435     | 30                               |    |        |           |     |    |             |      |       | TRDA6A | 02     | TR06BS   | 01 | 1 | T04 | C2  |   |   |   | 15A |                    |        |
| CONNECTOR     |        | XA435     | CONTINUED ON THE NEXT PAGE ***** |    |        |           |     |    |             |      |       |        |        |          |    |   |     |     |   |   |   |     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA435  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 322

| RECORD NUMBER | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SQ NO  | EQUATION | TERM   | FACTORY | CKT OP. CHIP TYPE | GROUP | LOAD CR. POWER PLANE | TEST POINTS LOCATION | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|--------|---------|-------------------|-------|----------------------|----------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |         |                   |       |                      |                      |                    |        |
| 15384         |        | XA435     | 31  |        | XA434     | 27  |             |      | 16B   | 9     |        | TR05AA | 01       | TR06BS | 01      | 2                 | TD4   | C2                   | 158                  |                    |        |
| 02834         |        | XA435     | 32  |        |           |     |             |      |       |       |        | GND    | 01       |        |         |                   |       |                      | 21B                  |                    |        |
| 15504         |        | XA435     | 33  |        | XA437     | 14  |             |      | 16B   | 9     |        | TR06BS | 03       | TR06BS | 00      | 1                 | TD4   | C2                   | 16B                  | REQ REG 7TH PRIO   |        |
| 15500         |        | XA435     | 34  |        | XA412     | 35  |             |      | 16B   | 9     |        | TR06BR | 02       | TR06BS | 01      | 3                 | TD4   | C2                   | 16A                  |                    |        |
| 15494         |        | XA435     | 35  |        | XA436     | 17  |             |      | 16B   | 9     |        | TR05BS | 01       | TR05BS | 00      | 1                 | TD4   | C1                   | 17B                  | REQ REG 6TH PRIO   |        |
| 15210         |        | XA435     | 36  |        |           |     |             |      |       |       |        | TRBM5A | 02       | TR06BS | 01      | 4                 | TD4   | C2                   | 17A                  |                    |        |
| 15276         |        | XA435     | 37  |        | XA431     | 69  |             |      | 16B   | 9     |        | TRDA5A | 01       | TR05BS | 01      | 1                 | TD4   | C1                   | 18B                  |                    |        |
| 15369         |        | XA435     | 38  |        |           |     |             |      |       |       |        | TRQ4AA | 02       | TR05BS | 01      | 2                 | TD4   | C1                   | 18A                  |                    |        |
| 01508         |        | XA435     | 39  |        |           |     |             |      |       |       |        | DNW    | 01       |        |         |                   |       |                      |                      |                    |        |
| 15492         |        | XA435     | 40  |        | XA412     | 21  |             |      | 16B   | 9     |        | TRJ5BR | 03       | TR05BS | 01      | 3                 | TD4   | C1                   | 19A                  |                    |        |
| 01509         |        | XA435     | 41  |        |           |     |             |      |       |       |        | DNW    | 01       |        |         |                   |       |                      |                      |                    |        |
| 15207         |        | XA435     | 42  |        | XA438     | 14  |             |      | 16B   | 9     |        | TRBM4A | 01       | TR05BS | 01      | 4                 | TD4   | C1                   | 20A                  |                    |        |
| 15559         |        | XA435     | 43  |        | XA437     | 21  |             |      | 16B   | 9     |        | TR6WAA | 03       | TAR120 | 01      | 1                 | TD4   | D2                   | 23B                  |                    |        |
| 02835         |        | XA435     | 44  |        |           |     |             |      |       |       |        | GND    | 01       |        |         |                   |       |                      | 27A                  |                    |        |
| 08404         |        | XA435     | 45  |        |           |     |             |      |       |       |        | TAR120 | 02       | TAR120 | 00      | 1                 | TD4   | D2                   | 24B                  | REQ ICX4+5+6+7     |        |
| 15587         |        | XA435     | 46  |        | XA437     | 33  |             |      | 16B   | 9     |        | TR9WAA | 03       | TAR120 | 01      | 2                 | TD4   | D2                   | 21A                  |                    |        |
| 15291         |        | XA435     | 47  |        | XA304     | 76  |             |      | 16B   | 9     |        | TREQB0 | 02       | TREQB0 | 00      | 1                 | TD4   | D1                   | 25B                  | GR'D REQ REG       |        |
| 15568         |        | XA435     | 48  |        | XA437     | 64  |             |      | 16B   | 9     |        | TR7WAA | 04       | TAR120 | 01      | 3                 | TD4   | D2                   | 22A                  |                    |        |
| 15524         |        | XA435     | 49  |        | XA434     | 31  |             |      | 16B   | 9     |        | TR09BR | 01       | TREQB0 | 01      | 1                 | TD4   | D1                   | 26B                  |                    |        |
| 15551         |        | XA435     | 50  |        | XA436     | 19  |             |      | 16B   | 9     |        | TR5WAA | 02       | TAR120 | 01      | 4                 | TD4   | D2                   | 23A                  |                    |        |
| 01510         |        | XA435     | 51  |        |           |     |             |      |       |       |        | DNW    | 01       |        |         |                   |       |                      |                      |                    |        |
| 15311         |        | XA435     | 52  |        | XA437     | 34  |             |      | 16B   | 9     |        | TRGP3A | 01       | TREQB0 | 01      | 2                 | TD4   | D1                   | 24A                  |                    |        |
| 01511         |        | XA435     | 53  |        |           |     |             |      |       |       |        | DNW    | 01       |        |         |                   |       |                      |                      |                    |        |
| 15294         |        | XA435     | 54  |        | XA438     | 61  |             |      | 16B   | 9     |        | TRGP1A | 01       | TREQB0 | 01      | 3                 | TD4   | D1                   | 25A                  |                    |        |
| 15586         |        | XA435     | 55  |        | XA435     | 46  |             |      | 16B   | 9     |        | TR9WAA | 02       | TAR320 | 01      | 1                 | TD4   | E2                   | 29B                  |                    |        |
| 15304         |        | XA435     | 56  |        | XA437     | 40  |             |      | 16B   | 9     |        | TRGP2A | 01       | TREQB0 | 01      | 4                 | TD4   | D1                   | 26A                  |                    |        |
| 08408         |        | XA435     | 57  |        |           |     |             |      |       |       |        | TAR320 | 02       | TAR320 | 00      | 1                 | TD4   | E2                   | 30B                  | REG ICX1+3+5+7     |        |
| 02836         |        | XA435     | 58  |        |           |     |             |      |       |       |        | GND    | 01       |        |         |                   |       |                      | 40A                  |                    |        |
| 08405         |        | XA435     | 59  |        | XA414     | 24  |             |      | 16B   | 9     |        | TAR220 | 01       | TAR220 | 00      | 1                 | TD4   | E1                   | 31B                  | REG IOX 2+3+6+7    |        |
| 15546         |        | XA435     | 60  |        | XA435     | 68  |             |      | 16B   | 9     |        | TR4WAA | 04       | TAR320 | 01      | 2                 | TD4   | E2                   | 28A                  |                    |        |
| 15537         |        | XA435     | 61  |        | XA437     | 55  |             |      | 16B   | 9     |        | TR3WAA | 02       | TAR220 | 01      | 1                 | TD4   | E1                   | 32B                  |                    |        |
| 15436         |        | XA435     | 62  |        |           |     |             |      |       |       |        | TROWAA | 02       | TAR320 | 01      | 3                 | TD4   | E2                   | 29A                  |                    |        |
| 01512         |        | XA435     | 63  |        |           |     |             |      |       |       |        | DNW    | 01       |        |         |                   |       |                      |                      |                    |        |
| 15558         |        | XA435     | 64  |        | XA435     | 43  |             |      | 16B   | 9     |        | TR6WAA | 02       | TAR320 | 01      | 4                 | TD4   | E2                   | 30A                  |                    |        |
| 01513         |        | XA435     | 65  |        |           |     |             |      |       |       |        | DNW    | 01       |        |         |                   |       |                      |                      |                    |        |
| 15585         |        | XA435     | 66  |        | XA435     | 55  |             |      | 16B   | 9     |        | TR9WAA | 01       | TAR220 | 01      | 2                 | TD4   | E1                   | 31A                  |                    |        |
| 02837         |        | XA435     | 67  |        |           |     |             |      |       |       |        | GND    | 01       |        |         |                   |       |                      | 40B                  |                    |        |
| 15547         |        | XA435     | 68  |        |           |     |             |      |       |       |        | TR4WAA | 05       | TAR220 | 01      | 3                 | TD4   | E1                   | 32A                  |                    |        |
| 19985         |        | XA435     | 69  |        |           |     |             |      |       |       |        | XMR3WA | 03       | XMR3WA | 00      | 1                 | TD4   | F2                   | 35A                  |                    |        |
| 15570         |        | XA435     | 70  |        | XA435     | 79  |             |      | 16B   | 9     |        | TR7WAA | 06       | TAR220 | 01      | 4                 | TD4   | E1                   | 33A                  |                    |        |
| 19913         |        | XA435     | 71  |        | XA407     | 65  |             |      | 16B   | 9     |        | XMR00R | 08       | XMR3WA | 01      | 1                 | TD4   | F2                   | 36A                  |                    |        |
| 19918         |        | XA435     | 72  |        | XA434     | 71  |             |      | 16B   | 9     |        | XMR01R | 02       | XMR3WA | 01      | 2                 | TD4   | F2                   | 34A                  |                    |        |
| 19929         |        | XA435     | 73  |        | XA432     | 48  |             |      | 16B   | 9     |        | XMR02R | 02       | XMR3WA | 01      | 3                 | TD4   | F2                   | 36B                  |                    |        |
| 19946         |        | XA435     | 74  |        |           |     |             |      |       |       |        | XMR03S | 03       | XMR3WA | 01      | 4                 | TD4   | F2                   | 35B                  |                    |        |
| 15534         |        | XA435     | 75  |        | XA436     | 20  |             |      | 16B   | 9     |        | TR2WAA | 01       | TAR520 | 01      | 1                 | TD4   | F1                   | 37B                  |                    |        |
| 08410         |        | XA435     | 76  |        |           |     |             |      |       |       |        | TAR520 | 02       | TAR520 | 00      | 1                 | TD4   | F1                   | 37A                  | DEV ADD 2+3+6+7    |        |
| 15557         |        | XA435     | 77  |        | XA435     | 64  |             |      | 16B   | 9     |        | TR6WAA | 01       | TAR520 | 01      | 2                 | TD4   | F1                   | 38B                  |                    |        |
| 15536         |        | XA435     | 78  |        | XA435     | 61  |             |      | 16B   | 9     |        | TR3WAA | 01       | TAR520 | 01      | 3                 | TD4   | F1                   | 38A                  |                    |        |
| 15571         |        | XA435     | 79  |        |           |     |             |      |       |       |        | TR7WAA | 07       | TAR520 | 01      | 4                 | TD4   | F1                   | 39B                  |                    |        |
| 01514         |        | XA435     | 80  |        |           |     |             |      |       |       |        | DNW    | 01       |        |         |                   |       |                      |                      |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA436  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 323

| RECORD NUMBER | FROM   |           |     | S.U. ID | TO     |           |     | WIRE |       |       | MULTI-GROUP | CODE | COL. IN | IDENT  | SIGNAL | SEQ. NO. | EQUATION | Z | T. LEVEL | CMT. OR CHG. TYPE | DIBY | LOAD OF POWER PLANE | TEST POINTS AND ZONE | SIGNAL DESCRIPTION | ECC. NO. |
|---------------|--------|-----------|-----|---------|--------|-----------|-----|------|-------|-------|-------------|------|---------|--------|--------|----------|----------|---|----------|-------------------|------|---------------------|----------------------|--------------------|----------|
|               | PREFIX | CONNECTOR | PIN |         | PREFIX | CONNECTOR | PIN | TYPE | GROUP | IDENT |             |      |         |        |        |          |          |   |          |                   |      |                     |                      |                    |          |
| 15408         |        | XA436     | 01  |         |        |           |     |      |       |       |             |      |         | TRQ6A0 | 02     | TRQ6AA   | 01       | 1 | TT3      | A2                |      |                     | 02B                  | *                  |          |
| 02858         |        | XA436     | 02  |         |        |           |     |      |       |       |             |      |         | GND    | 01     |          |          |   | TT3      |                   |      |                     |                      | 01B                |          |
| 15730         |        | XA436     | 03  |         | XA434  | 14        |     | 16B  | 9     |       |             |      |         | T500A0 | 07     | TRQ6AA   | 01       | 2 | TT3      | A2                |      |                     | 02A                  |                    |          |
| 15310         |        | XA436     | 04  |         |        |           |     |      |       |       |             |      |         | TRGP20 | 02     | TRGP20   | 00       | 1 | TT3      | A1                |      |                     | 04A                  | REQ GRP 2-0        |          |
| 17422         |        | XA436     | 05  |         | XA318  | 41        |     | 16B  | 9     |       |             |      |         | WR60LA | 01     | TRQ6AA   | 01       | 3 | TT3      | A2                |      |                     | 03B                  |                    |          |
| 15450         |        | XA436     | 06  |         | XA437  | 18        |     | 16B  | 9     |       |             |      |         | TR05BR | 01     | TRGP20   | 01       | 1 | TT3      | A1                |      |                     | 05A                  |                    |          |
| 15401         |        | XA436     | 07  |         |        |           |     |      |       |       |             |      |         | TRQ6AA | 02     | TRQ6AA   | 00       | 1 | TT3      | A2                |      |                     | 03A                  | REQ 6 STATE 0      |          |
| 15484         |        | XA436     | 08  |         |        |           |     |      |       |       |             |      |         | TR04BR | 05     | TRGP20   | 01       | 2 | TT3      | A1                |      |                     | 06A                  |                    |          |
| 05977         |        | XA436     | 09  |         | XA434  | 13        |     | 16B  | 9     |       |             |      |         | SPI036 | 31     |          |          |   | TT3      | A3                |      |                     | 04B                  |                    |          |
| 15499         |        | XA436     | 10  |         | XA435  | 34        |     | 16B  | 9     |       |             |      |         | TR06BR | 01     | TRGP20   | 01       | 3 | TT3      | A1                |      |                     | 07A                  |                    |          |
| 05929         |        | XA436     | 11  |         | XA434  | 09        |     | 16B  | 9     |       |             |      |         | SPI035 | 13     |          |          |   | TT3      | A3                |      |                     | 05B                  |                    |          |
| 00626         |        | XA436     | 12  |         |        |           |     |      |       |       |             |      |         | +5V    | 01     |          |          |   | TT3      |                   |      |                     |                      |                    |          |
| 05985         |        | XA436     | 13  |         | XA444  | 37        |     | 16B  | 9     |       |             |      |         | SPI037 | 03     |          |          |   | TT3      | A3                |      |                     | 06B                  |                    |          |
| 15300         |        | XA436     | 14  |         | XA439  | 03        |     | 16B  | 9     |       |             |      |         | TRGP1A | 07     | TR5WAA   | 01       | 1 | TT3      | B2                |      |                     | 09A                  |                    |          |
| 07988         |        | XA436     | 15  |         |        |           |     |      |       |       |             |      |         | SP0    | 01     |          |          |   | TT3      | A3                |      |                     | 07B                  |                    |          |
| 02839         |        | XA436     | 16  |         |        |           |     |      |       |       |             |      |         | GND    | 01     |          |          |   | TT3      |                   |      |                     | 21B                  |                    |          |
| 15495         |        | XA436     | 17  |         | XA413  | 18        |     | 16B  | 9     |       |             |      |         | TR05BS | 02     | TR5WAA   | 01       | 2 | TT3      | B2                |      |                     | 08B                  |                    |          |
| 15483         |        | XA436     | 18  |         | XA436  | 08        |     | 16B  | 9     |       |             |      |         | TR04BR | 04     | TR5WAA   | 01       | 3 | TT3      | B2                |      |                     | 10A                  |                    |          |
| 15552         |        | XA436     | 19  |         | XA439  | 22        |     | 16B  | 9     |       |             |      |         | TR5WAA | 03     | TR5WAA   | 00       | 1 | TT3      | B2                |      |                     | 09B                  | IOX 4 + DEV ADD    |          |
| 15535         |        | XA436     | 20  |         |        |           |     |      |       |       |             |      |         | TR2WAA | 02     | TR2WAA   | 00       | 1 | TT3      | B1                |      |                     | 11A                  | CPU + DEV ADD 2    |          |
| 15298         |        | XA436     | 21  |         | XA437  | 19        |     | 16B  | 9     |       |             |      |         | TRGP1A | 05     | TR7WAA   | 01       | 1 | TT3      | B3                |      |                     | 10B                  |                    |          |
| 15441         |        | XA436     | 22  |         | XA438  | 55        |     | 16B  | 9     |       |             |      |         | TR00BR | 05     | TR2WAA   | 01       | 1 | TT3      | B1                |      |                     | 12A                  |                    |          |
| 15513         |        | XA436     | 23  |         | XA437  | 23        |     | 16B  | 9     |       |             |      |         | TR07BS | 03     | TR7WAA   | 01       | 2 | TT3      | B3                |      |                     | 11B                  |                    |          |
| 15467         |        | XA436     | 24  |         | XA434  | 07        |     | 16B  | 9     |       |             |      |         | TR02BS | 02     | TR2WAA   | 01       | 2 | TT3      | B1                |      |                     | 13A                  |                    |          |
| 15307         |        | XA436     | 25  |         | XA439  | 01        |     | 16B  | 9     |       |             |      |         | TRGP2A | 04     | TR7WAA   | 01       | 3 | TT3      | B3                |      |                     | 12B                  |                    |          |
| 15449         |        | XA436     | 26  |         | XA434  | 08        |     | 16B  | 9     |       |             |      |         | TR01BR | 01     | TR2WAA   | 01       | 3 | TT3      | B1                |      |                     | 14A                  |                    |          |
| 15567         |        | XA436     | 27  |         | XA435  | 48        |     | 16B  | 9     |       |             |      |         | TR7WAA | 03     | TR7WAA   | 00       | 1 | TT3      | B3                |      |                     | 13B                  | IOX6 + DEV ADD 7   |          |
| 00627         |        | XA436     | 28  |         |        |           |     |      |       |       |             |      |         | +5V    | 01     |          |          |   | TT3      |                   |      |                     |                      |                    |          |
| 15214         |        | XA436     | 29  |         |        |           |     |      |       |       |             |      |         | TR8M7A | 02     | TR09BS   | 01       | 1 | TT3      | C2                |      |                     | 14B                  |                    |          |
| 15416         |        | XA436     | 30  |         | XA445  | 39        |     | 16B  | 9     |       |             |      |         | TRQ7AA | 01     | TR09BS   | 01       | 2 | TT3      | C2                |      |                     | 15A                  |                    |          |
| 15528         |        | XA436     | 31  |         | XA434  | 30        |     | 16B  | 9     |       |             |      |         | TR09BS | 02     | TR09BS   | 00       | 1 | TT3      | C2                |      |                     | 15B                  | REQ REG 10TH PRI   |          |
| 02840         |        | XA436     | 32  |         |        |           |     |      |       |       |             |      |         | GND    | 01     |          |          |   | TT3      |                   |      |                     | 27A                  |                    |          |
| 08553         |        | XA436     | 33  |         | XA440  | 30        |     | 16B  | 9     |       |             |      |         | TA004A | 01     | TA0010   | 01       | 1 | TT3      | C3                |      |                     | 16B                  |                    |          |
| 15526         |        | XA436     | 34  |         |        |           |     |      |       |       |             |      |         | TR09BR | 03     | TR09BS   | 01       | 3 | TT3      | C2                |      |                     | 16A                  |                    |          |
| 08552         |        | XA436     | 35  |         |        |           |     |      |       |       |             |      |         | TA002A | 02     | TA0010   | 01       | 2 | TT3      | C3                |      |                     | 17B                  |                    |          |
| 15520         |        | XA436     | 36  |         | XA434  | 38        |     | 16B  | 9     |       |             |      |         | TR08BS | 02     | TR08BS   | 00       | 1 | TT3      | C1                |      |                     | 17A                  | REQ REG 9TH PRI0   |          |
| 05956         |        | XA436     | 37  |         | XA440  | 37        |     | 16B  | 9     |       |             |      |         | SPI036 | 10     | TA0010   | 01       | 3 | TT3      | C3                |      |                     | 18B                  |                    |          |
| 15517         |        | XA436     | 38  |         | XA438  | 64        |     | 16B  | 9     |       |             |      |         | TR08BR | 02     | TR08BS   | 01       | 1 | TT3      | C1                |      |                     | 18A                  |                    |          |
| 08549         |        | XA436     | 39  |         | XA442  | 08        |     | 16B  | 9     |       |             |      |         | TA0010 | 01     | TA0010   | 00       | 1 | TT3      | C3                |      |                     | 19B                  | SET ADD REG 0 FF   |          |
| 15318         |        | XA436     | 40  |         | XA327  | 36        |     | 16B  | 9     |       |             |      |         | TR00AA | 01     | TR08BS   | 01       | 2 | TT3      | C1                |      |                     | 19A                  |                    |          |
| 08604         |        | XA436     | 41  |         |        |           |     |      |       |       |             |      |         | TA024A | 02     | TA0210   | 01       | 1 | TT3      | D2                |      |                     | 22B                  |                    |          |
| 15199         |        | XA436     | 42  |         | XA438  | 01        |     | 16B  | 9     |       |             |      |         | TRBM0A | 01     | TR08BS   | 01       | 3 | TT3      | C1                |      |                     | 20A                  |                    |          |
| 08597         |        | XA436     | 43  |         | XA442  | 24        |     | 16B  | 9     |       |             |      |         | TA0210 | 01     | TA0210   | 00       | 1 | TT3      | D2                |      |                     | 23B                  | SET ADD REG 2 FF   |          |
| 02841         |        | XA436     | 44  |         |        |           |     |      |       |       |             |      |         | GND    | 01     |          |          |   | TT3      |                   |      |                     | 40A                  |                    |          |
| 08629         |        | XA436     | 45  |         |        |           |     |      |       |       |             |      |         | TA034A | 02     | TA0310   | 01       | 1 | TT3      | D3                |      |                     | 24B                  |                    |          |
| 08600         |        | XA436     | 46  |         |        |           |     |      |       |       |             |      |         | TA022A | 02     | TA0210   | 01       | 2 | TT3      | D2                |      |                     | 21A                  |                    |          |
| 08626         |        | XA436     | 47  |         | XA414  | 36        |     | 16B  | 9     |       |             |      |         | TA033A | 01     | TA0310   | 01       | 2 | TT3      | D3                |      |                     | 25B                  |                    |          |
| 08601         |        | XA436     | 48  |         | XA414  | 19        |     | 16B  | 9     |       |             |      |         | TA023A | 01     | TA0210   | 01       | 3 | TT3      | D2                |      |                     | 22A                  |                    |          |
| 08625         |        | XA436     | 49  |         |        |           |     |      |       |       |             |      |         | TA032A | 02     | TA0310   | 01       | 3 | TT3      | D3                |      |                     | 26B                  |                    |          |
| 005           |        | XA436     | 50  |         | XA442  | 05        |     | 16B  | 9     |       |             |      |         | TA0110 | 01     | TA0110   | 00       | 1 | TT3      | D1                |      |                     | 23A                  | SET ADD REG 1 FF   |          |

CONNECTOR (XA436) CONTINUED ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA436  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 324

| RECORD NUMBER                                   | FROM   |           |     | TO | WIRE   |           |     |            | SIGNAL | SEC NO | EQUATION | TERMS | FACTOR | CKT OR CHIP TYPE | COP | COPD OR PLANE | TEST POINTS AND/OR PIN NO | SIGNAL DESCRIPTION | TIO NO           |      |
|---|--------|-----------|-----|----|--------|-----------|-----|------------|--------|--------|----------|-------|--------|------------------|-----|---------------|---------------------------|--------------------|------------------|------|
|   | PREFIX | CONNECTOR | PIN |    | PREFIX | CONNECTOR | PIN | WIRE GROUP |        |        |          |       |        |                  |     |               |                           |                    |                  | CODE |
| 08622   |        | XA436     | 51  |    | XA442  | 18        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 27B                | SET ADD REG 3 FF |      |
| 08579   |        | XA436     | 52  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 24A                |                  |      |
| 08673   |        | XA436     | 53  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 28B                |                  |      |
| 08576   |        | XA436     | 54  |    | XA414  | 15        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 25A                |                  |      |
| 08670   |        | XA436     | 55  |    | XA442  | 34        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 29B                | SET ADD REG 5 FF |      |
| 08575   |        | XA436     | 56  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 26A                |                  |      |
| 08695   |        | XA436     | 57  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 30B                |                  |      |
| 02842   |        | XA436     | 58  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 40B                |                  |      |
| 08697   |        | XA436     | 59  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 31B                |                  |      |
| 08674   |        | XA436     | 60  |    | XA438  | 69        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 28A                |                  |      |
| 05964   |        | XA436     | 61  |    | XA436  | 70        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 32B                |                  |      |
| 05963   |        | XA436     | 62  |    | XA436  | 61        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 29A                |                  |      |
| 08692   |        | XA436     | 63  |    | XA442  | 54        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 33B                | SET ADD REG 6 FF |      |
| 08646   |        | XA436     | 64  |    | XA442  | 40        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 30A                | SET ADD REG 4 FF |      |
| 12943   |        | XA436     | 65  |    | XA440  | 77        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 34B                |                  | E03  |
| 08650   |        | XA436     | 66  |    | XA440  | 72        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 31A                |                  |      |
| 02843   |        | XA436     | 67  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           |                    |                  |      |
| 08649   |        | XA436     | 68  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 32A                |                  |      |
| 11013   |        | XA436     | 69  |    | XA526  | 08        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 35A                |                  |      |
| 05965   |        | XA436     | 70  |    | XA437  | 72        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 33A                |                  |      |
| 12938   |        | XA436     | 71  |    | XA440  | 79        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 36A                |                  | E03  |
| 12929   |        | XA436     | 72  |    | XA535  | 50        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 34A                |                  | E03  |
| 15657   |        | XA436     | 73  |    | XA446  | 34        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 36B                | 180 N SEC START  | T805 |
| 12947   |        | XA436     | 74  |    |        |           |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 35B                |                  | E03  |
| 15652   |        | XA436     | 75  |    | XA433  | 07        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 37B                |                  |      |
| 04351   |        | XA436     | 76  |    | XA207  | 76        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 37A                |                  |      |
| 15646   |        | XA436     | 77  |    | XA433  | 05        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 38B                |                  |      |
| 04664   |        | XA436     | 78  |    | XA415  | 47        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 38A                |                  |      |
| 15635   |        | XA436     | 79  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 39B                |                  |      |
| 04671   |        | XA436     | 80  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 39A                | INDICATOR LINE T |      |
| 15226   |        | XA437     | 01  |    | XA437  | 10        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 02B                |                  |      |
| 02844   |        | XA437     | 02  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 01A                |                  |      |
| 01515   |        | XA437     | 03  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           |                    |                  |      |
| 13507   |        | XA437     | 04  |    | XA145  | 65        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 04A                |                  |      |
| 15456   |        | XA437     | 05  |    | XA434  | 04        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 03B                |                  |      |
| 15246   |        | XA437     | 06  |    | XA415  | 66        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 05A                |                  |      |
| 15249   |        | XA437     | 07  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 03A                |                  |      |
| 15445   |        | XA437     | 08  |    | XA435  | 11        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 06A                |                  |      |
| 15452   |        | XA437     | 09  |    | XA441  | 10        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 04B                | REQ REG 2ND PRIO |      |
| 15227   |        | XA437     | 10  |    | XA434  | 34        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 07A                |                  |      |
| 15440   |        | XA437     | 11  |    | XA436  | 22        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 05B                | REQ REG 1ST PRIO |      |
| 00628   |        | XA437     | 12  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           |                    |                  |      |
| 13506   |        | XA437     | 13  |    | XA437  | 04        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 06B                |                  |      |
| 15505   |        | XA437     | 14  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 09A                |                  |      |
| 01516   |        | XA437     | 15  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           |                    |                  |      |
| 02845   |        | XA437     | 16  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           | 20B                |                  |      |
| 01517   |        | XA437     | 17  |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           |                    |                  |      |
| 15491   |        | XA437     | 18  |    | XA435  | 40        |     |            | 168    | 9      |          |       |        |                  |     |               |                           | 10A                |                  |      |
| CONNECTOR XA437 CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |            |        |        |          |       |        |                  |     |               |                           |                    |                  |      |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA437  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 325

| RECORD NUMBER                                   | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS ANCHOR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH 70 | PREFIX | CONNECTOR | PIN | SH 70 | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |             |                  |       |                     |                    |                    |        |
| 15299   |        | XA437     | 19  |       | XA436  | 14        |     |       | 16B         | 9    |       |       | TRGP1A | 03     | TR6WAA   | 01          | 3                | TD4   | B2                  | 09B                |                    |        |
| 15482   |        | XA437     | 20  |       | XA436  | 18        |     |       | 16B         | 9    |       |       | TK04BR | 06     | TR6WAA   | 01          | 4                | TD4   | B2                  | 11A                |                    |        |
| 15560   |        | XA437     | 21  |       | XA439  | 20        |     |       | 16B         | 9    |       |       | TR6WAA | 04     | TR6WAA   | 00          | 1                | TD4   | B2                  | 10B                | IOX 5 + DEV ADD    |        |
| 15281   |        | XA437     | 22  |       |        |           |     |       |             |      |       |       | TR07BS | 02     | TR07BS   | 01          | 1                | TD4   | B1                  | 12A                |                    |        |
| 15514   |        | XA437     | 23  |       |        |           |     |       |             |      |       |       | TR07BS | 04     | TR07BS   | 00          | 1                | TD4   | B1                  | 11B                | REQ REG 8TH PRIQ   |        |
| 15212   |        | XA437     | 24  |       |        |           |     |       |             |      |       |       | TR6M6A | 02     | TR07BS   | 01          | 2                | TD4   | B1                  | 13A                |                    |        |
| 15400   |        | XA437     | 25  |       | XA436  | 07        |     |       | 16B         | 9    |       |       | TR06AA | 01     | TR07BS   | 01          | 3                | TD4   | B1                  | 12B                |                    |        |
| 15508   |        | XA437     | 26  |       | XA437  | 37        |     |       | 16B         | 9    |       |       | TR07BR | 02     | TR07BS   | 01          | 4                | TD4   | B1                  | 14A                |                    |        |
| 01518   |        | XA437     | 27  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |             |                  | TD4   |                     |                    |                    |        |
| 00629   |        | XA437     | 28  |       |        |           |     |       |             |      |       |       | +5V    | 01     |          |             |                  | TD4   |                     |                    |                    |        |
| 01519   |        | XA437     | 29  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |             |                  | TD4   |                     |                    |                    |        |
| 15527   |        | XA437     | 30  |       | XA436  | 31        |     |       | 16B         | 9    |       |       | TR09BS | 01     | TR9WAA   | 01          | 1                | TD4   | C2                  | 15A                |                    |        |
| 15306   |        | XA437     | 31  |       | XA436  | 25        |     |       | 16B         | 9    |       |       | TRGP2A | 03     | TR9WAA   | 01          | 2                | TD4   | C2                  | 15B                |                    |        |
| 02846   |        | XA437     | 32  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |             |                  | TD4   |                     | 21B                |                    |        |
| 15588   |        | XA437     | 33  |       | XA439  | 23        |     |       | 16B         | 9    |       |       | TR9WAA | 04     | TR9WAA   | 00          | 1                | TD4   | C2                  | 16B                | IOX 7 WIN AUCT     |        |
| 15312   |        | XA437     | 34  |       | XA439  | 07        |     |       | 16B         | 9    |       |       | TRGP3A | 02     | TR9WAA   | 01          | 3                | TD4   | C2                  | 16A                |                    |        |
| 15577   |        | XA437     | 35  |       | XA439  | 21        |     |       | 16B         | 9    |       |       | TR8WAA | 04     | TR8WAA   | 00          | 1                | TD4   | C1                  | 17B                | IOX WIN AUCT       |        |
| 15297   |        | XA437     | 36  |       | XA436  | 21        |     |       | 16B         | 9    |       |       | TRGP1A | 04     | TR9WAA   | 01          | 4                | TD4   | C2                  | 17A                |                    |        |
| 15509   |        | XA437     | 37  |       | XA412  | 33        |     |       | 16B         | 9    |       |       | TR07BR | 03     | TR8WAA   | 01          | 1                | TD4   | C1                  | 18B                |                    |        |
| 15519   |        | XA437     | 38  |       | XA436  | 36        |     |       | 16B         | 9    |       |       | TR08BS | 01     | TR8WAA   | 01          | 2                | TD4   | C1                  | 18A                |                    |        |
| 01520   |        | XA437     | 39  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |             |                  | TD4   |                     |                    |                    |        |
| 15305   |        | XA437     | 40  |       | XA437  | 31        |     |       | 16B         | 9    |       |       | TRGP2A | 02     | TR8WAA   | 01          | 3                | TD4   | C1                  | 19A                |                    |        |
| 01521   |        | XA437     | 41  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |             |                  | TD4   |                     |                    |                    |        |
| 15296   |        | XA437     | 42  |       | XA437  | 36        |     |       | 16B         | 9    |       |       | TRGP1A | 03     | TR8WAA   | 01          | 4                | TD4   | C1                  | 20A                |                    |        |
| 19980   |        | XA437     | 43  |       |        |           |     |       |             |      |       |       | XMR2WA | 02     | XMSS00   | 01          | 1                | TD4   | D2                  | 23B                |                    |        |
| 02847   |        | XA437     | 44  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |             |                  | TD4   |                     | 27A                |                    |        |
| 20007   |        | XA437     | 45  |       |        |           |     |       |             |      |       |       | XMSS00 | 02     | XMSS00   | 00          | 1                | TD4   | D2                  | 24B                |                    |        |
| 19983   |        | XA437     | 46  |       | XA437  | 52        |     |       | 16B         | 9    |       |       | XMR3WA | 01     | XMSS00   | 01          | 2                | TD4   | D2                  | 21A                |                    |        |
| 19900   |        | XA437     | 47  |       | XA414  | 38        |     |       | 16B         | 9    |       |       | XMLSD0 | 01     | XMLSD0   | 00          | 1                | TD4   | D1                  | 25B                |                    |        |
| 19998   |        | XA437     | 48  |       | XA432  | 23        |     |       | 16B         | 9    |       |       | XMR6WA | 02     | XMSS00   | 01          | 3                | TD4   | D2                  | 22A                |                    |        |
| 19976   |        | XA437     | 49  |       |        |           |     |       |             |      |       |       | XMR1WA | 02     | XMLSD0   | 01          | 1                | TD4   | D1                  | 26B                |                    |        |
| 20004   |        | XA437     | 50  |       | XA432  | 11        |     |       | 16B         | 9    |       |       | XMR7WA | 03     | XMSS00   | 01          | 4                | TD4   | D2                  | 23A                |                    |        |
| 01522   |        | XA437     | 51  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |             |                  | TD4   |                     |                    |                    |        |
| 19984   |        | XA437     | 52  |       | XA435  | 69        |     |       | 16B         | 9    |       |       | XMP3WA | 02     | XMLSD0   | 01          | 2                | TD4   | D1                  | 24A                |                    |        |
| 01523   |        | XA437     | 53  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |             |                  | TD4   |                     |                    |                    |        |
| 19993   |        | XA437     | 54  |       | XA432  | 35        |     |       | 16B         | 9    |       |       | XMR5WA | 02     | XMLSD0   | 01          | 3                | TD4   | D1                  | 25A                |                    |        |
| 15538   |        | XA437     | 55  |       | XA439  | 11        |     |       | 16B         | 9    |       |       | TR3WAA | 03     | TAR620   | 01          | 1                | TD4   | E2                  | 29B                |                    |        |
| 20003   |        | XA437     | 56  |       | XA437  | 50        |     |       | 16B         | 9    |       |       | XMR7WA | 02     | XMLSD0   | 01          | 4                | TD4   | D1                  | 26A                |                    |        |
| 08411   |        | XA437     | 57  |       | XA438  | 76        |     |       | 16B         | 9    |       |       | TAR620 | 01     | TAR620   | 00          | 1                | TD4   | E2                  | 30B                | DEV ADD 1+3+5+7    |        |
| 02848   |        | XA437     | 58  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |             |                  | TD4   |                     | 40A                |                    |        |
| 19903   |        | XA437     | 59  |       |        |           |     |       |             |      |       |       | XMMS00 | 02     | XMMS00   | 00          | 1                | TD4   | E1                  | 31B                |                    |        |
| 15533   |        | XA437     | 60  |       |        |           |     |       |             |      |       |       | TR1WAA | 02     | TAR620   | 01          | 2                | TD4   | E2                  | 28A                |                    |        |
| 19988   |        | XA437     | 61  |       | XA432  | 47        |     |       | 16B         | 9    |       |       | XMR4WA | 01     | XMMS00   | 01          | 1                | TD4   | E1                  | 32B                |                    |        |
| 15550   |        | XA437     | 62  |       | XA435  | 50        |     |       | 16B         | 9    |       |       | TR5WAA | 01     | TAR620   | 01          | 3                | TD4   | E2                  | 29A                |                    |        |
| 01524   |        | XA437     | 63  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |             |                  | TD4   |                     |                    |                    |        |
| 15569   |        | XA437     | 64  |       | XA435  | 70        |     |       | 16B         | 9    |       |       | TR7WAA | 05     | TAR620   | 01          | 4                | TD4   | E2                  | 30A                |                    |        |
| 01525   |        | XA437     | 65  |       |        |           |     |       |             |      |       |       | DNW    | 01     |          |             |                  | TD4   |                     |                    |                    |        |
| 19992   |        | XA437     | 66  |       | XA437  | 54        |     |       | 16B         | 9    |       |       | XMR5WA | 01     | XMMS00   | 01          | 2                | TD4   | E1                  | 31A                |                    |        |
| 02849   |        | XA437     | 67  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |             |                  | TD4   |                     | 40B                |                    |        |
| 19997   |        | XA437     | 68  |       | XA437  | 48        |     |       | 16B         | 9    |       |       | XMR6WA | 01     | XMMS00   | 01          | 3                | TD4   | E1                  | 32A                |                    |        |
| CONNECTOR XA437 CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |        |        |          |             |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA437  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 326

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OP | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07989   |        | XA437     | 69  |        |           |     |             |      |       |       | SPO    | 01     |          | 00   | 1      | TD4              | F2    |                     | 35A                |                    |        |
| 20002   |        | XA437     | 70  |        | XA437     | 56  |             |      | 16B   | 9     | XMR7MA | 01     | XMMS00   | 01   | 4      | T04              | E1    |                     | 33A                |                    |        |
| 05632   |        | XA437     | 71  |        | XA441     | 73  |             |      | 16B   | 9     | SPI026 | 24     |          | 01   | 1      | T04              | F2    |                     | 36A                |                    |        |
| 05966   |        | XA437     | 72  |        | XA436     | 71  |             |      | 16B   | 9     | SPI036 | 20     |          | 01   | 2      | T04              | F2    |                     | 34A                | E03                |        |
| 05996   |        | XA437     | 73  |        | XA436     | 72  |             |      | 16B   | 9     | SPI037 | 14     |          | 01   | 3      | T04              | F2    |                     | 36B                | E03                |        |
| 05917   |        | XA437     | 74  |        | XA436     | 65  |             |      | 16B   | 9     | SPI035 | 01     |          | 01   | 4      | T04              | F2    |                     | 35B                | E03                |        |
| 05967   |        | XA437     | 75  |        | XA440     | 15  |             |      | 16B   | 9     | TFI01A | 01     | TFI0UA   | 01   | 1      | TD4              | F1    |                     | 37B                | E03                |        |
| 07990   |        | XA437     | 76  |        | XA412     | 49  |             |      | 16B   | 9     | TFI0UA | 02     | TFI0UA   | 00   | 1      | TD4              | F1    |                     | 37A                | E03                |        |
| 05997   |        | XA437     | 77  |        | XA446     | 37  |             |      | 16B   | 9     | TFI0SA | 03     | TFI0UA   | 01   | 2      | TD4              | F1    |                     | 38B                | E03                |        |
| 05918   |        | XA437     | 78  |        | XA440     | 11  |             |      | 16B   | 9     | TFI0CO | 02     | TFI0UA   | 01   | 3      | TD4              | F1    |                     | 38A                | E03                |        |
| 05631   |        | XA437     | 79  |        |           |     |             |      |       |       | ZDDDR1 | 06     | TFI0UA   | 01   | 4      | TD4              | F1    |                     | 39B                | E03                |        |
| 01526   |        | XA437     | 8C  |        |           |     |             |      |       |       | DNW    | 01     |          |      |        | TD4              |       |                     |                    |                    |        |
| 15200   |        | XA438     | 01  |        |           |     |             |      |       |       | TRBMOA | 02     | TRBMOA   | 00   | 1      | TQ2              | A2    |                     | 02B                | SET REQ BURST MC   |        |
| 02850   |        | XA438     | 02  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 09957   |        | XA438     | 03  |        | XA428     | 42  |             |      | 16B   | 9     | TCS1A0 | 02     | TRBMLA   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 15709   |        | XA438     | 04  |        | XA438     | 07  |             |      | 16B   | 9     | TS0BR0 | 01     | TRBMOA   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 09937   |        | XA438     | 05  |        | XA443     | 03  |             |      | 16B   | 9     | TCSXMA | 10     | TRBMOA   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 12921   |        | XA438     | 06  |        | XA426     | 65  |             |      | 16B   | 9     | TFI0CA | 01     | TFI0CA   | 00   | 1      | TQ2              | A1    |                     | 05A                | INH REST TL I/OIDL |        |
| 15710   |        | XA438     | 07  |        | XA438     | 13  |             |      | 16B   | 9     | TS0BR0 | 02     | TRBMLA   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 12918   |        | XA438     | 08  |        | XA440     | 33  |             |      | 16B   | 9     | TFI0AS | 02     | TFI0CA   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 15202   |        | XA438     | 09  |        |           |     |             |      |       |       | TRBMLA | 02     | TRBMLA   | 00   | 1      | TQ2              | A3    |                     | 04B                | SET REQ BURST MC   |        |
| 15744   |        | XA438     | 10  |        | XA339     | 19  |             |      | 16B   | 9     | TS00BQ | 01     | TFI0CA   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 09969   |        | XA438     | 11  |        | XA428     | 54  |             |      | 16B   | 9     | TCS2A0 | 02     | TRBM2A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00630   |        | XA438     | 12  |        |           |     |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 15711   |        | XA438     | 13  |        | XA438     | 17  |             |      | 16B   | 9     | TS0BR0 | 03     | TRBM2A   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 15208   |        | XA438     | 14  |        |           |     |             |      |       |       | TRBM4A | 02     | TRBM4A   | 00   | 1      | TQ2              | B2    |                     | 09A                | SET REQ BURST MC   |        |
| 15204   |        | XA438     | 15  |        |           |     |             |      |       |       | TRBM2A | 02     | TRBM2A   | 00   | 1      | TQ2              | A4    |                     | 07B                | SET REQ BURST MC   |        |
| 02851   |        | XA438     | 16  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 15712   |        | XA438     | 17  |        | XA438     | 18  |             |      | 16B   | 9     | TS0BR0 | 04     | TRBM5A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 15713   |        | XA438     | 18  |        | XA438     | 24  |             |      | 16B   | 9     | TS0BR0 | 05     | TRBM4A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 10005   |        | XA438     | 19  |        | XA428     | 43  |             |      | 16B   | 9     | TCS5A0 | 02     | TRBM5A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 09993   |        | XA438     | 20  |        | XA428     | 46  |             |      | 16B   | 9     | TCS4A0 | 02     | TRBM4A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 15209   |        | XA438     | 21  |        | XA435     | 36  |             |      | 16B   | 9     | TRBM5A | 01     | TRBM5A   | 00   | 1      | TQ2              | B3    |                     | 10B                | SET REQ BURST MC   |        |
| 15205   |        | XA438     | 22  |        | XA435     | 14  |             |      | 16B   | 9     | TRBM3A | 01     | TRBM3A   | 00   | 1      | TQ2              | B1    |                     | 12A                | SET REQ BURST MC   |        |
| 10017   |        | XA438     | 23  |        | XA428     | 49  |             |      | 16B   | 9     | TCS6A0 | 02     | TRBM6A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 15714   |        | XA438     | 24  |        | XA438     | 25  |             |      | 16B   | 9     | TS0BR0 | 06     | TRBM3A   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 15715   |        | XA438     | 25  |        | XA431     | 70  |             |      | 16B   | 9     | TS0BR0 | 07     | TRBM6A   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 09981   |        | XA438     | 26  |        | XA428     | 48  |             |      | 16B   | 9     | TCS3A0 | 02     | TRBM3A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 15211   |        | XA438     | 27  |        | XA437     | 24  |             |      | 16B   | 9     | TRBM6A | 01     | TRBM6A   | 00   | 1      | TQ2              | B4    |                     | 13B                | SET REQ BURST MC   |        |
| 00631   |        | XA438     | 28  |        |           |     |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 19917   |        | XA438     | 29  |        | XA435     | 72  |             |      | 16B   | 9     | XMR01R | 01     | XMR01S   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 19945   |        | XA438     | 30  |        | XA435     | 74  |             |      | 16B   | 9     | XMR03S | 02     | XMR03S   | 00   | 1      | TQ2              | C2    |                     | 15A                |                    |        |
| 19973   |        | XA438     | 31  |        | XA431     | 01  |             |      | 16B   | 9     | XMR1SA | 01     | XMR01S   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 02852   |        | XA438     | 32  |        |           |     |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 19927   |        | XA438     | 33  |        |           |     |             |      |       |       | XMR01S | 03     | XMR01S   | 00   | 1      | TQ2              | C3    |                     | 16B                |                    |        |
| 19943   |        | XA438     | 34  |        |           |     |             |      |       |       | XMR03R | 06     | XMR03S   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 19928   |        | XA438     | 35  |        | XA435     | 73  |             |      | 16B   | 9     | XMR02R | 01     | XMR02S   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 19982   |        | XA438     | 36  |        |           |     |             |      |       |       | XMR3SA | 02     | XMR03S   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| CONNECTOR XA438 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA438  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 327

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |      |       | SIGNAL  | SEQ NO | EQUATION | TURN | FACTORY | CKT OR CHAS TYPE | SIGN | LOAD OF POWER PLANE | TEST POINTS (END OF) | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|------|-------|---------|--------|----------|------|---------|------------------|------|---------------------|----------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COIL | IDENT |         |        |          |      |         |                  |      |                     |                      |                    |        |
| 19978   | XA438  |           | 37  |        |           |     |             |      |      |       | XMR2SA  | 02     | XMP02S   | 01   | 2       | TQ2              | C4   |                     | 18B                  |                    |        |
| 19916   | XA438  |           | 38  |        |           |     |             |      |      |       | XMR00S  | 02     | XMR00S   | 00   | 1       | TQ2              | C1   |                     | 18A                  |                    |        |
| 19936   | XA438  |           | 39  |        | XA434     | 72  |             | 16B  | 9    |       | XMR02S  | 02     | XMR02S   | 00   | 1       | TQ2              | C4   |                     | 19B                  |                    |        |
| 19911   | XA438  |           | 40  |        | XA434     | 65  |             | 16B  | 9    |       | XMR00R  | 06     | XMR00S   | 01   | 1       | TQ2              | C1   |                     | 19A                  |                    |        |
| 19958   | XA438  |           | 41  |        |           |     |             |      |      |       | XMR05R  | 04     | XMR05S   | 01   | 1       | TQ2              | D3   |                     | 22B                  |                    |        |
| 19905   | XA438  |           | 42  |        |           |     |             |      |      |       | XMR0SA  | 02     | XMR00S   | 01   | 2       | TQ2              | C1   |                     | 20A                  |                    |        |
| 19991   | XA438  |           | 43  |        |           |     |             |      |      |       | XMR5SA  | 02     | XMR05S   | 01   | 2       | TQ2              | D3   |                     | 23B                  |                    |        |
| 02853   | XA438  |           | 44  |        |           |     |             |      |      |       | GND     | 01     |          |      |         | TQ2              |      |                     | 21B                  |                    |        |
| 19961   | XA438  |           | 45  |        |           |     |             |      |      |       | XMR05S  | 03     | XMR05S   | 00   | 1       | TQ2              | D3   |                     | 24B                  |                    |        |
| 19954   | XA438  |           | 46  |        |           |     |             |      |      |       | XMR04S  | 03     | XMR04S   | 00   | 1       | TQ2              | D2   |                     | 21A                  |                    |        |
| 19962   | XA438  |           | 47  |        | XA431     | 45  |             | 16B  | 9    |       | XMR06R  | 01     | XMR06S   | 01   | 1       | TQ2              | D4   |                     | 25B                  |                    |        |
| 19947   | XA438  |           | 48  |        | XA431     | 52  |             | 16B  | 9    |       | XMR04R  | 01     | XMR04S   | 01   | 1       | TQ2              | D2   |                     | 22A                  |                    |        |
| 19996   | XA438  |           | 49  |        |           |     |             |      |      |       | XMR6SA  | 02     | XMR06S   | 01   | 2       | TQ2              | D4   |                     | 26B                  |                    |        |
| 19987   | XA438  |           | 50  |        |           |     |             |      |      |       | XMR4SA  | 02     | XMR04S   | 01   | 2       | TQ2              | D2   |                     | 23A                  |                    |        |
| 19967   | XA438  |           | 51  |        |           |     |             |      |      |       | XMR06S  | 03     | XMR06S   | 00   | 1       | TQ2              | D4   |                     | 27B                  |                    |        |
| 19972   | XA438  |           | 52  |        |           |     |             |      |      |       | XMR07S  | 03     | XMR07S   | 00   | 1       | TQ2              | D1   |                     | 24A                  |                    |        |
| 15455   | XA438  |           | 53  |        | XA437     | 05  |             | 16B  | 9    |       | TR01BS  | 01     | TR1WAA   | 01   | 1       | TQ2              | E3   |                     | 28B                  |                    |        |
| 19968   | XA438  |           | 54  |        | XA431     | 51  |             | 16B  | 9    |       | XMR07R  | 01     | XMR07S   | 01   | 1       | TQ2              | D1   |                     | 25A                  |                    |        |
| 15442   | XA438  |           | 55  |        |           |     |             |      |      |       | TR00BR  | 06     | TR1WAA   | 01   | 2       | TQ2              | E3   |                     | 29B                  |                    |        |
| 20001   | XA438  |           | 56  |        |           |     |             |      |      |       | XMR7SA  | 02     | XMR07S   | 01   | 2       | TQ2              | D1   |                     | 26A                  |                    |        |
| 15532   | XA438  |           | 57  |        | XA437     | 60  |             | 16B  | 9    |       | TR1WAA  | 01     | TR1WAA   | 00   | 1       | TQ2              | E3   |                     | 30B                  | CCC + DEV ADD 1    |        |
| 02854   | XA438  |           | 58  |        |           |     |             |      |      |       | GND     | 01     |          |      |         | TQ2              |      |                     | 27A                  |                    |        |
| 15488   | XA438  |           | 59  |        |           |     |             |      |      |       | TR04BS  | 04     | TR4WAA   | 01   | 1       | TQ2              | E4   |                     | 31B                  |                    |        |
| 15315   | XA438  |           | 60  |        |           |     |             |      |      |       | TRGP30  | 02     | TRGP30   | 00   | 1       | TQ2              | E2   |                     | 28A                  | REQ GRP 3-0        |        |
| 15295   | XA438  |           | 61  |        | XA437     | 42  |             | 16B  | 9    |       | TRGP1A  | 02     | TR4WAA   | 01   | 2       | TQ2              | E4   |                     | 32B                  |                    |        |
| 15507   | XA438  |           | 62  |        | XA437     | 26  |             | 16B  | 9    |       | TRO7BR  | 01     | TRGP30   | 01   | 1       | TQ2              | E2   |                     | 29A                  |                    |        |
| 15545   | XA438  |           | 63  |        | XA435     | 60  |             | 16B  | 9    |       | TR4WAA  | 03     | TR4WAA   | 00   | 1       | TQ2              | E4   |                     | 33B                  | IGX 3 + DEV ADD    |        |
| 15518   | XA438  |           | 64  |        |           |     |             |      |      |       | TRO8BR  | 03     | TRGP30   | 01   | 2       | TQ2              | E2   |                     | 30A                  |                    |        |
| 09591   | XA438  |           | 65  |        | XA407     | 72  |             | 16B  | 9    |       | TCB300  | 02     | TA054A   | 01   | 1       | TQ2              | F3   |                     | 34B                  |                    |        |
| 15280   | XA438  |           | 66  |        | XA437     | 22  |             | 16B  | 9    |       | TRDA7A  | 01     | TRDA7A   | 00   | 1       | TQ2              | E1   |                     | 31A                  | REQ, DEVICE 7      |        |
| 02855   | XA438  |           | 67  |        |           |     |             |      |      |       | GND     | 01     |          |      |         | TQ2              |      |                     | 40A                  |                    |        |
| 10945   | XA438  |           | 68  |        | XA425     | 21  |             | 16B  | 9    |       | TD17A0  | 01     | TRDA7A   | 01   | 1       | TQ2              | E1   |                     | 32A                  |                    |        |
| 08675   | XA438  |           | 69  |        |           |     |             |      |      |       | TA054A  | 02     | TA054A   | 00   | 1       | TQ2              | F3   |                     | 35A                  | ADD GF CMD TO AD   |        |
| 15809   | XA438  |           | 70  |        | XA431     | 73  |             | 16B  | 9    |       | TS02A0  | 03     | TRDA7A   | 01   | 2       | TQ2              | E1   |                     | 33A                  |                    |        |
| 20565   | XA438  |           | 71  |        |           |     |             |      |      |       | WRSTCA4 | 03     | KSWRSS   | 01   | 1       | TQ2              | F2   |                     | 36A                  |                    |        |
| 04347   | XA438  |           | 72  |        |           |     |             |      |      |       | KSWRSS  | 02     | KSWRSS   | 00   | 1       | TQ2              | F2   |                     | 34A                  | RESTART SW         |        |
| 04344   | XA438  |           | 73  |        | XA425     | 50  |             | 16B  | 9    |       | KSWRSR  | 02     | KSWRSS   | 01   | 2       | TQ2              | F2   |                     | 36B                  |                    |        |
| 09878   | XA438  |           | 74  |        |           |     |             |      |      |       | TCPD40  | 09     | TA054A   | 01   | 2       | TQ2              | F3   |                     | 35B                  |                    |        |
| 08672   | XA438  |           | 75  |        | XA436     | 53  |             | 16B  | 9    |       | TA052A  | 01     | TA052A   | 00   | 1       | TQ2              | F1   |                     | 37B                  | AUCT TO BIT 5 AD   |        |
| 08412   | XA438  |           | 76  |        |           |     |             |      |      |       | TAR620  | 02     | TA062A   | 01   | 1       | TQ2              | F4   |                     | 37A                  |                    |        |
| 08409   | XA438  |           | 77  |        | XA435     | 76  |             | 16B  | 9    |       | TAR520  | 01     | TA052A   | 01   | 1       | TQ2              | F1   |                     | 38B                  |                    |        |
| 16488   | XA438  |           | 78  |        | XA440     | 61  |             | 16B  | 9    |       | TS3M00  | 02     | TA062A   | 01   | 2       | TQ2              | F4   |                     | 38A                  |                    |        |
| 16487   | XA438  |           | 79  |        | XA438     | 78  |             | 16B  | 9    |       | TS3M00  | 01     | TA052A   | 01   | 2       | TQ2              | F1   |                     | 39B                  |                    |        |
| 08694   | XA438  |           | 80  |        | XA436     | 57  |             | 16B  | 9    |       | TA062A  | 01     | TA062A   | 00   | 1       | TQ2              | F4   |                     | 39A                  | AUCT TO BIT 6 AD   |        |
| 15308   | XA439  |           | 01  |        |           |     |             |      |      |       | TRGP2A  | 05     | TRGP2A   | 00   | 1       | THI              | A4   |                     | 02B                  | REQ GRP 2-A        |        |
| 02856   | XA439  |           | 02  |        |           |     |             |      |      |       | GND     | 01     |          |      |         | THI              |      |                     | 01A                  |                    |        |
| 15301   | XA439  |           | 03  |        |           |     |             |      |      |       | TRGP1A  | 08     | TRGP1A   | 00   | 1       | THI              | A3   |                     | 03A                  | REQ GRP 1-A        |        |
| 15303   | XA439  |           | 04  |        |           |     |             |      |      |       | TRGP10  | 02     | TRGP1A   | 01   | 1       | THI              | A3   |                     | 02A                  |                    |        |
| CONNECTOR (XA439) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |      |       |         |        |          |      |         |                  |      |                     |                      |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA439  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 328

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       | SPEC. INST. DEVICE | SIGNAL | SEG NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GRP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|--------------------|--------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLCH |                    |        |        |          |      |        |                  |     |                     |                    |                    |        |
| 15309   |        | XA439     | 05  |        | XA436     | 04  |             | 16B  | 9     |                    | TRGP20 | 01     | TRGP2A   | 01   | 1      | THI              | A4  |                     | 03B                |                    |        |
| 10783   |        | XA439     | 06  |        | XA437     | 74  |             | 16B  | 9     |                    | SP1035 | 00     |          | 01   | 1      | THI              | A2  |                     | 05A                |                    | C10    |
| 15313   |        | XA439     | 07  |        |           |     |             |      |       |                    | TRGP3A | 03     | TRGP3A   | 00   | 1      | THI              | A5  |                     | 04B                | REQ GRP 3-A        |        |
| 10776   |        | XA439     | 08  |        |           |     |             |      |       |                    | SPO    | 01     |          | 00   | 1      | THI              | A2  |                     | 04A                |                    | C10    |
| 15314   |        | XA439     | 09  |        | XA438     | 60  |             | 16B  | 9     |                    | TRGP30 | 01     | TRGP3A   | 01   | 1      | THI              | A5  |                     | 05B                |                    |        |
| 15549   |        | XA439     | 10  |        |           |     |             |      |       |                    | TR4WAO | 02     | TR4WAO   | 00   | 1      | THI              | A6  |                     | 06B                | IOX 3 + DEV ADD    |        |
| 15539   |        | XA439     | 11  |        | XA441     | 11  |             | 16B  | 9     |                    | TR3WAA | 04     | TR3WAO   | 01   | 1      | THI              | A1  |                     | 07A                |                    |        |
| 00632   |        | XA439     | 12  |        |           |     |             |      |       |                    | +5V    | 01     |          |      |        | THI              |     |                     |                    |                    |        |
| 15542   |        | XA439     | 13  |        |           |     |             |      |       |                    | TR3WAO | 02     | TR3WAO   | 00   | 1      | THI              | A1  |                     | 06A                | IOX 2 + DEV ADD    |        |
| 15573   |        | XA439     | 14  |        |           |     |             |      |       |                    | TR7WAO | 02     | TR7WAO   | 00   | 1      | THI              | B4  |                     | 08B                | IOX 6 + DEV ADD    |        |
| 15544   |        | XA439     | 15  |        | XA438     | 63  |             | 16B  | 9     |                    | TR4WAA | 02     | TR4WAO   | 01   | 1      | THI              | A6  |                     | 07B                |                    |        |
| 02857   |        | XA439     | 16  |        |           |     |             |      |       |                    | GND    | 01     |          |      |        | THI              |     |                     | 20B                |                    |        |
| 15566   |        | XA439     | 17  |        | XA436     | 27  |             | 16B  | 9     |                    | TR7WAA | 02     | TR7WAO   | 01   | 1      | THI              | B4  |                     | 09B                |                    |        |
| 15564   |        | XA439     | 18  |        |           |     |             |      |       |                    | TR6WAO | 02     | TR6WAO   | 00   | 1      | THI              | B3  |                     | 09A                | IOX 5 + DEV ADD    |        |
| 15580   |        | XA439     | 19  |        | XA440     | 42  |             | 16B  | 9     |                    | TR8WAO | 02     | TR8WAO   | 00   | 1      | THI              | B5  |                     | 10B                | IOX 6 WIN AUCT     |        |
| 15561   |        | XA439     | 20  |        | XA441     | 04  |             | 16B  | 9     |                    | TR6WAA | 05     | TR6WAO   | 01   | 1      | THI              | B3  |                     | 10A                |                    |        |
| 15578   |        | XA439     | 21  |        |           |     |             |      |       |                    | TR8WAA | 05     | TR8WAO   | 01   | 1      | THI              | B5  |                     | 11B                |                    |        |
| 15553   |        | XA439     | 22  |        | XA441     | 01  |             | 16B  | 9     |                    | TR5WAA | 04     | TR5WAO   | 01   | 1      | THI              | B1  |                     | 14A                |                    |        |
| 15589   |        | XA439     | 23  |        |           |     |             |      |       |                    | TR9WAA | 05     | TR9WAO   | 01   | 1      | THI              | B2  |                     | 12A                |                    |        |
| 15556   |        | XA439     | 24  |        |           |     |             |      |       |                    | TR5WAO | 02     | TR5WAO   | 00   | 1      | THI              | B1  |                     | 13A                | IOX 4 + DEV ADD    |        |
| 15591   |        | XA439     | 25  |        |           |     |             |      |       |                    | TR9WAO | 02     | TR9WAO   | 00   | 1      | THI              | B2  |                     | 11A                | IOX 7 WIN AUCT     |        |
| 08545   |        | XA439     | 26  |        |           |     |             |      |       |                    | TA00CA | 02     | TA00CA   | 00   | 1      | THI              | B6  |                     | 12B                | ADD REG 0 UNLOAD   |        |
| 08542   |        | XA439     | 27  |        | XA442     | 13  |             | 16B  | 9     |                    | TA00BQ | 04     | TA00CA   | 01   | 1      | THI              | B6  |                     | 13B                |                    |        |
| 00633   |        | XA439     | 28  |        |           |     |             |      |       |                    | +5V    | 01     |          |      |        | THI              |     |                     |                    |                    |        |
| 09879   |        | XA439     | 29  |        | XA441     | 23  |             | 16B  | 9     |                    | TCSCCA | 01     | TCSCCO   | 01   | 1      | THI              | C4  |                     | 15B                |                    |        |
| 09889   |        | XA439     | 30  |        |           |     |             |      |       |                    | TCSCCO | 09     | TCSCCO   | 00   | 1      | THI              | C4  |                     | 14B                | CH SEL CCC         |        |
| 12937   |        | XA439     | 31  |        | XA437     | 77  |             | 16B  | 9     |                    | TF10SA | 02     | TF10SA   | 00   | 1      | THI              | C5  |                     | 16B                |                    | E03    |
| 02858   |        | XA439     | 32  |        |           |     |             |      |       |                    | GND    | 01     |          |      |        | THI              |     |                     | 21B                |                    |        |
| 12941   |        | XA439     | 33  |        | XA425     | 45  |             | 16B  | 9     |                    | TF10S0 | 03     | TF10SA   | 01   | 1      | THI              | C5  |                     | 17B                |                    |        |
| 09719   |        | XA439     | 34  |        | XA446     | 56  |             | 16B  | 9     |                    | TCEN10 | 01     | TCEN10   | 00   | 1      | THI              | C3  |                     | 15A                | (COMMAND + ENABL   |        |
| 10587   |        | XA439     | 35  |        |           |     |             |      |       |                    | TDA0BA | 02     | TDA0B0   | 01   | 1      | THI              | C2  |                     | 18A                |                    |        |
| 09717   |        | XA439     | 36  |        | XA443     | 01  |             | 16B  | 9     |                    | TCEN1A | 01     | TCEN10   | 01   | 1      | THI              | C3  |                     | 16A                |                    |        |
| 10589   |        | XA439     | 37  |        | XA140     | 35  |             | 16B  | 9     |                    | TDA0B0 | 02     | TDA0B0   | 00   | 1      | THI              | C2  |                     | 17A                | ADD 0              |        |
| 10733   |        | XA439     | 38  |        | XA434     | 20  |             | 16B  | 9     |                    | TDIPAO | 01     | TDIPBA   | 01   | 1      | THI              | C1  |                     | 20A                |                    |        |
| 10592   |        | XA439     | 39  |        |           |     |             |      |       |                    | TDALBA | 02     | TDALB0   | 01   | 1      | THI              | C6  |                     | 19B                |                    |        |
| 10738   |        | XA439     | 40  |        | XA304     | 08  |             | 16B  | 9     |                    | TDIPBA | 01     | TDIPBA   | 00   | 1      | THI              | C1  |                     | 19A                | (COMMAND + ENABL   |        |
| 10609   |        | XA439     | 41  |        |           |     |             |      |       |                    | TDA4BA | 02     | TDA4B0   | 01   | 1      | THI              | D4  |                     | 23B                |                    |        |
| 10595   |        | XA439     | 42  |        |           |     |             |      |       |                    | TDA1B0 | 03     | TDA1B0   | 00   | 1      | THI              | C6  |                     | 18B                | ADD 1              |        |
| 10615   |        | XA439     | 43  |        |           |     |             |      |       |                    | TDA5B0 | 02     | TDA5B0   | 00   | 1      | THI              | D5  |                     | 24B                | ADD 5              |        |
| 02859   |        | XA439     | 44  |        |           |     |             |      |       |                    | GND    | 01     |          |      |        | THI              |     |                     | 27A                |                    |        |
| 10613   |        | XA439     | 45  |        |           |     |             |      |       |                    | TDA5BA | 02     | TDA5B0   | 01   | 1      | THI              | D5  |                     | 25B                |                    |        |
| 10611   |        | XA439     | 46  |        |           |     |             |      |       |                    | TDA4B0 | 02     | TDA4B0   | 00   | 1      | THI              | D4  |                     | 22B                | ADD 4              |        |
| 10617   |        | XA439     | 47  |        |           |     |             |      |       |                    | TDA6BA | 02     | TDA6B0   | 01   | 1      | THI              | D2  |                     | 24A                |                    |        |
| 10604   |        | XA439     | 48  |        | XA215     | 70  |             | 16B  | 9     |                    | TDA3B0 | 02     | TDA3B0   | 00   | 1      | THI              | D3  |                     | 21A                | ADD 3              |        |
| 10619   |        | XA439     | 49  |        |           |     |             |      |       |                    | TDA6B0 | 02     | TDA6B0   | 00   | 1      | THI              | D2  |                     | 23A                | ADD 6              |        |
| 10602   |        | XA439     | 50  |        |           |     |             |      |       |                    | TDA3BA | 02     | TDA3B0   | 01   | 1      | THI              | D3  |                     | 22A                |                    |        |
| 10621   |        | XA439     | 51  |        |           |     |             |      |       |                    | TDA7BA | 02     | TDA7B0   | 01   | 1      | THI              | D6  |                     | 27B                |                    |        |
| 10597   |        | XA439     | 52  |        |           |     |             |      |       |                    | TDA2BA | 02     | TDA2B0   | 01   | 1      | THI              | D1  |                     | 26A                |                    |        |
| 10623   |        | XA439     | 53  |        |           |     |             |      |       |                    | TDA7B0 | 02     | TDA7B0   | 00   | 1      | THI              | D6  |                     | 26B                | ADD 7              |        |
| 10600   |        | XA439     | 54  |        |           |     |             |      |       |                    | TDA2B0 | 03     | TDA2B0   | 00   | 1      | THI              | D1  |                     | 25A                | ADD 2              |        |
| CONNECTOR XA439 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |                    |        |        |          |      |        |                  |     |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA439  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 329

| RECORD NUMBER | FROM   |           |     |     | TO     |           |     |     | WIRE        |      | SFC INST. WIRE | SIGNAL | SEQ NO  | EQUATION | TERM FACTOR | CHK OP. CHIP TYPE | GROUP | LOAD GR. POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |                    |
|---------------|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|----------------|--------|---------|----------|-------------|-------------------|-------|----------------------|--------------------|--------------------|--------|--------------------|
|               | PREFIX | CONNECTOR | PIN | DIR | PREFIX | CONNECTOR | PIN | DIR | MULTI GROUP | CODE |                |        |         |          |             |                   |       |                      |                    |                    |        | COLOR              |
| 17512         | XA439  | 55        |     |     | XA432  | 55        |     |     |             | 16B  | 9              |        | XAIRCD4 | 01       | XAIRCO      | 01                | 1     | THI                  | E4                 |                    | 29B    |                    |
| 17515         | XA439  | 56        |     |     | XA431  | 08        |     |     |             | 16B  | 9              |        | XAIRCO  | 01       | XAIRCO      | 00                | 1     | THI                  | E4                 |                    | 28B    |                    |
| 10750         | XA439  | 57        |     |     |        |           |     |     |             |      |                |        | TDIOAA  | 02       | TDIOAA      | 00                | 1     | THI                  | E5                 |                    | 30B    |                    |
| 02860         | XA439  | 58        |     |     |        |           |     |     |             |      |                |        | GND     | 01       |             |                   |       | THI                  |                    |                    | 40A    |                    |
| 10756         | XA439  | 59        |     |     | XA431  | 62        |     |     |             | 16B  | 9              |        | TDIOAA  | 01       | TDIOAA      | 01                | 1     | THI                  | E5                 |                    | 31B    |                    |
| 04617         | XA439  | 60        |     |     |        |           |     |     |             |      |                |        | RDEV30  | 07       | RDEV30      | 00                | 1     | THI                  | E3                 |                    | 28A    | DEV ADDRESS 03     |
| 05962         | XA439  | 61        |     |     | XA436  | 62        |     |     |             | 16B  | 9              |        | SPI036  | 16       |             |                   |       | THI                  | E2                 |                    | 31A    |                    |
| 10702         | XA439  | 62        |     |     | XA206  | 63        |     |     |             | 16B  | 9              |        | TDEV3A  | 01       | RDEV30      | 01                | 1     | THI                  | E3                 |                    | 29A    |                    |
| 07991         | XA439  | 63        |     |     |        |           |     |     |             |      |                |        | SPO     | 01       |             |                   |       | THI                  | E2                 |                    | 30A    |                    |
| 15658         | XA439  | 64        |     |     |        |           |     |     |             |      |                |        | TS1A8A  | 08       | TSS100      | 01                | 1     | THI                  | E1                 |                    | 33A    | B05                |
| 10810         | XA439  | 65        |     |     | XA431  | 59        |     |     |             | 16B  | 9              |        | TDI2A0  | 01       | TDI2AA      | 01                | 1     | THI                  | E6                 |                    | 33B    |                    |
| 15661         | XA439  | 66        |     |     |        |           |     |     |             |      |                |        | TSS100  | 02       | TSS100      | 00                | 1     | THI                  | E1                 |                    | 32A    | START TO CPU B05   |
| 02861         | XA439  | 67        |     |     |        |           |     |     |             |      |                |        | GND     | 01       |             |                   |       | THI                  |                    |                    |        |                    |
| 10803         | XA439  | 68        |     |     | XA444  | 19        |     |     |             | 16B  | 9              |        | TDI2AA  | 01       | TDI2AA      | 00                | 1     | THI                  | E6                 |                    | 32B    |                    |
| 18754         | XA439  | 69        |     |     | XA432  | 62        |     |     |             | 16B  | 9              |        | XDIRCD4 | 01       | XDIRCO      | 01                | 1     | THI                  | F3                 |                    | 35B    |                    |
| 18757         | XA439  | 70        |     |     | XA431  | 11        |     |     |             | 16B  | 9              |        | XDIRCO  | 01       | XDIRCO      | 00                | 1     | THI                  | F3                 |                    | 34B    |                    |
| 18343         | XA439  | 71        |     |     | XA431  | 03        |     |     |             | 16B  | 9              |        | XCIRCO  | 01       | XCIRCO      | 00                | 1     | THI                  | F2                 |                    | 36B    |                    |
| 19171         | XA439  | 72        |     |     | XA431  | 24        |     |     |             | 16B  | 9              |        | XEIRCO  | 01       | XEIRCO      | 00                | 1     | THI                  | F4                 |                    | 34A    |                    |
| 18340         | XA439  | 73        |     |     | XA432  | 61        |     |     |             | 16B  | 9              |        | XCIRCD4 | 01       | XCIRCO      | 01                | 1     | THI                  | F2                 |                    | 37B    |                    |
| 19170         | XA439  | 74        |     |     |        |           |     |     |             |      |                |        | XEIRCD4 | 03       | XEIRCO      | 01                | 1     | THI                  | F4                 |                    | 35A    |                    |
| 19503         | XA439  | 75        |     |     |        |           |     |     |             |      |                |        | XGIRCD4 | 03       | XGIRCO      | 01                | 1     | THI                  | F6                 |                    | 39A    |                    |
| 19496         | XA439  | 76        |     |     | XA432  | 66        |     |     |             | 16B  | 9              |        | XFIRCD4 | 01       | XFIRCO      | 01                | 1     | THI                  | F5                 |                    | 37A    |                    |
| 19504         | XA439  | 77        |     |     | XA431  | 17        |     |     |             | 16B  | 9              |        | XGIRCO  | 01       | XGIRCO      | 00                | 1     | THI                  | F6                 |                    | 38A    |                    |
| 19499         | XA439  | 78        |     |     | XA431  | 18        |     |     |             | 16B  | 9              |        | XFIRCO  | 01       | XFIRCO      | 00                | 1     | THI                  | F5                 |                    | 36A    |                    |
| 17926         | XA439  | 79        |     |     | XA432  | 60        |     |     |             | 16B  | 9              |        | XBIRCD4 | 01       | XBIRCO      | 01                | 1     | THI                  | F1                 |                    | 39B    |                    |
| 17929         | XA439  | 80        |     |     | XA431  | 04        |     |     |             | 16B  | 9              |        | XBIRCO  | 01       | XBIRCO      | 00                | 1     | THI                  | F1                 |                    | 38B    |                    |
| 09153         | XA440  | 01        |     |     | XA427  | 03        |     |     |             | 16B  | 9              |        | TBSTS0  | 01       | TBSTS0      | 00                | 1     | TQ2                  | A2                 |                    | 02B    | WRITE CONTROL PA   |
| 02862         | XA440  | 02        |     |     |        |           |     |     |             |      |                |        | GND     | 01       |             |                   |       | TQ2                  |                    |                    | 01A    |                    |
| 10656         | XA440  | 03        |     |     | XA334  | 11        |     |     |             | 16B  | 9              |        | TDC420  | 02       | TDC41A      | 01                | 1     | TQ2                  | A3                 |                    | 02A    |                    |
| 09188         | XA440  | 04        |     |     | XA345  | 22        |     |     |             | 16B  | 9              |        | TBST2A  | 01       | TBSTS0      | 01                | 1     | TQ2                  | A2                 |                    | 04A    |                    |
| 04338         | XA440  | 05        |     |     | XA433  | 10        |     |     |             | 16B  | 9              |        | KSWB1R  | 04       | TBSTS0      | 01                | 2     | TQ2                  | A2                 |                    | 03B    |                    |
| 15215         | XA440  | 06        |     |     | XA434  | 10        |     |     |             | 16B  | 9              |        | TRCCCA  | 01       | TRCCCA      | 00                | 1     | TQ2                  | A1                 |                    | 05A    |                    |
| 13680         | XA440  | 07        |     |     | XA335  | 46        |     |     |             | 16B  | 9              |        | TKAABB  | 01       | TDC41A      | 01                | 2     | TQ2                  | A3                 |                    | 03A    |                    |
| 15729         | XA440  | 08        |     |     | XA436  | 03        |     |     |             | 16B  | 9              |        | TS00A0  | 06       | TRCCCA      | 01                | 1     | TQ2                  | A1                 |                    | 06A    |                    |
| 10654         | XA440  | 09        |     |     |        |           |     |     |             |      |                |        | TDC41A  | 07       | TDC41A      | 00                | 1     | TQ2                  | A3                 |                    | 04B    | CLOCK INPJT TD24   |
| 04675         | XA440  | 10        |     |     | XA444  | 35        |     |     |             | 16B  | 9              |        | RRQST0  | 01       | TRCCCA      | 01                | 2     | TQ2                  | A1                 |                    | 07A    |                    |
| 12930         | XA440  | 11        |     |     | XA446  | 18        |     |     |             | 16B  | 9              |        | TFI0C0  | 03       | TFI0TA      | 01                | 1     | TQ2                  | A4                 |                    | 05B    | B05                |
| 00634         | XA440  | 12        |     |     |        |           |     |     |             |      |                |        | +5V     | 01       |             |                   |       | TQ2                  |                    |                    |        |                    |
| 03790         | XA440  | 13        |     |     | XA337  | 75        |     |     |             | 16B  | 9              |        | JPKFSB4 | 01       | TFI0TA      | 01                | 2     | TQ2                  | A4                 |                    | 06B    |                    |
| 07992         | XA440  | 14        |     |     |        |           |     |     |             |      |                |        | SPO     | 01       |             |                   |       | TQ2                  | B2                 |                    | 09A    |                    |
| 12944         | XA440  | 15        |     |     | XA445  | 40        |     |     |             | 16B  | 9              |        | TFI0TA  | 02       | TFI0TA      | 00                | 1     | TQ2                  | A4                 |                    | 07B    | CPU STOP CONT SNG. |
| 02863         | XA440  | 16        |     |     |        |           |     |     |             |      |                |        | GND     | 01       |             |                   |       | TQ2                  |                    |                    | 01B    |                    |
| 05928         | XA440  | 17        |     |     | XA436  | 11        |     |     |             | 16B  | 9              |        | SPI035  | 12       |             |                   |       | TQ2                  | B3                 |                    | 08B    |                    |
| 05927         | XA440  | 18        |     |     | XA440  | 17        |     |     |             | 16B  | 9              |        | SPI035  | 11       |             |                   |       | TQ2                  | B2                 |                    | 10A    |                    |
| 05974         | XA440  | 19        |     |     | XA440  | 25        |     |     |             | 16B  | 9              |        | SPI036  | 28       |             |                   |       | TQ2                  | B3                 |                    | 09B    |                    |
| 05973         | XA440  | 20        |     |     | XA440  | 19        |     |     |             | 16B  | 9              |        | SPI036  | 27       |             |                   |       | TQ2                  | B2                 |                    | 11A    |                    |
| 07993         | XA440  | 21        |     |     |        |           |     |     |             |      |                |        | SPO     | 01       |             |                   |       | TQ2                  | B3                 |                    | 10B    |                    |
| 07994         | XA440  | 22        |     |     |        |           |     |     |             |      |                |        | SPO     | 01       |             |                   |       | TQ2                  | B1                 |                    | 12A    |                    |

CONNECTOR XA440 CONTINUED ON THE NEXT PAGE:\*\*\*\*

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA440  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 330

| RECORD NUMBER                                   | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | INTL | PREFIX | CONNECTOR | PIN | INTL | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 17512   |        | XA439     | 55  |      | XA432  | 55        |     |      | 16B         | 9    |       |       | XAIRCD4 | 01     | XAIRCO   | 01   | 1      | THI              | E4    |                     | 29B                |                    |        |
| 17515   |        | XA439     | 56  |      | XA431  | 08        |     |      | 16B         | 9    |       |       | XAIRCO  | 01     | XAIRCO   | 00   | 1      | THI              | E4    |                     | 28B                |                    |        |
| 10750   |        | XA439     | 57  |      |        |           |     |      |             |      |       |       | TDIOAA  | 02     | TDIOAA   | 00   | 1      | THI              | E5    |                     | 30B                |                    |        |
| 02860   |        | XA439     | 58  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     | 40A                |                    |        |
| 10756   |        | XA439     | 59  |      | XA431  | 62        |     |      | 16B         | 9    |       |       | TDIOAA  | 01     | TDIOAA   | 01   | 1      | THI              | E5    |                     | 31B                |                    |        |
| 04617   |        | XA439     | 60  |      |        |           |     |      |             |      |       |       | RDEV30  | 07     | RDEV30   | 00   | 1      | THI              | E3    |                     | 28A                | DEV ADDRESS 03     |        |
| 05962   |        | XA439     | 61  |      | XA436  | 62        |     |      | 16B         | 9    |       |       | SPI036  | 16     |          | 01   | 1      | THI              | E2    |                     | 31A                |                    |        |
| 10702   |        | XA439     | 62  |      | XA206  | 63        |     |      | 16B         | 9    |       |       | TDEV3A  | 01     | RDEV30   | 01   | 1      | THI              | E3    |                     | 29A                |                    |        |
| 07991   |        | XA439     | 63  |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | E2    |                     | 30A                |                    |        |
| 15658   |        | XA439     | 64  |      |        |           |     |      |             |      |       |       | TSLA8A  | 08     | TSS100   | 01   | 1      | THI              | E1    |                     | 33A                | B05                |        |
| 10810   |        | XA439     | 65  |      | XA431  | 59        |     |      | 16B         | 9    |       |       | TDI2A0  | 01     | TDI2AA   | 01   | 1      | THI              | E6    |                     | 33B                |                    |        |
| 15661   |        | XA439     | 66  |      |        |           |     |      |             |      |       |       | TSS100  | 02     | TSS100   | 00   | 1      | THI              | E1    |                     | 32A                | START TO CPU B05   |        |
| 02861   |        | XA439     | 67  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 10803   |        | XA439     | 68  |      | XA444  | 19        |     |      | 16B         | 9    |       |       | TDI2AA  | 01     | TDI2AA   | 00   | 1      | THI              | E6    |                     | 32B                |                    |        |
| 18754   |        | XA439     | 69  |      | XA432  | 62        |     |      | 16B         | 9    |       |       | XDIRCD4 | 01     | XDIRCO   | 01   | 1      | THI              | F3    |                     | 35B                |                    |        |
| 18757   |        | XA439     | 70  |      | XA431  | 11        |     |      | 16B         | 9    |       |       | XDIRCO  | 01     | XDIRCO   | 00   | 1      | THI              | F3    |                     | 34B                |                    |        |
| 18343   |        | XA439     | 71  |      | XA431  | 03        |     |      | 16B         | 9    |       |       | XCIRCO  | 01     | XCIRCO   | 00   | 1      | THI              | F2    |                     | 36B                |                    |        |
| 19171   |        | XA439     | 72  |      | XA431  | 24        |     |      | 16B         | 9    |       |       | XEIRCO  | 01     | XEIRCO   | 00   | 1      | THI              | F4    |                     | 34A                |                    |        |
| 18340   |        | XA439     | 73  |      | XA432  | 61        |     |      | 16B         | 9    |       |       | XCIRCD4 | 01     | XCIRCO   | 01   | 1      | THI              | F2    |                     | 37B                |                    |        |
| 19170   |        | XA439     | 74  |      |        |           |     |      |             |      |       |       | XEIRCD4 | 03     | XEIRCO   | 01   | 1      | THI              | F4    |                     | 35A                |                    |        |
| 19503   |        | XA439     | 75  |      |        |           |     |      |             |      |       |       | XGIRCD4 | 03     | XGIRCO   | 01   | 1      | THI              | F6    |                     | 39A                |                    |        |
| 19496   |        | XA439     | 76  |      | XA432  | 66        |     |      | 16B         | 9    |       |       | XFIRCD4 | 01     | XFIRCO   | 01   | 1      | THI              | F5    |                     | 37A                |                    |        |
| 19504   |        | XA439     | 77  |      | XA431  | 17        |     |      | 16B         | 9    |       |       | XGIRCO  | 01     | XGIRCO   | 00   | 1      | THI              | F6    |                     | 38A                |                    |        |
| 19499   |        | XA439     | 78  |      | XA431  | 18        |     |      | 16B         | 9    |       |       | XFIRCO  | 01     | XFIRCO   | 00   | 1      | THI              | F5    |                     | 36A                |                    |        |
| 17926   |        | XA439     | 79  |      | XA432  | 60        |     |      | 16B         | 9    |       |       | XBIRCD4 | 01     | XBIRCO   | 01   | 1      | THI              | F1    |                     | 39B                |                    |        |
| 17929   |        | XA439     | 80  |      | XA431  | 04        |     |      | 16B         | 9    |       |       | XBIRCO  | 01     | XBIRCO   | 00   | 1      | THI              | F1    |                     | 38B                |                    |        |
| 09153   |        | XA440     | 01  |      | XA427  | 03        |     |      | 16B         | 9    |       |       | TBSTS0  | 01     | TBSTS0   | 00   | 1      | TQ2              | A2    |                     | 02B                | WRITE CONTROL PA   |        |
| 02862   |        | XA440     | 02  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 10656   |        | XA440     | 03  |      | XA334  | 11        |     |      | 16B         | 9    |       |       | TDC420  | 02     | TDC41A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 09188   |        | XA440     | 04  |      | XA345  | 22        |     |      | 16B         | 9    |       |       | TBST2A  | 01     | TBSTS0   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 04338   |        | XA440     | 05  |      | XA433  | 10        |     |      | 16B         | 9    |       |       | KSWB1R  | 04     | TBSTS0   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 15215   |        | XA440     | 06  |      | XA434  | 10        |     |      | 16B         | 9    |       |       | TRCCCA  | 01     | TRCCCA   | 00   | 1      | TQ2              | A1    |                     | 05A                |                    |        |
| 13680   |        | XA440     | 07  |      | XA335  | 46        |     |      | 16B         | 9    |       |       | TKAABB  | 01     | TDC41A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 15729   |        | XA440     | 08  |      | XA436  | 03        |     |      | 16B         | 9    |       |       | TSD0A0  | 06     | TRCCCA   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 10654   |        | XA440     | 09  |      |        |           |     |      |             |      |       |       | TDC41A  | 07     | TDC41A   | 00   | 1      | TQ2              | A3    |                     | 04B                | CLOCK INPJT TD24   |        |
| 04679   |        | XA440     | 10  |      | XA444  | 35        |     |      | 16B         | 9    |       |       | RRQST0  | 01     | TRCCCA   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 12930   |        | XA440     | 11  |      | XA446  | 18        |     |      | 16B         | 9    |       |       | TFI0C0  | 03     | TFI0TA   | 01   | 1      | TQ2              | A4    |                     | 05B                | B05                |        |
| 00634   |        | XA440     | 12  |      |        |           |     |      |             |      |       |       | +5V     | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 03790   |        | XA440     | 13  |      | XA337  | 75        |     |      | 16B         | 9    |       |       | JPWFSB4 | 01     | TFI0TA   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 07992   |        | XA440     | 14  |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1      | TQ2              | B2    |                     | 09A                |                    |        |
| 12944   |        | XA440     | 15  |      | XA445  | 40        |     |      | 16B         | 9    |       |       | TFI0TA  | 02     | TFI0TA   | 00   | 1      | TQ2              | A4    |                     | 07B                | CPU STOP CONT SNG. |        |
| 02863   |        | XA440     | 16  |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 05928   |        | XA440     | 17  |      | XA436  | 11        |     |      | 16B         | 9    |       |       | SPI035  | 12     |          | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 05927   |        | XA440     | 18  |      | XA440  | 17        |     |      | 16B         | 9    |       |       | SPI035  | 11     |          | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 05974   |        | XA440     | 19  |      | XA440  | 25        |     |      | 16B         | 9    |       |       | SPI036  | 28     |          | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 05973   |        | XA440     | 20  |      | XA440  | 19        |     |      | 16B         | 9    |       |       | SPI036  | 27     |          | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 07993   |        | XA440     | 21  |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1      | TQ2              | B3    |                     | 10B                |                    |        |
| 07994   |        | XA440     | 22  |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1      | TQ2              | B1    |                     | 12A                |                    |        |
| CONNECTOR XA440 CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA440  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 331

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |         |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CMT OR CHIP TYPE | LOAD OF POWER PLANE | TEST POINTS (AND) OR | SIGNAL DESCRIPTION | ECO NO           |                 |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|---------|-------|--------|--------|----------|------|--------|------------------|---------------------|----------------------|--------------------|------------------|-----------------|
|   | PREFIX | CONNECTOR | PIN | SH TC | PREFIX | CONNECTOR | PIN | SH TC | MULTI GROUP | CODE | COL-1/9 | IDENT |        |        |          |      |        |                  |                     |                      |                    |                  | SPEC INST. MISC |
| 09587   |        | XA440     | 73  |       |        | XA407     | 75  |       |             | 16B  | 9       |       | TCB290 | 01     | TA044A   | 01   | 2      | TQ2              | F2                  |                      | 36B                |                  |                 |
| 05920   |        | XA440     | 74  |       |        | XA440     | 64  |       |             | 16B  | 9       |       | SPI035 | 04     |          | 01   | 2      | TQ2              | F3                  |                      | 35B                |                  |                 |
| 08001   |        | XA440     | 75  |       |        |           |     |       |             |      |         |       | SPO    | 01     |          | 00   | 1      | TQ2              | F1                  |                      | 37B                |                  |                 |
| 09595   |        | XA440     | 76  |       |        |           |     |       |             |      |         |       | TCB310 | 03     | TA064A   | 01   | 1      | TQ2              | F4                  |                      | 37A                |                  |                 |
| 05919   |        | XA440     | 77  |       |        | XA440     | 74  |       |             | 16B  | 9       |       | SPI035 | 03     |          | 01   | 1      | TQ2              | F1                  |                      | 38B                |                  |                 |
| 09876   |        | XA440     | 78  |       |        | XA440     | 71  |       |             | 16B  | 9       |       | TCPD40 | 07     | TA064A   | 01   | 2      | TQ2              | F4                  |                      | 38A                |                  |                 |
| 05928   |        | XA440     | 79  |       |        | XA441     | 56  |       |             | 16B  | 9       |       | SPI036 | 22     |          | 01   | 2      | TQ2              | F1                  |                      | 39B                |                  |                 |
| 08696   |        | XA440     | 80  |       |        | XA436     | 59  |       |             | 16B  | 9       |       | TA064A | 01     | TA064A   | 00   | 1      | TQ2              | F4                  |                      | 39A                | ADD OF CMD TO AD |                 |
| 15554   |        | XA441     | 01  |       |        |           |     |       |             |      |         |       | TR5WAA | 05     | TA0450   | 01   | 1      | TD4              | A2                  |                      | 02B                |                  |                 |
| 02868   |        | XA441     | 02  |       |        |           |     |       |             |      |         |       | GND    | 01     |          |      |        | TD4              |                     |                      | 01A                |                  |                 |
| 01527   |        | XA441     | 03  |       |        |           |     |       |             |      |         |       | DNW    | 01     |          |      |        | TD4              |                     |                      |                    |                  |                 |
| 15562   |        | XA441     | 04  |       |        |           |     |       |             |      |         |       | TR6WAA | 06     | TA0450   | 01   | 2      | TD4              | A2                  |                      | 04A                |                  |                 |
| 15543   |        | XA441     | 05  |       |        | XA439     | 15  |       |             | 16B  | 9       |       | TR4WAA | 01     | TA0450   | 01   | 3      | TD4              | A2                  |                      | 03B                |                  |                 |
| 15462   |        | XA441     | 06  |       |        | XA435     | 07  |       |             | 16B  | 9       |       | TR02BR | 03     | TR3WAA   | 01   | 1      | TD4              | A1                  |                      | 05A                |                  |                 |
| 15565   |        | XA441     | 07  |       |        | XA439     | 17  |       |             | 16B  | 9       |       | TR7WAA | 01     | TA0450   | 01   | 4      | TD4              | A2                  |                      | 03A                |                  |                 |
| 15437   |        | XA441     | 08  |       |        | XA435     | 01  |       |             | 16B  | 9       |       | TR00BR | 01     | TR3WAA   | 01   | 2      | TD4              | A1                  |                      | 06A                |                  |                 |
| 08652   |        | XA441     | 09  |       |        | XA440     | 59  |       |             | 16B  | 9       |       | TA0450 | 01     | TA0450   | 00   | 1      | TD4              | A2                  |                      | 04B                | DEV ADD 4+5+6+7  |                 |
| 15453   |        | XA441     | 10  |       |        | XA433     | 29  |       |             | 16B  | 9       |       | TR01BR | 05     | TR3WAA   | 01   | 3      | TD4              | A1                  |                      | 07A                |                  |                 |
| 15540   |        | XA441     | 11  |       |        |           |     |       |             |      |         |       | TR3WAA | 05     | TR3WAA   | 00   | 1      | TD4              | A1                  |                      | 05B                | IOX 2 + DEV ADD  |                 |
| 00636   |        | XA441     | 12  |       |        |           |     |       |             |      |         |       | +5V    | 01     |          |      |        | TD4              |                     |                      |                    |                  |                 |
| 15475   |        | XA441     | 13  |       |        | XA435     | 23  |       |             | 16B  | 9       |       | TR03BS | 01     | TR3WAA   | 01   | 4      | TD4              | A1                  |                      | 06B                |                  |                 |
| 08556   |        | XA441     | 14  |       |        | XA441     | 22  |       |             | 16B  | 9       |       | TA01BP | 02     | TCS1AA   | 01   | 1      | TD4              | B2                  |                      | 09A                |                  |                 |
| 01528   |        | XA441     | 15  |       |        |           |     |       |             |      |         |       | DNW    | 01     |          |      |        | TD4              |                     |                      |                    |                  |                 |
| 02869   |        | XA441     | 16  |       |        |           |     |       |             |      |         |       | GND    | 01     |          |      |        | TD4              |                     |                      | 20B                |                  |                 |
| 01529   |        | XA441     | 17  |       |        |           |     |       |             |      |         |       | DNW    | 01     |          |      |        | TD4              |                     |                      |                    |                  |                 |
| 08580   |        | XA441     | 18  |       |        | XA441     | 24  |       |             | 16B  | 9       |       | TA02BP | 01     | TCS1AA   | 01   | 2      | TD4              | B2                  |                      | 10A                |                  |                 |
| 08614   |        | XA441     | 19  |       |        | XA442     | 19  |       |             | 16B  | 9       |       | TA03BQ | 03     | TCS1AA   | 01   | 3      | TD4              | B2                  |                      | 09B                |                  |                 |
| 05972   |        | XA441     | 20  |       |        | XA440     | 20  |       |             | 16B  | 9       |       | SPI036 | 26     | TCS1AA   | 01   | 4      | TD4              | B2                  |                      | 11A                |                  |                 |
| 09948   |        | XA441     | 21  |       |        | XA428     | 39  |       |             | 16B  | 9       |       | TCS1AA | 01     | TCS1AA   | 00   | 1      | TD4              | B2                  |                      | 10B                | CH SEL IOX 1     |                 |
| 08557   |        | XA441     | 22  |       |        | XA441     | 34  |       |             | 16B  | 9       |       | TA01BP | 03     | TCSCCA   | 01   | 1      | TD4              | B1                  |                      | 12A                |                  |                 |
| 09880   |        | XA441     | 23  |       |        |           |     |       |             |      |         |       | TCSCCA | 02     | TCSCCA   | 00   | 1      | TD4              | B1                  |                      | 11B                | CH. SEL CCC      |                 |
| 08581   |        | XA441     | 24  |       |        | XA442     | 23  |       |             | 16B  | 9       |       | TA02BP | 02     | TCSCCA   | 01   | 2      | TD4              | B1                  |                      | 13A                |                  |                 |
| 08606   |        | XA441     | 25  |       |        | XA441     | 40  |       |             | 16B  | 9       |       | TA03BP | 02     | TCSCCA   | 01   | 3      | TD4              | B1                  |                      | 12B                |                  |                 |
| 08544   |        | XA441     | 26  |       |        | XA439     | 26  |       |             | 16B  | 9       |       | TA00CA | 01     | TCSCCA   | 01   | 4      | TD4              | B1                  |                      | 14A                |                  |                 |
| 01530   |        | XA441     | 27  |       |        |           |     |       |             |      |         |       | DNW    | 01     |          |      |        | TD4              |                     |                      |                    |                  |                 |
| 00637   |        | XA441     | 28  |       |        |           |     |       |             |      |         |       | +5V    | 01     |          |      |        | TD4              |                     |                      |                    |                  |                 |
| 01531   |        | XA441     | 29  |       |        |           |     |       |             |      |         |       | DNW    | 01     |          |      |        | TD4              |                     |                      |                    |                  |                 |
| 08616   |        | XA441     | 30  |       |        | XA441     | 43  |       |             | 16B  | 9       |       | TA03BQ | 05     | TCS3AA   | 01   | 1      | TD4              | C2                  |                      | 15A                |                  |                 |
| 08590   |        | XA441     | 31  |       |        | XA442     | 25  |       |             | 16B  | 9       |       | TA02BQ | 04     | TCS3AA   | 01   | 2      | TD4              | C2                  |                      | 15B                |                  |                 |
| 02870   |        | XA441     | 32  |       |        |           |     |       |             |      |         |       | GND    | 01     |          |      |        | TD4              |                     |                      | 21B                |                  |                 |
| 09972   |        | XA441     | 33  |       |        | XA428     | 50  |       |             | 16B  | 9       |       | TCS3AA | 01     | TCS3AA   | 00   | 1      | TD4              | C2                  |                      | 16B                | CH. SEL IOX 3    |                 |
| 08558   |        | XA441     | 34  |       |        | XA441     | 38  |       |             | 16B  | 9       |       | TA01BP | 04     | TCS3AA   | 01   | 3      | TD4              | C2                  |                      | 16A                |                  |                 |
| 09960   |        | XA441     | 35  |       |        | XA428     | 52  |       |             | 16B  | 9       |       | TCS2AA | 01     | TCS2AA   | 00   | 1      | TD4              | C1                  |                      | 17B                | CHANNEL SELECT I |                 |
| 05971   |        | XA441     | 36  |       |        | XA441     | 20  |       |             | 16B  | 9       |       | SPI036 | 25     | TCS3AA   | 01   | 4      | TD4              | C2                  |                      | 17A                |                  |                 |
| 08589   |        | XA441     | 37  |       |        | XA441     | 31  |       |             | 16B  | 9       |       | TA02BQ | 03     | TCS2AA   | 01   | 1      | TD4              | C1                  |                      | 18B                |                  |                 |
| 08559   |        | XA441     | 38  |       |        | XA428     | 62  |       |             | 16B  | 9       |       | TA01BP | 05     | TCS2AA   | 01   | 2      | TD4              | C1                  |                      | 18A                |                  |                 |
| 01532   |        | XA441     | 39  |       |        |           |     |       |             |      |         |       | DNW    | 01     |          |      |        | TD4              |                     |                      |                    |                  |                 |
| 08607   |        | XA441     | 40  |       |        | XA441     | 49  |       |             | 16B  | 9       |       | TA03BP | 03     | TCS2AA   | 01   | 3      | TD4              | C1                  |                      | 19A                |                  |                 |
| CONNECTOR (XA441) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |         |       |        |        |          |      |        |                  |                     |                      |                    |                  |                 |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA441  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 332

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |            |      |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | TCO NO           |
|---|--------|-----------|-----|--------|-----------|-----|------|------------|------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULT GROUP | CODE | COLOR |        |        |          |        |        |                  |       |                     |                    |                    |                  |
| 01533   |        | XA441     | 41  |        |           |     |      |            |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 05970   |        | XA441     | 42  |        | XA441     | 36  |      |            | 16B  | 9     |        | SPI036 | 24       | TCS2AA | 01     | 4                | TD4   | C1                  |                    | 20A                |                  |
| 08617   |        | XA441     | 43  |        | XA441     | 60  |      |            | 16B  | 9     |        | TA03BQ | 06       | TCS5AA | 01     | 1                | TD4   | D2                  |                    | 23B                |                  |
| 02871   |        | XA441     | 44  |        |           |     |      |            |      |       |        | GND    | 01       |        |        |                  |       |                     |                    | 27A                |                  |
| 09997   |        | XA441     | 45  |        | XA428     | 45  |      |            | 16B  | 9     |        | TCS5AA | 02       | TCS5AA | 00     | 1                | TD4   | D2                  |                    | 24B                | CH SEL IOX 5     |
| 08565   |        | XA441     | 46  |        | XA442     | 07  |      |            | 16B  | 9     |        | TA01BQ | 04       | TCS5AA | 01     | 2                | TD4   | O2                  |                    | 21A                |                  |
| 09985   |        | XA441     | 47  |        | XA428     | 41  |      |            | 16B  | 9     |        | TCS4AA | 02       | TCS4AA | 00     | 1                | TD4   | D1                  |                    | 25B                | CH SEL IOX 4     |
| 08583   |        | XA441     | 48  |        | XA441     | 52  |      |            | 16B  | 9     |        | TA02BP | 04       | TCS5AA | 01     | 3                | TD4   | O2                  |                    | 22A                |                  |
| 08608   |        | XA441     | 49  |        | XA441     | 61  |      |            | 16B  | 9     |        | TA03BP | 04       | TCS4AA | 01     | 1                | TD4   | D1                  |                    | 26B                |                  |
| 06031   |        | XA441     | 50  |        | XA442     | 39  |      |            | 16B  | 9     |        | SPI038 | 18       | TCS5AA | 01     | 4                | TD4   | O2                  |                    | 23A                |                  |
| 01534   |        | XA441     | 51  |        |           |     |      |            |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 08584   |        | XA441     | 52  |        | XA428     | 55  |      |            | 16B  | 9     |        | TA02BP | 05       | TCS4AA | 01     | 2                | TD4   | D1                  |                    | 24A                |                  |
| 01535   |        | XA441     | 53  |        |           |     |      |            |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 08564   |        | XA441     | 54  |        | XA441     | 46  |      |            | 16B  | 9     |        | TA01BQ | 03       | TCS4AA | 01     | 3                | TD4   | D1                  |                    | 25A                |                  |
| 08588   |        | XA441     | 55  |        | XA441     | 37  |      |            | 16B  | 9     |        | TA02BQ | 02       | TCS7AA | 01     | 1                | TD4   | E2                  |                    | 29B                |                  |
| 05969   |        | XA441     | 56  |        | XA441     | 42  |      |            | 16B  | 9     |        | SPI036 | 23       | TCS4AA | 01     | 4                | TD4   | D1                  |                    | 26A                |                  |
| 10020   |        | XA441     | 57  |        | XA428     | 51  |      |            | 16B  | 9     |        | TCS7AA | 01       | TCS7AA | 00     | 1                | TD4   | E2                  |                    | 30B                | CH SEL IOX 7     |
| 02872   |        | XA441     | 58  |        |           |     |      |            |      |       |        | GND    | 01       |        |        |                  |       |                     |                    | 40A                |                  |
| 10009   |        | XA441     | 59  |        | XA428     | 47  |      |            | 16B  | 9     |        | TCS6AA | 02       | TCS6AA | 00     | 1                | TD4   | E1                  |                    | 31B                | CH SEL IOX 6     |
| 08618   |        | XA441     | 60  |        |           |     |      |            |      |       |        | TA03BQ | 07       | TCS7AA | 01     | 2                | TD4   | E2                  |                    | 28A                |                  |
| 08609   |        | XA441     | 61  |        | XA428     | 59  |      |            | 16B  | 9     |        | TA03BP | 05       | TCS6AA | 01     | 1                | TD4   | E1                  |                    | 32B                |                  |
| 08563   |        | XA441     | 62  |        | XA441     | 54  |      |            | 16B  | 9     |        | TA01BQ | 02       | TCS7AA | 01     | 3                | TD4   | E2                  |                    | 29A                |                  |
| 01536   |        | XA441     | 63  |        |           |     |      |            |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 06025   |        | XA441     | 64  |        | XA442     | 63  |      |            | 16B  | 9     |        | SPI038 | 12       | TCS7AA | 01     | 4                | TD4   | E2                  |                    | 30A                |                  |
| 01537   |        | XA441     | 65  |        |           |     |      |            |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 08587   |        | XA441     | 66  |        | XA441     | 55  |      |            | 16B  | 9     |        | TA02BQ | 01       | TCS6AA | 01     | 2                | TD4   | E1                  |                    | 31A                |                  |
| 02873   |        | XA441     | 67  |        |           |     |      |            |      |       |        | GND    | 01       |        |        |                  |       |                     |                    | 40B                |                  |
| 08562   |        | XA441     | 68  |        | XA441     | 62  |      |            | 16B  | 9     |        | TA01BQ | 01       | TCS6AA | 01     | 3                | TD4   | E1                  |                    | 32A                |                  |
| 08002   |        | XA441     | 69  |        |           |     |      |            |      |       |        | SPO    | 01       |        | 00     | 1                | TD4   | F2                  |                    | 35A                |                  |
| 06024   |        | XA441     | 70  |        | XA441     | 64  |      |            | 16B  | 9     |        | SPI038 | 11       | TCS6AA | 01     | 4                | TD4   | E1                  |                    | 33A                |                  |
| 06023   |        | XA441     | 71  |        | XA441     | 70  |      |            | 16B  | 9     |        | SPI038 | 10       |        | 01     | 1                | TD4   | F2                  |                    | 36A                |                  |
| 06069   |        | XA441     | 72  |        | XA443     | 61  |      |            | 16B  | 9     |        | SPI039 | 21       |        | 01     | 2                | TD4   | F2                  |                    | 34A                |                  |
| 05633   |        | XA441     | 73  |        | XA444     | 72  |      |            | 16B  | 9     |        | SPI026 | 25       |        | 01     | 3                | TD4   | F2                  |                    | 36B                |                  |
| 05992   |        | XA441     | 74  |        | XA442     | 65  |      |            | 16B  | 9     |        | SPI037 | 10       |        | 01     | 4                | TD4   | F2                  |                    | 35B                |                  |
| 06022   |        | XA441     | 75  |        | XA441     | 71  |      |            | 16B  | 9     |        | SPI038 | 09       | RTCT00 | 00     | 1                | TD4   | F1                  |                    | 37B                |                  |
| 04802   |        | XA441     | 76  |        | XA406     | 22  |      |            | 16B  | 9     |        | RTCT00 | 01       | RTCT00 | 00     | 1                | TD4   | F1                  |                    | 37A                | RTC TIMEOUT TO I |
| 04840   |        | XA441     | 77  |        | XA445     | 51  |      |            | 16B  | 9     |        | RTT02A | 01       | RTCT00 | 01     | 2                | TD4   | F1                  |                    | 38B                |                  |
| 04836   |        | XA441     | 78  |        | XA445     | 50  |      |            | 16B  | 9     |        | RTT00A | 01       | RTCT00 | 01     | 3                | TD4   | F1                  |                    | 38A                |                  |
| 04839   |        | XA441     | 79  |        |           |     |      |            |      |       |        | RTT01A | 02       | RTCT00 | 01     | 4                | TD4   | F1                  |                    | 39B                |                  |
| 01538   |        | XA441     | 80  |        |           |     |      |            |      |       |        | DNW    | 01       |        |        |                  |       |                     |                    |                    |                  |
| 13755   |        | XA442     | 01  |        | XA116     | 01  |      |            | 16B  | 9     |        | TKA03A | 04       | TA01BN | 01     | 1                | TDD   | BN                  |                    | 02B                |                  |
| 02874   |        | XA442     | 02  |        |           |     |      |            |      |       |        | GND    | 01       |        |        |                  |       |                     |                    | 01B                |                  |
| 06053   |        | XA442     | 03  |        | XA442     | 17  |      |            | 16B  | 9     |        | SPI039 | 05       | TA01BQ | 01     | 1                | TDD   | BQ                  |                    | 02A                |                  |
| 16011   |        | XA442     | 04  |        | XA442     | 06  |      |            | 16B  | 9     |        | TS1ABA | 04       | TA01BP | 01     | 1                | TDD   | BP                  |                    | 04A                |                  |
| 08573   |        | XA442     | 05  |        |           |     |      |            |      |       |        | TA0110 | 02       | TA01BI | 01     | 1                | TDD   | BI                  |                    | 03B                |                  |
| 16012   |        | XA442     | 06  |        | XA442     | 22  |      |            | 16B  | 9     |        | TS1ABA | 05       | TA00BP | 01     | 1                | TDD   | AP                  |                    | 05A                |                  |
| 08566   |        | XA442     | 07  |        | XA207     | 05  |      |            | 16B  | 9     |        | TA01BQ | 05       | TA01BQ | 00     | 1                | TDD   | BQ                  |                    | 03A                | ADD REG 1 PRESET |
| 08550   |        | XA442     | 08  |        |           |     |      |            |      |       |        | TA0010 | 02       | TA00BI | 01     | 1                | TDD   | AI                  |                    | 06A                |                  |
| CONNECTOR (XA442) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |            |      |       |        |        |          |        |        |                  |       |                     |                    |                    |                  |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA442  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 333

| RECORD NUMBER | FROM      |           |                                 |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCI OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|-----------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|---------------------|--------------------|--------|
|               | PREFIX    | CONNECTOR | PIN                             | IN TO | PREFIX | CONNECTOR | PIN | IN TO | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                     |                    |        |
| 08555         |           | XA442     | 09                              |       |        | XA441     | 14  |       |             | 16B  | 9     |       | TA018P | 01     | TA018P   | 00   | 1      | TDD              | BP    |                     | 04B                 | ADD REG 1 PRERES   |        |
| 13754         |           | XA442     | 10                              |       |        | XA442     | 01  |       |             | 16B  | 9     |       | TKA03A | 03     | TA00BN   | 01   | 1      | TDD              | AN    |                     | 07A                 |                    |        |
| 08538         |           | XA442     | 11                              |       |        |           |     |       |             |      |       |       | TA00BP | 02     | TA00BP   | 00   | 1      | TDD              | AP    |                     | 05B                 | ADD REG 3 PRERES   |        |
| 00638         |           | XA442     | 12                              |       |        |           |     |       |             |      |       |       | +5V    | 01     |          |      |        |                  |       |                     |                     |                    |        |
| 08543         |           | XA442     | 13                              |       |        |           |     |       |             |      |       |       | TA00BQ | 05     | TA00BQ   | 00   | 1      | TDD              | AQ    |                     | 06B                 | ADD REG 3 PRESET   |        |
| 13753         |           | XA442     | 14                              |       |        | XA442     | 10  |       |             | 16B  | 9     |       | TKA03A | 02     | TA03BN   | 01   | 1      | TDD              | DN    |                     | 09A                 |                    |        |
| 06047         |           | XA442     | 15                              |       |        | XA428     | 15  |       |             | 16B  | 9     |       | SPI038 | 34     | TA00BQ   | 01   | 1      | TDD              | AQ    |                     | 07B                 |                    |        |
| 02875         |           | XA442     | 16                              |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     | 20B                 |                    |        |
| 06054         |           | XA442     | 17                              |       |        | XA442     | 29  |       |             | 16B  | 9     |       | SPI039 | 06     | TA03BQ   | 01   | 1      | TDD              | DQ    |                     | 08B                 |                    |        |
| 08623         |           | XA442     | 18                              |       |        |           |     |       |             |      |       |       | TA0310 | 02     | TA03BI   | 01   | 1      | TDD              | DI    |                     | 10A                 |                    |        |
| 08615         |           | XA442     | 19                              |       |        | XA441     | 30  |       |             | 16B  | 9     |       | TA03BQ | 04     | TA03BQ   | 00   | 1      | TDD              | DQ    |                     | 09B                 | ADD REG 3 PRESET   |        |
| 16274         |           | XA442     | 20                              |       |        |           |     |       |             |      |       |       | TS2ABA | 05     | TA03BP   | 01   | 1      | TDD              | DP    |                     | 11A                 |                    |        |
| 08605         |           | XA442     | 21                              |       |        | XA441     | 25  |       |             | 16B  | 9     |       | TA03BP | 01     | TA03BP   | 00   | 1      | TDD              | DP    |                     | 10B                 | ADD REG 3 PRERES   |        |
| 16013         |           | XA442     | 22                              |       |        | XA414     | 63  |       |             | 16B  | 9     |       | TS1ABA | 06     | TA02BP   | 01   | 1      | TDD              | CP    |                     | 12A                 |                    |        |
| 08582         |           | XA442     | 23                              |       |        | XA441     | 48  |       |             | 16B  | 9     |       | TA02BP | 03     | TA02BP   | 00   | 1      | TDD              | CP    |                     | 11B                 | ADD REG 2 PRERES   |        |
| 08598         |           | XA442     | 24                              |       |        |           |     |       |             |      |       |       | TA0210 | 02     | TA02BI   | 01   | 1      | TDD              | CI    |                     | 13A                 |                    |        |
| 08591         |           | XA442     | 25                              |       |        | XA207     | 07  |       |             | 16B  | 9     |       | TA02BQ | 05     | TA02BQ   | 00   | 1      | TDD              | CQ    |                     | 12B                 | ADD REG 2 PRESET   |        |
| 13752         |           | XA442     | 26                              |       |        | XA442     | 14  |       |             | 16B  | 9     |       | TKA03A | 01     | TA02BN   | 01   | 1      | TDD              | CN    |                     | 14A                 |                    |        |
| 06033         |           | XA442     | 27                              |       |        | XA443     | 31  |       |             | 16B  | 9     |       | SPI038 | 20     | TA02BQ   | 01   | 1      | TDD              | CQ    |                     | 13B                 |                    |        |
| 00639         |           | XA442     | 28                              |       |        |           |     |       |             |      |       |       | +5V    | 01     |          |      |        |                  |       |                     |                     |                    |        |
| 06055         |           | XA442     | 29                              |       |        | XA442     | 41  |       |             | 16B  | 9     |       | SPI039 | 07     | TA05BQ   | 01   | 1      | TDD              | FQ    |                     | 14B                 |                    |        |
| 13758         |           | XA442     | 30                              |       |        | XA442     | 42  |       |             | 16B  | 9     |       | TKA46A | 02     | TA05BN   | 01   | 1      | TDD              | FN    |                     | 15A                 |                    |        |
| 08660         |           | XA442     | 31                              |       |        | XA434     | 46  |       |             | 16B  | 9     |       | TA05BQ | 01     | TA05BQ   | 00   | 1      | TDD              | FQ    |                     | 15B                 | ADD REG 5 PRESET   |        |
| 02876         |           | XA442     | 32                              |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     | 21B                 |                    |        |
| 08659         |           | XA442     | 33                              |       |        |           |     |       |             |      |       |       | TA05BP | 06     | TA05BP   | 00   | 1      | TDD              | FP    |                     | 16B                 | ADD REG 5 PRERES   |        |
| 08671         |           | XA442     | 34                              |       |        |           |     |       |             |      |       |       | TA0510 | 02     | TA05BI   | 01   | 1      | TDD              | FI    |                     | 16A                 |                    |        |
| 08635         |           | XA442     | 35                              |       |        |           |     |       |             |      |       |       | TA04BP | 06     | TA04BP   | 00   | 1      | TDD              | EP    |                     | 17B                 | ADD REG 4 PRERES   |        |
| 16273         |           | XA442     | 36                              |       |        | XA442     | 20  |       |             | 16B  | 9     |       | TS2ABA | 04     | TA05BP   | 01   | 1      | TDD              | FP    |                     | 17A                 |                    |        |
| 08642         |           | XA442     | 37                              |       |        |           |     |       |             |      |       |       | TA04BQ | 07     | TA04BQ   | 00   | 1      | TDD              | EQ    |                     | 18B                 | ADD REG 4 PRESET   |        |
| 16272         |           | XA442     | 38                              |       |        | XA442     | 36  |       |             | 16B  | 9     |       | TS2ABA | 03     | TA04BP   | 01   | 1      | TDD              | EP    |                     | 18A                 |                    |        |
| 06032         |           | XA442     | 39                              |       |        | XA442     | 27  |       |             | 16B  | 9     |       | SPI038 | 19     | TA04BQ   | 01   | 1      | TDD              | EQ    |                     | 19B                 |                    |        |
| 08647         |           | XA442     | 40                              |       |        |           |     |       |             |      |       |       | TA0410 | 02     | TA04BI   | 01   | 1      | TDD              | EI    |                     | 19A                 |                    |        |
| 06056         |           | XA442     | 41                              |       |        | XA442     | 53  |       |             | 16B  | 9     |       | SPI039 | 08     | TSSGBQ   | 01   | 1      | TDD              | HQ    |                     | 22B                 |                    |        |
| 13759         |           | XA442     | 42                              |       |        | XA442     | 56  |       |             | 16B  | 9     |       | TKA46A | 03     | TA04BN   | 01   | 1      | TDD              | EN    |                     | 20A                 |                    |        |
| 15645         |           | XA442     | 43                              |       |        | XA436     | 77  |       |             | 16B  | 9     |       | TSSGBQ | 02     | TSSGBQ   | 00   | 1      | TDD              | HQ    |                     | 23B                 |                    |        |
| 02877         |           | XA442     | 44                              |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     | 27A                 |                    |        |
| 15643         |           | XA442     | 45                              |       |        |           |     |       |             |      |       |       | TSSG6P | 05     | TSSGBP   | 00   | 1      | TDD              | HP    |                     | 24B                 |                    |        |
| 14901         |           | XA442     | 46                              |       |        | XA433     | 01  |       |             | 16B  | 9     |       | TPUSAA | 01     | TSSGBN   | 01   | 1      | TDD              | HN    |                     | 21A                 |                    |        |
| 08681         |           | XA442     | 47                              |       |        |           |     |       |             |      |       |       | TA06BP | 06     | TA06BP   | 00   | 1      | TDD              | GP    |                     | 25B                 | ADD REG 6 PRERES   |        |
| 15637         |           | XA442     | 48                              |       |        | XA405     | 78  |       |             | 16B  | 9     |       | TSSGAA | 02     | TSSGBI   | 01   | 1      | TDD              | HI    |                     | 22A                 |                    |        |
| 08688         |           | XA442     | 49                              |       |        |           |     |       |             |      |       |       | TA06BQ | 07     | TA06BQ   | 00   | 1      | TDD              | GQ    |                     | 26B                 | ADD REG 6 PRESET   |        |
| 14271         |           | XA442     | 50                              |       |        | XA433     | 04  |       |             | 16B  | 9     |       | TFI35A | 05     | TSSGBP   | 01   | 1      | TDD              | HP    |                     | 23A                 |                    | 805    |
| 06030         |           | XA442     | 51                              |       |        | XA441     | 50  |       |             | 16B  | 9     |       | SPI038 | 17     | TA06B0   | 01   | 1      | TDD              | GQ    |                     | 27B                 |                    |        |
| 16271         |           | XA442     | 52                              |       |        | XA442     | 38  |       |             | 16B  | 9     |       | TS2ABA | 02     | TA06BP   | 01   | 1      | TDD              | GP    |                     | 24A                 |                    |        |
| 06057         |           | XA442     | 53                              |       |        | XA443     | 53  |       |             | 16B  | 9     |       | SPI039 | 09     | RTRQ1Q   | 01   | 1      | TDD              | KQ    |                     | 28B                 |                    |        |
| 08693         |           | XA442     | 54                              |       |        |           |     |       |             |      |       |       | TA0610 | 02     | TA06BI   | 01   | 1      | TDD              | GI    |                     | 25A                 |                    |        |
| 04830         |           | XA442     | 55                              |       |        |           |     |       |             |      |       |       | RTRQ1Q | 03     | RTRQ1Q   | 00   | 1      | TDD              | KQ    |                     | 29B                 | RTC 1 REQUEST-PR   |        |
| 13760         |           | XA442     | 56                              |       |        |           |     |       |             |      |       |       | TKA46A | 04     | TA063N   | 01   | 1      | TDD              | GN    |                     | 26A                 |                    |        |
| 04827         |           | XA442     | 57                              |       |        |           |     |       |             |      |       |       | RTKQ1P | 02     | RTRQ1P   | 00   | 1      | TDD              | KP    |                     | 30B                 | RTC 1 REQUEST-PR   |        |
| 02878         |           | XA442     | 58                              |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     | 40A                 |                    |        |
|               | CONNECTOR | XA442     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |       |       |        |        |          |      |        |                  |       |                     |                     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA442  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 334

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION               | ECO NO           |  |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|----------------------------------|------------------|--|
|   | PREFIX | CONNECTOR | PIN | IN FC | PREFIX | CONNECTOR | PIN | IN FC | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                                  |                  |  |
| 04822   |        | XA442     | 59  |       |        |           |     |       |             |      |       |       | RTRQOP | 02     | RTRQOP   | 00   | 1      | TDD              | JP    |                     | 31B                | RTC 0 REQUEST-PR                 |                  |  |
| 04723   |        | XA442     | 60  |       | XA406  | 56        |     |       |             | 16B  | 9     |       | RTCL10 | 01     | RTRQ1N   | 01   | 1      | TDD              | KN    |                     | 28A                |                                  |                  |  |
| 04825   |        | XA442     | 61  |       |        |           |     |       |             |      |       |       | RTRQ0Q | 03     | RTRQ0Q   | 00   | 1      | TDD              | JQ    |                     | 32B                | RTC 0 REQUEST-PR                 |                  |  |
| 04813   |        | XA442     | 62  |       | XA445  | 62        |     |       |             | 16B  | 9     |       | RTE1S  | 01     | RTRQ1I   | 01   | 1      | TDD              | KI    |                     | 29A                |                                  |                  |  |
| 06026   |        | XA442     | 63  |       | XA442  | 51        |     |       |             | 16B  | 9     |       | SPI038 | 13     | RTRQ0Q   | 01   | 1      | TDD              | JQ    |                     | 33B                |                                  |                  |  |
| 04646   |        | XA442     | 64  |       | XA406  | 01        |     |       |             | 16B  | 9     |       | REN1A  | 01     | RTRQ1P   | 01   | 1      | TDD              | KP    |                     | 30A                |                                  |                  |  |
| 05993   |        | XA442     | 65  |       | XA433  | 66        |     |       |             | 16B  | 9     |       | SPI037 | 11     | RTCN0Q   | 01   | 1      | TDD              | MQ    |                     | 34B                |                                  |                  |  |
| 04642   |        | XA442     | 66  |       | XA406  | 03        |     |       |             | 16B  | 9     |       | RENMOA | 01     | RTRQOP   | 01   | 1      | TDD              | JP    |                     | 31A                |                                  |                  |  |
| 02879   |        | XA442     | 67  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TDD              |       |                     | 40B                |                                  |                  |  |
| 04808   |        | XA442     | 68  |       | XA445  | 70        |     |       |             | 16B  | 9     |       | RTENOS | 01     | RTRQ0I   | 01   | 1      | TDD              | JI    |                     | 32A                |                                  |                  |  |
| 04732   |        | XA442     | 69  |       | XA405  | 05        |     |       |             | 16B  | 9     |       | RTCNOP | 04     | RTCNOP   | 00   | 1      | TDD              | MP    |                     | 35A                | RTC 0-PRESET                     |                  |  |
| 04720   |        | XA442     | 70  |       |        |           |     |       |             |      |       |       | RTCL00 | 02     | RTRQ0N   | 01   | 1      | TDD              | JN    |                     | 33A                |                                  |                  |  |
| 04746   |        | XA442     | 71  |       | XA445  | 56        |     |       |             | 16B  | 9     |       | RTCNIQ | 03     | RTCNOI   | 01   | 1      | TDD              | MI    |                     | 36A                |                                  |                  |  |
| 04770   |        | XA442     | 72  |       |        |           |     |       |             |      |       |       | RTCQ2A | 04     | RTCNON   | 01   | 1      | TDD              | MN    |                     | 34A                |                                  |                  |  |
| 04693   |        | XA442     | 73  |       | XA405  | 66        |     |       |             | 16B  | 9     |       | RTCLLB | 08     | RTCNOP   | 01   | 1      | TDD              | MP    |                     | 36B                | MASTER RESET - F<br>RTC 0-PRESET |                  |  |
| 04736   |        | XA442     | 74  |       | XA445  | 45        |     |       |             | 16B  | 9     |       | RTCNOQ | 03     | RTCNQ    | 00   | 1      | TDD              | MQ    |                     | 35B                |                                  |                  |  |
| 04638   |        | XA442     | 75  |       | XA406  | 08        |     |       |             | 16B  | 9     |       | RENMSA | 01     | RSWRQP   | 01   | 1      | TDD              | LP    |                     | 37B                |                                  |                  |  |
| 04681   |        | XA442     | 76  |       | XA444  | 30        |     |       |             | 16B  | 9     |       | RSWRQP | 01     | RSWRQP   | 00   | 1      | TDD              | LP    |                     | 37A                | SWITCH REQUEST-P                 |                  |  |
| 06021   |        | XA442     | 77  |       | XA441  | 75        |     |       |             | 16B  | 9     |       | SPI038 | 08     | RSWRQI   | 01   | 1      | TDD              | LI    |                     | 38B                |                                  |                  |  |
| 04684   |        | XA442     | 78  |       | XA207  | 78        |     |       |             | 16B  | 9     |       | RSWRQQ | 02     | RSWRQQ   | 00   | 1      | TDD              | LQ    |                     | 38A                | SWITCH REQUEST-P                 |                  |  |
| 04350   |        | XA442     | 79  |       | XA436  | 76        |     |       |             | 16B  | 9     |       | KSWSTS | 01     | RSWRQN   | 01   | 1      | TDD              | LN    |                     | 39B                |                                  |                  |  |
| 06068   |        | XA442     | 80  |       | XA441  | 72        |     |       |             | 16B  | 9     |       | SPI039 | 20     | RSWRQQ   | 01   | 1      | TDD              | LQ    |                     | 39A                |                                  |                  |  |
| 09718   |        | XA443     | 01  |       |        |           |     |       |             |      |       |       | TCENIA | 02     | TCENIA   | 00   | 1      | TQ2              | A2    |                     | 02B                | COMMAND + ENABL                  |                  |  |
| 02880   |        | XA443     | 02  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01A                |                                  |                  |  |
| 09938   |        | XA443     | 03  |       |        |           |     |       |             |      |       |       | TCSXMA | 11     | TCSR0A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                                  |                  |  |
| 09645   |        | XA443     | 04  |       |        |           |     |       |             |      |       |       | TCDENO | 04     | TCENIA   | 01   | 1      | TQ2              | A2    |                     | 04A                |                                  |                  |  |
| 06046   |        | XA443     | 05  |       | XA442  | 15        |     |       |             | 16B  | 9     |       | SPI038 | 33     | TCENIA   | 01   | 2      | TQ2              | A2    |                     | 03B                |                                  |                  |  |
| 08003   |        | XA443     | 06  |       |        |           |     |       |             |      |       |       | SPO    | 01     |          | 00   | 1      | TQ2              | A1    |                     | 05A                |                                  |                  |  |
| 15579   |        | XA443     | 07  |       | XA439  | 19        |     |       |             | 16B  | 9     |       | TR8WA0 | 01     | TCSR0A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                                  |                  |  |
| 06045   |        | XA443     | 08  |       | XA443  | 05        |     |       |             | 16B  | 9     |       | SPI038 | 32     |          | 01   | 1      | TQ2              | A1    |                     | 06A                |                                  |                  |  |
| 09899   |        | XA443     | 09  |       |        |           |     |       |             |      |       |       | TCSR0A | 02     | TCSR0A   | 00   | 1      | TQ2              | A3    |                     | 04B                | CH SEL IOM . REQ                 |                  |  |
| 06052   |        | XA443     | 10  |       | XA442  | 03        |     |       |             | 16B  | 9     |       | SPI039 | 04     |          | 01   | 2      | TQ2              | A1    |                     | 07A                |                                  |                  |  |
| 09956   |        | XA443     | 11  |       | XA438  | 03        |     |       |             | 16B  | 9     |       | TC5IA0 | 01     | TCSR1A   | 01   | 1      | TQ2              | A4    |                     | 05B                |                                  |                  |  |
| 00640   |        | XA443     | 12  |       |        |           |     |       |             |      |       |       | +5V    | 01     |          |      |        | TQ2              |       |                     |                    |                                  |                  |  |
| 15444   |        | XA443     | 13  |       | XA437  | 08        |     |       |             | 16B  | 9     |       | TR00B5 | 02     | TCSR1A   | 01   | 2      | TQ2              | A4    |                     | 06B                |                                  |                  |  |
| 09904   |        | XA443     | 14  |       | XA444  | 07        |     |       |             | 16B  | 9     |       | TCSR3A | 01     | TCSR3A   | 00   | 1      | TQ2              | B2    |                     | 09A                | CH. SEL 3 . REQ                  |                  |  |
| 09900   |        | XA443     | 15  |       | XA444  | 06        |     |       |             | 16B  | 9     |       | TCSR1A | 01     | TCSR1A   | 00   | 1      | TQ2              | A4    |                     | 07B                |                                  | CH. SEL 1 AND RE |  |
| 02881   |        | XA443     | 16  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        | TQ2              |       |                     | 01B                |                                  |                  |  |
| 15555   |        | XA443     | 17  |       | XA439  | 24        |     |       |             | 16B  | 9     |       | TR5WA0 | 01     | TCSR4A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                                  |                  |  |
| 09980   |        | XA443     | 18  |       | XA438  | 26        |     |       |             | 16B  | 9     |       | TCS3A0 | 01     | TCSR3A   | 01   | 1      | TQ2              | B2    |                     | 10A                |                                  |                  |  |
| 09992   |        | XA443     | 19  |       | XA438  | 20        |     |       |             | 16B  | 9     |       | TCS4A0 | 01     | TCSR4A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                                  |                  |  |
| 15548   |        | XA443     | 20  |       | XA439  | 10        |     |       |             | 16B  | 9     |       | TR4WA0 | 01     | TCSR3A   | 01   | 2      | TQ2              | B2    |                     | 11A                |                                  |                  |  |
| 09907   |        | XA443     | 21  |       |        |           |     |       |             |      |       |       | TCSR4A | 02     | TCSR4A   | 00   | 1      | TQ2              | B3    |                     | 10B                | CH. SEL 4 . REQ                  |                  |  |
| 09903   |        | XA443     | 22  |       |        |           |     |       |             |      |       |       | TCSR2A | 02     | TCSR2A   | 00   | 1      | TQ2              | B1    |                     | 12A                |                                  | CH SEL 2 . REQ I |  |
| 10004   |        | XA443     | 23  |       | XA438  | 19        |     |       |             | 16B  | 9     |       | TCS5A0 | 01     | TCSR5A   | 01   | 1      | TQ2              | B4    |                     | 11B                |                                  |                  |  |
| 15541   |        | XA443     | 24  |       | XA439  | 13        |     |       |             | 16B  | 9     |       | TR3WA0 | 01     | TCSR2A   | 01   | 1      | TQ2              | B1    |                     | 13A                |                                  |                  |  |
| 15563   |        | XA443     | 25  |       | XA439  | 18        |     |       |             | 16B  | 9     |       | TR6WA0 | 01     | TCSR5A   | 01   | 2      | TQ2              | B4    |                     | 12B                |                                  |                  |  |
| 09968   |        | XA443     | 26  |       | XA438  | 11        |     |       |             | 16B  | 9     |       | TCS2A0 | 01     | TCSR2A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                                  |                  |  |
| CONNECTOR (XA443) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                                  |                  |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA443  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 335

| RECORD NUMBER                                   | FROM   |           |     |    | TO     |           |     |       | WIRE        |      |        | SIGNAL | SEQ NO  | EQUATION | TERM FACTOR | CKT OR DR TYPE | GND | LOAD OF POWER PLANE | TEST POINTS AND JF | SIGNAL DESCRIPTION | ECO NO |                  |               |
|---|--------|-----------|-----|----|--------|-----------|-----|-------|-------------|------|--------|--------|---------|----------|-------------|----------------|-----|---------------------|--------------------|--------------------|--------|------------------|---------------|
|   | PREFIX | CONNECTOR | PIN | TO | PREFIX | CONNECTOR | PIN | DR FG | MULTI GROUP | CODE | COL IN |        |         |          |             |                |     |                     |                    |                    |        | IDENT            | SPC INST MISC |
| 09908   |        | XA443     | 27  |    |        |           |     |       |             |      |        |        | TCSR5A  | 01       | TCSR5A      | 00             | 1   | TQ2                 | B4                 |                    | 13B    | CH. SEL 5 . REQ  |               |
| 00641   |        | XA443     | 28  |    | XA444  | 01        |     |       | 16B         | 9    |        |        | +5V     | 01       |             |                |     |                     |                    |                    |        |                  |               |
| 10036   |        | XA443     | 29  |    |        |           |     |       |             |      |        |        | TCOMP0  | 03       | TCOMP0      | 01             | 1   | TQ2                 | C3                 |                    | 14B    |                  |               |
| 09912   |        | XA443     | 30  |    | XA444  | 10        |     |       | 16B         | 9    |        |        | TCSR7A  | 01       | TCSR7A      | 00             | 1   | TQ2                 | C2                 |                    | 15A    | CH. SEL 7 . REQ  |               |
| 06034   |        | XA443     | 31  |    | XA444  | 40        |     |       | 16B         | 9    |        |        | SPI038  | 21       | TCOMP0      | 01             | 2   | TQ2                 | C3                 |                    | 15B    |                  |               |
| 02882   |        | XA443     | 32  |    |        |           |     |       |             |      |        |        | GND     | 01       |             |                |     |                     |                    |                    | 20B    |                  |               |
| 10032   |        | XA443     | 33  |    | XA142  | 61        |     |       | 16B         | 9    |        |        | TCOMP0  | 02       | TCOMP0      | 00             | 1   | TQ2                 | C3                 |                    | 16B    | CHAN SEL + REG C |               |
| 10030   |        | XA443     | 34  |    |        |           |     |       |             |      |        |        | TCS7A0  | 04       | TCSR7A      | 01             | 1   | TQ2                 | C2                 |                    | 16A    |                  |               |
| 16304   |        | XA443     | 35  |    | XA350  | 77        |     |       | 16B         | 9    |        |        | TS21BP  | 01       | RTCT10      | 01             | 1   | TQ2                 | C4                 |                    | 17B    |                  |               |
| 15590   |        | XA443     | 36  |    | XA439  | 25        |     |       | 16B         | 9    |        |        | TR9WA0  | 01       | TCSR7A      | 01             | 2   | TQ2                 | C2                 |                    | 17A    |                  |               |
| 04801   |        | XA443     | 37  |    |        |           |     |       |             |      |        |        | RTCT0A  | 04       | RTCT10      | 01             | 2   | TQ2                 | C4                 |                    | 18B    |                  |               |
| 09911   |        | XA443     | 38  |    |        |           |     |       |             |      |        |        | TCSR6A  | 02       | TCSR6A      | 00             | 1   | TQ2                 | C1                 |                    | 18A    | CH. SEL 6 . REQ  |               |
| 04805   |        | XA443     | 39  |    |        |           |     |       |             |      |        |        | RTCT10  | 02       | RTCT10      | 00             | 1   | TQ2                 | C4                 |                    | 19B    |                  |               |
| 15572   |        | XA443     | 40  |    | XA439  | 14        |     |       | 16B         | 9    |        |        | TR7WA0  | 01       | TCSR6A      | 01             | 1   | TQ2                 | C1                 |                    | 19A    |                  |               |
| 04655   |        | XA443     | 41  |    |        |           |     |       |             |      |        |        | RENROA  | 02       | RENMO0      | 01             | 1   | TQ2                 | D3                 |                    | 22B    |                  |               |
| 10016   |        | XA443     | 42  |    | XA438  | 23        |     |       | 16B         | 9    |        |        | TCS6A0  | 01       | TCSR6A      | 01             | 2   | TQ2                 | C1                 |                    | 20A    |                  |               |
| 04686   |        | XA443     | 43  |    | XA443  | 47        |     |       | 16B         | 9    |        |        | RTCCLB  | 01       | RENMO0      | 01             | 2   | TQ2                 | D3                 |                    | 23B    | MASTER RESET - F |               |
| 02883   |        | XA443     | 44  |    |        |           |     |       |             |      |        |        | GND     | 01       |             |                |     |                     |                    |                    | 21B    |                  |               |
| 04645   |        | XA443     | 45  |    |        |           |     |       |             |      |        |        | RENMO0  | 02       | RENMO0      | 00             | 1   | TQ2                 | D3                 |                    | 24B    | RTC 0 ENABLE + M |               |
| 04641   |        | XA443     | 46  |    |        |           |     |       |             |      |        |        | RENMS0  | 02       | RENMS0      | 00             | 1   | TQ2                 | D2                 |                    | 21A    | SWITCH ENBLE + M |               |
| 04687   |        | XA443     | 47  |    | XA443  | 50        |     |       | 16B         | 9    |        |        | RTCCLB  | 02       | RENMO0      | 01             | 1   | TQ2                 | D4                 |                    | 25B    | MASTER RESET - F |               |
| 04660   |        | XA443     | 48  |    | XA407  | 51        |     |       | 16B         | 9    |        |        | RENSWA  | 01       | RENMS0      | 01             | 1   | TQ2                 | D2                 |                    | 22A    |                  |               |
| 04656   |        | XA443     | 49  |    | XA415  | 51        |     |       | 16B         | 9    |        |        | RENRIA  | 01       | RENMO0      | 01             | 2   | TQ2                 | D4                 |                    | 26B    |                  |               |
| 04688   |        | XA443     | 50  |    | XA445  | 53        |     |       | 16B         | 9    |        |        | RTCCLB  | 03       | RENMS0      | 01             | 2   | TQ2                 | D2                 |                    | 23A    | MASTER RESET - F |               |
| 04649   |        | XA443     | 51  |    |        |           |     |       |             |      |        |        | RENMI0  | 02       | RENMI0      | 00             | 1   | TQ2                 | D4                 |                    | 27B    | RTC 1 ENABLE + M |               |
| 10992   |        | XA443     | 52  |    |        |           |     |       |             |      |        |        | TDL0A0  | 08       | TDL0A0      | 00             | 1   | TQ2                 | D1                 |                    | 24A    | OR'D DATA LINE 0 |               |
| 06058   |        | XA443     | 53  |    | XA444  | 54        |     |       | 16B         | 9    |        |        | SPI039  | 10       | TM00AA      | 01             | 1   | TQ2                 | E3                 |                    | 28B    |                  |               |
| 10996   |        | XA443     | 54  |    |        |           |     |       |             |      |        |        | TDL03A  | 02       | TDL0A0      | 01             | 1   | TQ2                 | D1                 |                    | 25A    |                  |               |
| 06029   |        | XA443     | 55  |    |        |           |     |       |             |      |        |        | TM00BQ  | 06       | TM00AA      | 01             | 2   | TQ2                 | E3                 |                    | 29B    |                  |               |
| 10994   |        | XA443     | 56  |    |        |           |     |       |             |      |        |        | TDL01A  | 02       | TDL0A0      | 01             | 2   | TQ2                 | D1                 |                    | 26A    |                  |               |
| 08004   |        | XA443     | 57  |    | XA239  | 78        |     |       | 16B         | 9    |        |        | TM00AA  | 04       | TM00AA      | 00             | 1   | TQ2                 | E3                 |                    | 30B    |                  |               |
| 02884   |        | XA443     | 58  |    |        |           |     |       |             |      |        |        | GND     | 01       |             |                |     |                     |                    |                    | 27A    |                  |               |
| 06028   |        | XA443     | 59  |    |        |           |     |       |             |      |        |        | TM01BP  | 06       | TM01A0      | 01             | 1   | TQ2                 | E4                 |                    | 31B    |                  |               |
| 04337   |        | XA443     | 60  |    | XA440  | 05        |     |       | 16B         | 9    |        |        | KSWB1R  | 03       | KSWB1R      | 00             | 1   | TQ2                 | E2                 |                    | 28A    | BOOTSTRAP SW RST |               |
| 06070   |        | XA443     | 61  |    | XA514  | 19        |     |       | 16B         | 9    |        |        | SPI039  | 22       | TM01A0      | 01             | 2   | TQ2                 | E4                 |                    | 32B    |                  |               |
| 04342   |        | XA443     | 62  |    |        |           |     |       |             |      |        |        | KSWB1S  | 02       | KSWB1R      | 01             | 1   | TQ2                 | E2                 |                    | 29A    |                  |               |
| 08005   |        | XA443     | 63  |    |        |           |     |       |             |      |        |        | TM01A0  | 02       | TM01A0      | 00             | 1   | TQ2                 | E4                 |                    | 33B    |                  |               |
| 17353   |        | XA443     | 64  |    |        |           |     |       |             |      |        |        | WKBS0A  | 02       | KSWB1R      | 01             | 2   | TQ2                 | E2                 |                    | 30A    |                  |               |
| 06027   |        | XA443     | 65  |    | XA337  | 51        |     |       | 16B         | 9    |        |        | JOFRAD4 | 01       | TOFRB0      | 01             | 1   | TQ2                 | F3                 |                    | 34B    |                  |               |
| 04652   |        | XA443     | 66  |    | XA406  | 09        |     |       | 16B         | 9    |        |        | REN20   | 01       | REN20       | 00             | 1   | TQ2                 | E1                 |                    | 31A    | RTC 2 ENABLE + M |               |
| 02885   |        | XA443     | 67  |    |        |           |     |       |             |      |        |        | GND     | 01       |             |                |     |                     |                    |                    | 40A    |                  |               |
| 04692   |        | XA443     | 68  |    | XA442  | 73        |     |       | 16B         | 9    |        |        | RTCCLB  | 07       | REN20       | 01             | 1   | TQ2                 | E1                 |                    | 32A    | MASTER RESET - F |               |
| 08006   |        | XA443     | 69  |    | XA319  | 76        |     |       | 16B         | 9    |        |        | TOFRB0  | 06       | TOFRB0      | 00             | 1   | TQ2                 | F3                 |                    | 35A    |                  |               |
| 04659   |        | XA443     | 70  |    |        |           |     |       |             |      |        |        | REN2A   | 02       | REN20       | 01             | 2   | TQ2                 | E1                 |                    | 33A    |                  |               |
| 06066   |        | XA443     | 71  |    | XA443  | 77        |     |       | 16B         | 9    |        |        | SPI039  | 18       |             | 01             | 1   | TQ2                 | F2                 |                    | 36A    |                  |               |
| 08007   |        | XA443     | 72  |    |        |           |     |       |             |      |        |        | SPO     | 01       |             | 00             | 1   | TQ2                 | F2                 |                    | 34A    |                  |               |
| 06019   |        | XA443     | 73  |    | XA443  | 79        |     |       | 16B         | 9    |        |        | SPI038  | 06       |             | 01             | 2   | TQ2                 | F2                 |                    | 36B    |                  |               |
| 06065   |        | XA443     | 74  |    | XA443  | 71        |     |       | 16B         | 9    |        |        | SPI039  | 17       | TOFRB0      | 01             | 2   | TQ2                 | F3                 |                    | 35B    |                  |               |
| 08008   |        | XA443     | 75  |    |        |           |     |       |             |      |        |        | SPO     | 01       |             | 00             | 1   | TQ2                 | F1                 |                    | 37B    |                  |               |
| 06018   |        | XA443     | 76  |    | XA443  | 73        |     |       | 16B         | 9    |        |        | SPI038  | 05       |             | 01             | 1   | TQ2                 | F4                 |                    | 37A    |                  |               |
| CONNECTOR XA443 CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |       |             |      |        |        |         |          |             |                |     |                     |                    |                    |        |                  |               |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA443  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 336

| RECORD NUMBER                                     | FROM   |           |     | TO  |        |           | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | PREFIX | CONNECTOR | PIN  | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 06067   |        | XA443     | 77  |     | XA442  | 80        |      |             | 16B  | 9     |        | SPI039 | 19       | 01   | 1      | TQ2              | F1    |                     | 38B                |                    |        |
| 06064   |        | XA443     | 78  |     | XA443  | 74        |      |             | 16B  | 9     |        | SPI039 | 16       | 01   | 2      | TQ2              | F4    |                     | 38A                |                    |        |
| 06020   |        | XA443     | 79  |     | XA442  | 77        |      |             | 16B  | 9     |        | SPI038 | 07       | 01   | 2      | TQ2              | F1    |                     | 39B                |                    |        |
| 08009   |        | XA443     | 80  |     |        |           |      |             |      |       |        | SPO    | 01       | 00   | 1      | TQ2              | F4    |                     | 39A                |                    |        |
| 09909   |        | XA444     | 01  |     |        |           |      |             |      |       |        | TCSR5A | 02       | 01   | 1      | TS8              | A1    |                     | 02B                |                    |        |
| 02886   |        | XA444     | 02  |     |        |           |      |             |      |       |        | GND    | 01       |      |        | TS8              |       |                     | 01A                |                    |        |
| 01539   |        | XA444     | 03  |     |        |           |      |             |      |       |        | DNW    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 09902   |        | XA444     | 04  |     | XA443  | 22        |      |             | 16B  | 9     |        | TCSR2A | 01       | 01   | 2      | TS8              | A1    |                     | 04A                |                    |        |
| 09906   |        | XA444     | 05  |     | XA443  | 21        |      |             | 16B  | 9     |        | TCSR4A | 01       | 01   | 3      | TS8              | A1    |                     | 03B                |                    |        |
| 09901   |        | XA444     | 06  |     |        |           |      |             |      |       |        | TCSR1A | 02       | 01   | 4      | TS8              | A1    |                     | 05A                |                    |        |
| 09905   |        | XA444     | 07  |     |        |           |      |             |      |       |        | TCSR3A | 02       | 01   | 5      | TS8              | A1    |                     | 03A                |                    |        |
| 09898   |        | XA444     | 08  |     | XA443  | 09        |      |             | 16B  | 9     |        | TCSROA | 01       | 01   | 6      | TS8              | A1    |                     | 06A                |                    |        |
| 01540   |        | XA444     | 09  |     |        |           |      |             |      |       |        | DNW    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 09913   |        | XA444     | 10  |     |        |           |      |             |      |       |        | TCSR7A | 01       | 01   | 7      | TS8              | A1    |                     | 07A                |                    |        |
| 00035   |        | XA444     | 11  |     | XA443  | 29        |      |             | 16B  | 9     |        | TCSMP  | 01       | 03   | 1      | TS8              | A1    |                     | 05C                | CH. SEL AND REQ    |        |
| 00642   |        | XA444     | 12  |     |        |           |      |             |      |       |        | +5V    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 09910   |        | XA444     | 13  |     | XA443  | 38        |      |             | 16B  | 9     |        | TCSR6A | 01       | 01   | 8      | TS8              | A1    |                     | 06B                |                    |        |
| 00749   |        | XA444     | 14  |     | XA439  | 57        |      |             | 16B  | 9     |        | TD10A  | 01       | 01   | 1      | TS8              | B1    |                     | 09A                | BIT 4 INPUT BUS    |        |
| 01541   |        | XA444     | 15  |     |        |           |      |             |      |       |        | DNW    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 02887   |        | XA444     | 16  |     |        |           |      |             |      |       |        | GND    | 01       |      |        | TS8              |       |                     | 21B                |                    |        |
| 01542   |        | XA444     | 17  |     |        |           |      |             |      |       |        | DNW    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 10777   |        | XA444     | 18  |     |        |           |      |             |      |       |        | TD11AA | 02       | 01   | 2      | TS8              | B1    |                     | 10A                | BIT 2 INPUT BUS    |        |
| 10804   |        | XA444     | 19  |     |        |           |      |             |      |       |        | TD12AA | 02       | 01   | 3      | TS8              | B1    |                     | 09B                | BIT 7 INPUT BUS    |        |
| 10831   |        | XA444     | 20  |     |        |           |      |             |      |       |        | TD13AA | 02       | 01   | 4      | TS8              | B1    |                     | 11A                | BIT 5 INPUT BUS    |        |
| 01543   |        | XA444     | 21  |     |        |           |      |             |      |       |        | DNW    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 10858   |        | XA444     | 22  |     |        |           |      |             |      |       |        | TD14AA | 02       | 01   | 5      | TS8              | B1    |                     | 12A                | BIT 6 INPUT BUS    |        |
| 13373   |        | XA444     | 23  |     | XA205  | 64        |      |             | 16B  | 9     |        | TINF10 | 01       | 00   | 1      | TS8              | B1    |                     | 11B                | ORED INFORMATION   |        |
| 10885   |        | XA444     | 24  |     |        |           |      |             |      |       |        | TD15AA | 02       | 01   | 6      | TS8              | B1    |                     | 13A                | BIT 1 INPUT BUS    |        |
| 10912   |        | XA444     | 25  |     |        |           |      |             |      |       |        | TD16AA | 02       | 01   | 7      | TS8              | B1    |                     | 12B                | BIT 0 INPUT BUS    |        |
| 10939   |        | XA444     | 26  |     |        |           |      |             |      |       |        | TD17AA | 02       | 01   | 8      | TS8              | B1    |                     | 14A                | BIT 3 INPUT BUS    |        |
| 01544   |        | XA444     | 27  |     |        |           |      |             |      |       |        | DNW    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 00643   |        | XA444     | 28  |     |        |           |      |             |      |       |        | +5V    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 01545   |        | XA444     | 29  |     |        |           |      |             |      |       |        | DNW    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 04682   |        | XA444     | 30  |     |        |           |      |             |      |       |        | RSWRQP | 02       | 01   | 1      | TS8              | C1    |                     | 15A                |                    |        |
| 04821   |        | XA444     | 31  |     | XA442  | 59        |      |             | 16B  | 9     |        | RTRQ3P | 01       | 01   | 2      | TS8              | C1    |                     | 15B                |                    |        |
| 02888   |        | XA444     | 32  |     |        |           |      |             |      |       |        | GND    | 01       |      |        | TS8              |       |                     | 27A                |                    |        |
| 01546   |        | XA444     | 33  |     |        |           |      |             |      |       |        | DNW    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 04826   |        | XA444     | 34  |     | XA442  | 57        |      |             | 16B  | 9     |        | RTRQ1P | 01       | 01   | 3      | TS8              | C1    |                     | 16A                |                    |        |
| 04680   |        | XA444     | 35  |     |        |           |      |             |      |       |        | RRQST0 | 02       | 00   | 1      | TS8              | C1    |                     | 17B                |                    |        |
| 04832   |        | XA444     | 36  |     |        |           |      |             |      |       |        | RTRQ2P | 02       | 01   | 4      | TS8              | C1    |                     | 17A                |                    |        |
| 05986   |        | XA444     | 37  |     | XA444  | 56        |      |             | 16B  | 9     |        | SPI037 | 04       | 01   | 5      | TS8              | C1    |                     | 18B                |                    |        |
| 06049   |        | XA444     | 38  |     | XA446  | 43        |      |             | 16B  | 9     |        | SPI039 | 01       | 01   | 6      | TS8              | C1    |                     | 18A                |                    |        |
| 01547   |        | XA444     | 39  |     |        |           |      |             |      |       |        | DNW    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 06035   |        | XA444     | 40  |     | XA444  | 43        |      |             | 16B  | 9     |        | SPI038 | 22       | 01   | 7      | TS8              | C1    |                     | 19A                |                    |        |
| 01548   |        | XA444     | 41  |     |        |           |      |             |      |       |        | DNW    | 01       |      |        | TS8              |       |                     |                    |                    |        |
| 05637   |        | XA444     | 42  |     | XA349  | 43        |      |             | 16B  | 9     |        | SPI026 | 29       | 01   | 8      | TS8              | C1    |                     | 20A                |                    |        |
| 06036   |        | XA444     | 43  |     | XA446  | 41        |      |             | 16B  | 9     |        | SPI038 | 23       | 01   | 1      | TS8              | D1    |                     | 23B                |                    |        |
| 02889   |        | XA444     | 44  |     |        |           |      |             |      |       |        | GND    | 01       |      |        | TS8              |       |                     | 40A                |                    |        |
| CONNECTOR (XA444) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |      |             |      |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA444  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 337

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT GRP CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCL OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|-------------|-------------------|-------|---------------------|---------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | THRU | PREFIX | CONNECTOR | PIN | THRU | MULTI GROUP | CODE | COLOR |        |        |          |             |                   |       |                     |                     |                    |                  |
| 01549   |        | XA444     | 45  |      |        |           |     |      |             |      |       | DNW    | 01     |          |             |                   |       |                     |                     |                    |                  |
| 05051   |        | XA444     | 46  |      | XA416  | 34        |     |      |             | 16B  | 9     | SPI007 | 13     |          | 01 2        | TS8               | D1    |                     | 21A                 |                    |                  |
| 08010   |        | XA444     | 47  |      |        |           |     |      |             |      |       | SPO    | 01     |          | 00 1        | TS8               | D1    |                     | 25B                 |                    |                  |
| 05636   |        | XA444     | 48  |      | XA444  | 42        |     |      |             | 16B  | 9     | SPI026 | 28     |          | 01 3        | TS8               | D1    |                     | 22A                 |                    |                  |
| 05016   |        | XA444     | 49  |      | XA444  | 66        |     |      |             | 16B  | 9     | SPI005 | 13     |          | 01 4        | TS8               | D1    |                     | 26B                 |                    |                  |
| 05028   |        | XA444     | 50  |      | XA444  | 68        |     |      |             | 16B  | 9     | SPI006 | 05     |          | 01 5        | TS8               | D1    |                     | 23A                 |                    |                  |
| 01550   |        | XA444     | 51  |      |        |           |     |      |             |      |       | DNW    | 01     |          |             | TS8               |       |                     |                     |                    |                  |
| 05065   |        | XA444     | 52  |      |        |           |     |      |             |      |       | SPI008 | 13     |          | 01 6        | TS8               | D1    |                     | 24A                 |                    |                  |
| 01551   |        | XA444     | 53  |      |        |           |     |      |             |      |       | DNW    | 01     |          |             | TS8               |       |                     |                     |                    |                  |
| 06059   |        | XA444     | 54  |      | XA444  | 60        |     |      |             | 16B  | 9     | SPI039 | 11     |          | 01 7        | TS8               | D1    |                     | 25A                 |                    |                  |
| 05050   |        | XA444     | 55  |      | XA444  | 46        |     |      |             | 16B  | 9     | SPI007 | 12     |          | 01 1        | TS8               | E1    |                     | 29B                 |                    |                  |
| 05987   |        | XA444     | 56  |      | XA444  | 61        |     |      |             | 16B  | 9     | SPI037 | 05     |          | 01 8        | TS8               | D1    |                     | 26A                 |                    |                  |
| 01552   |        | XA444     | 57  |      |        |           |     |      |             |      |       | DNW    | 01     |          |             | TS8               |       |                     |                     |                    |                  |
| 02890   |        | XA444     | 58  |      |        |           |     |      |             |      |       | GND    | 01     |          |             | TS8               |       |                     |                     |                    |                  |
| 08011   |        | XA444     | 59  |      |        |           |     |      |             |      |       | SPO    | 01     |          | 00 1        | TS8               | E1    |                     | 31B                 |                    |                  |
| 06060   |        | XA444     | 60  |      | XA445  | 69        |     |      |             | 16B  | 9     | SPI039 | 12     |          | 01 2        | TS8               | E1    |                     | 28A                 |                    |                  |
| 05988   |        | XA444     | 61  |      | XA445  | 78        |     |      |             | 16B  | 9     | SPI037 | 06     |          | 01 3        | TS8               | E1    |                     | 32B                 |                    |                  |
| 06014   |        | XA444     | 62  |      | XA444  | 78        |     |      |             | 16B  | 9     | SPI038 | 01     |          | 01 4        | TS8               | E1    |                     | 29A                 |                    |                  |
| 01553   |        | XA444     | 63  |      |        |           |     |      |             |      |       | DNW    | 01     |          |             | TS8               |       |                     |                     |                    |                  |
| 05064   |        | XA444     | 64  |      | XA444  | 52        |     |      |             | 16B  | 9     | SPI008 | 12     |          | 01 5        | TS8               | E1    |                     | 30A                 |                    |                  |
| 01554   |        | XA444     | 65  |      |        |           |     |      |             |      |       | DNW    | 01     |          |             | TS8               |       |                     |                     |                    |                  |
| 05017   |        | XA444     | 66  |      | XA444  | 74        |     |      |             | 16B  | 9     | SPI005 | 14     |          | 01 6        | TS8               | E1    |                     | 31A                 |                    |                  |
| 02891   |        | XA444     | 67  |      |        |           |     |      |             |      |       | GND    | 01     |          |             | TS8               |       |                     |                     |                    |                  |
| 05029   |        | XA444     | 68  |      | XA444  | 73        |     |      |             | 16B  | 9     | SPI006 | 06     |          | 01 7        | TS8               | E1    |                     | 32A                 |                    |                  |
| 01555   |        | XA444     | 69  |      |        |           |     |      |             |      |       | DNW    | 01     |          |             | TS8               |       |                     |                     |                    |                  |
| 05635   |        | XA444     | 70  |      | XA444  | 48        |     |      |             | 16B  | 9     | SPI026 | 27     |          | 01 8        | TS8               | E1    |                     | 33A                 |                    |                  |
| 05063   |        | XA444     | 71  |      | XA444  | 64        |     |      |             | 16B  | 9     | SPI008 | 11     |          | 01 1        | TS8               | F1    |                     | 36A                 |                    |                  |
| 05634   |        | XA444     | 72  |      | XA444  | 70        |     |      |             | 16B  | 9     | SPI026 | 26     |          | 01 2        | TS8               | F1    |                     | 34A                 |                    |                  |
| 05030   |        | XA444     | 73  |      | XA433  | 72        |     |      |             | 16B  | 9     | SPI006 | 07     |          | 01 3        | TS8               | F1    |                     | 36B                 |                    |                  |
| 05018   |        | XA444     | 74  |      | XA547  | 70        |     |      |             | 16B  | 9     | SPI005 | 15     |          | 01 4        | TS8               | F1    |                     | 35B                 |                    |                  |
| 05991   |        | XA444     | 75  |      | XA441  | 74        |     |      |             | 16B  | 9     | SPI037 | 09     |          | 01 5        | TS8               | F1    |                     | 37B                 |                    |                  |
| 08012   |        | XA444     | 76  |      |        |           |     |      |             |      |       | SPO    | 01     |          | 00 1        | TS8               | F1    |                     | 37A                 |                    |                  |
| 06063   |        | XA444     | 77  |      | XA443  | 78        |     |      |             | 16B  | 9     | SPI039 | 15     |          | 01 6        | TS8               | F1    |                     | 38B                 |                    |                  |
| 06015   |        | XA444     | 78  |      | XA445  | 76        |     |      |             | 16B  | 9     | SPI038 | 02     |          | 01 7        | TS8               | F1    |                     | 38A                 |                    |                  |
| 05049   |        | XA444     | 79  |      | XA444  | 55        |     |      |             | 16B  | 9     | SPI007 | 11     |          | 01 8        | TS8               | F1    |                     | 39B                 |                    |                  |
| 01556   |        | XA444     | 80  |      |        |           |     |      |             |      |       | DNW    | 01     |          |             | TS8               |       |                     |                     |                    |                  |
| 11020   |        | XA445     | 01  |      |        |           |     |      |             |      |       | TDL21A | 02     | TDL2A0   | 01 1        | TT3               | A2    |                     | 02B                 |                    |                  |
| 02892   |        | XA445     | 02  |      |        |           |     |      |             |      |       | GND    | 01     |          |             | TT3               |       |                     | 01B                 |                    |                  |
| 06044   |        | XA445     | 03  |      | XA443  | 08        |     |      |             | 16B  | 9     | SPI038 | 31     | TDL2A0   | 01 2        | TT3               | A2    |                     | 02A                 |                    |                  |
| 11004   |        | XA445     | 04  |      |        |           |     |      |             |      |       | TDL1A0 | 08     | TDL1A0   | 02 1        | TT3               | A1    |                     | 04A                 |                    | OR'D DATA LINE 1 |
| 11022   |        | XA445     | 05  |      |        |           |     |      |             |      |       | TDL23A | 02     | TDL2A0   | 01 3        | TT3               | A2    |                     | 03B                 |                    |                  |
| 11008   |        | XA445     | 06  |      |        |           |     |      |             |      |       | TDL13A | 02     | TDL1A0   | 01 1        | TT3               | A1    |                     | 05A                 |                    |                  |
| 11009   |        | XA445     | 07  |      | XA546  | 08        |     |      |             | 16B  | 9     | TDL2A0 | 01     | TDL2A0   | 00 1        | TT3               | A2    |                     | 03A                 |                    | OR'D DATA LINE 2 |
| 06043   |        | XA445     | 08  |      | XA445  | 03        |     |      |             | 16B  | 9     | SPI038 | 30     | TDL1A0   | 01 2        | TT3               | A1    |                     | 06A                 |                    |                  |
| 11035   |        | XA445     | 09  |      |        |           |     |      |             |      |       | TDL33A | 02     | TDL3A0   | 01 1        | TT3               | A3    |                     | 04B                 |                    |                  |
| 11006   |        | XA445     | 10  |      |        |           |     |      |             |      |       | TDL11A | 02     | TDL1A0   | 01 3        | TT3               | A1    |                     | 07A                 |                    |                  |
| 11033   |        | XA445     | 11  |      |        |           |     |      |             |      |       | TDL31A | 02     | TDL3A0   | 01 2        | TT3               | A3    |                     | 05B                 |                    |                  |
| 00644   |        | XA445     | 12  |      |        |           |     |      |             |      |       | +5V    | 01     |          |             | TT3               |       |                     |                     |                    |                  |
| CONNECTOR (XA445) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |        |        |          |             |                   |       |                     |                     |                    |                  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA445  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 338

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE  |             |      |       |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OP CHIP TYPE | GROUP | LOAD OR POWER PL INZ | TEST POINTS AND OF     | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|-------|-------------|------|-------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|----------------------|------------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |        |                  |       |                      |                        |                    |        |
| 06041         |        | XA445     | 13                              |        | XA445     | 14  |       |             | 16B  | 9     |       | SPI038        | 28     | TDL3A0 | 01       | 3    | TT3    | A3               |       | 06B                  |                        |                    |        |
| 06042         |        | XA445     | 14                              |        | XA445     | 08  |       |             | 16B  | 9     |       | SPI038        | 29     | TDL5A0 | 01       | 1    | TT3    | B2               |       | 09A                  |                        |                    |        |
| 11031         |        | XA445     | 15                              |        |           |     |       |             |      |       |       | TDL3A0        | 09     | TDL3A0 | 00       | 1    | TT3    | A3               |       | 07B                  | OR'D DATA LINE 3       |                    |        |
| 02893         |        | XA445     | 16                              |        |           |     |       |             |      |       |       | GND           | 01     |        |          |      | TT3    |                  |       | 21B                  |                        |                    |        |
| 11059         |        | XA445     | 17                              |        |           |     |       |             |      |       |       | TDL51A        | 02     | TDL5A0 | 01       | 2    | TT3    | B2               |       | 08B                  |                        |                    |        |
| 11061         |        | XA445     | 18                              |        |           |     |       |             |      |       |       | TDL53A        | 02     | TDL5A0 | 01       | 3    | TT3    | B2               |       | 10A                  |                        |                    |        |
| 11057         |        | XA445     | 19                              |        |           |     |       |             |      |       |       | TDL5A0        | 09     | TDL5A0 | 00       | 1    | TT3    | B2               |       | 09B                  | OR'D DATA LINE 5       |                    |        |
| 11044         |        | XA445     | 20                              |        |           |     |       |             |      |       |       | TDL4A0        | 09     | TDL4A0 | 00       | 1    | TT3    | B1               |       | 11A                  | OR'D DATA LINE 4       |                    |        |
| 11073         |        | XA445     | 21                              |        |           |     |       |             |      |       |       | TDL63A        | 02     | TDL6A0 | 01       | 1    | TT3    | B3               |       | 10B                  |                        |                    |        |
| 11046         |        | XA445     | 22                              |        |           |     |       |             |      |       |       | TDL41A        | 02     | TDL4A0 | 01       | 1    | TT3    | B1               |       | 12A                  |                        |                    |        |
| 06040         |        | XA445     | 23                              |        | XA445     | 13  |       |             | 16B  | 9     |       | SPI038        | 27     | TDL6A0 | 01       | 2    | TT3    | B3               |       | 11B                  |                        |                    |        |
| 06039         |        | XA445     | 24                              |        | XA445     | 23  |       |             | 16B  | 9     |       | SPI038        | 26     | TDL4A0 | 01       | 2    | TT3    | B1               |       | 13A                  |                        |                    |        |
| 11071         |        | XA445     | 25                              |        |           |     |       |             |      |       |       | TDL61A        | 02     | TDL6A0 | 01       | 3    | TT3    | B3               |       | 12B                  |                        |                    |        |
| 11048         |        | XA445     | 26                              |        |           |     |       |             |      |       |       | TDL43A        | 02     | TDL4A0 | 01       | 3    | TT3    | B1               |       | 14A                  |                        |                    |        |
| 11069         |        | XA445     | 27                              |        |           |     |       |             |      |       |       | TDL6A0        | 08     | TDL6A0 | 00       | 1    | TT3    | B3               |       | 13B                  | OR'D DATA LINE 6       |                    |        |
| 00645         |        | XA445     | 28                              |        |           |     |       |             |      |       |       | +5V           | 01     |        |          |      | TT3    |                  |       |                      |                        |                    |        |
| 15654         |        | XA445     | 29                              |        |           |     |       |             |      |       |       | TSS6CQ        | 05     | TSS12A | 01       | 1    | TT3    | C2               |       | 14B                  |                        |                    |        |
| 15644         |        | XA445     | 30                              |        | XA442     | 43  |       |             | 16B  | 9     |       | TSS6BQ        | 01     | TSS12A | 01       | 2    | TT3    | C2               |       | 15A                  |                        |                    |        |
| 15662         |        | XA445     | 31                              |        | XA446     | 47  |       |             | 16B  | 9     |       | TSS12A        | 01     | TSS12A | 00       | 1    | TT3    | C2               |       | 15B                  | CLEAR STOP7 CONTR      |                    |        |
| 02894         |        | XA445     | 32                              |        |           |     |       |             |      |       |       | GND           | 01     |        |          |      | TT3    |                  |       | 27A                  |                        |                    |        |
| 15424         |        | XA445     | 33                              |        |           |     |       |             |      |       |       | TRQ7A0        | 02     | TRQ7AA | 01       | 1    | TT3    | C3               |       | 16B                  | *                      |                    |        |
| 15636         |        | XA445     | 34                              |        | XA442     | 48  |       |             | 16B  | 9     |       | TSSGAQ        | 01     | TSS12A | 01       | 3    | TT3    | C2               |       | 16A                  |                        |                    |        |
| 15728         |        | XA445     | 35                              |        | XA440     | 08  |       |             | 16B  | 9     |       | TSD0A0        | 05     | TRQ7AA | 01       | 2    | TT3    | C3               |       | 17B                  |                        |                    |        |
| 12927         |        | XA445     | 36                              |        | XA446     | 20  |       |             | 16B  | 9     |       | TFIOCS        | 02     | TFIOCS | 00       | 1    | TT3    | C1               |       | 17A                  | CPU STP R/C CONTRL B05 |                    |        |
| 17424         |        | XA445     | 37                              |        | XA318     | 54  |       |             | 16B  | 9     |       | WR70LA        | 01     | TRQ7AA | 01       | 3    | TT3    | C3               |       | 18B                  |                        |                    |        |
| 12946         |        | XA445     | 38                              |        | XA437     | 76  |       |             | 16B  | 9     |       | TFIOUA        | 01     | TFIOCS | 01       | 1    | TT3    | C1               |       | 18A                  |                        | E03                |        |
| 15417         |        | XA445     | 39                              |        |           |     |       |             |      |       |       | TRQ7AA        | 02     | TRQ7AA | 00       | 1    | TT3    | C3               |       | 19B                  | REQ 7 STATE 0          |                    |        |
| 12945         |        | XA445     | 40                              |        |           |     |       |             |      |       |       | TFIOUA        | 03     | TFIOCS | 01       | 2    | TT3    | C1               |       | 19A                  |                        |                    |        |
| 04829         |        | XA445     | 41                              |        | XA442     | 55  |       |             | 16B  | 9     |       | RTRQIQ        | 02     | RTT01A | 01       | 1    | TT3    | D2               |       | 22B                  |                        |                    |        |
| 12923         |        | XA445     | 42                              |        | XA446     | 30  |       |             | 16B  | 9     |       | TFIOCR        | 01     | TFIOCS | 01       | 3    | TT3    | C1               |       | 20A                  |                        |                    |        |
| 04838         |        | XA445     | 43                              |        | XA441     | 79  |       |             | 16B  | 9     |       | RTT01A        | 01     | RTT01A | 00       | 1    | TT3    | D2               |       | 23B                  | RTC 1 TIMEOUT          |                    |        |
| 02895         |        | XA445     | 44                              |        |           |     |       |             |      |       |       | GND           | 01     |        |          |      | TT3    |                  |       | 40A                  |                        |                    |        |
| 04737         |        | XA445     | 45                              |        |           |     |       |             |      |       |       | RTCN0Q        | 04     | RTT02A | 01       | 1    | TT3    | D3               |       | 24B                  |                        |                    |        |
| 04741         |        | XA445     | 46                              |        | XA445     | 71  |       |             | 16B  | 9     |       | RTCN1P        | 04     | RTT01A | 01       | 2    | TT3    | D2               |       | 21A                  |                        |                    |        |
| 04740         |        | XA445     | 47                              |        | XA445     | 46  |       |             | 16B  | 9     |       | RTCN1P        | 03     | RTT02A | 01       | 2    | TT3    | D3               |       | 25B                  |                        |                    |        |
| 04729         |        | XA445     | 48                              |        | XA445     | 52  |       |             | 16B  | 9     |       | RTCNOP        | 01     | RTT01A | 01       | 3    | TT3    | D2               |       | 22A                  |                        |                    |        |
| 04833         |        | XA445     | 49                              |        | XA407     | 05  |       |             | 16B  | 9     |       | RTRQ2Q        | 01     | RTT02A | 01       | 3    | TT3    | D3               |       | 26B                  |                        |                    |        |
| 04837         |        | XA445     | 50                              |        |           |     |       |             |      |       |       | RTT00A        | 02     | RTT00A | 00       | 1    | TT3    | D1               |       | 23A                  | RTC 0 TIMEOUT          |                    |        |
| 04841         |        | XA445     | 51                              |        |           |     |       |             |      |       |       | RTT02A        | 02     | RTT02A | 00       | 1    | TT3    | D3               |       | 27B                  | RTC 2 TIMECUT          |                    |        |
| 04730         |        | XA445     | 52                              |        | XA445     | 72  |       |             | 16B  | 9     |       | RTCNOP        | 02     | RTT00A | 01       | 1    | TT3    | D1               |       | 24A                  |                        |                    |        |
| 04689         |        | XA445     | 53                              |        | XA445     | 57  |       |             | 16B  | 9     |       | RTCLB         | 04     | RTEN1R | 01       | 1    | TT3    | E2               |       | 28B                  | MASTER RESET - F       |                    |        |
| 04824         |        | XA445     | 54                              |        | XA442     | 61  |       |             | 16B  | 9     |       | RTRQ0Q        | 02     | RTT00A | 01       | 2    | TT3    | D1               |       | 25A                  |                        |                    |        |
| 04812         |        | XA445     | 55                              |        |           |     |       |             |      |       |       | RTEN1R        | 02     | RTEN1R | 00       | 1    | TT3    | E2               |       | 29B                  | RTC 1 ENABLE-RES       |                    |        |
| 04747         |        | XA445     | 56                              |        |           |     |       |             |      |       |       | RTCN1Q        | 04     | RTT00A | 01       | 3    | TT3    | D1               |       | 26A                  |                        |                    |        |
| 04690         |        | XA445     | 57                              |        | XA445     | 68  |       |             | 16B  | 9     |       | RTCLB         | 05     | RTEN2R | 01       | 1    | TT3    | E3               |       | 30B                  | MASTER RESET - F       |                    |        |
| 02896         |        | XA445     | 58                              |        |           |     |       |             |      |       |       | GND           | 01     |        |          |      | TT3    |                  |       | 40B                  |                        |                    |        |
| 04819         |        | XA445     | 59                              |        | XA446     | 63  |       |             | 16B  | 9     |       | RTEN2S        | 02     | RTEN2R | 01       | 2    | TT3    | E3               |       | 31B                  |                        |                    |        |
| 04634         |        | XA445     | 60                              |        | XA407     | 21  |       |             | 16B  | 9     |       | RD321A        | 01     | RTEN1R | 01       | 2    | TT3    | E2               |       | 28A                  |                        |                    |        |
| 04637         |        | XA445     | 61                              |        |           |     |       |             |      |       |       | RD322A        | 02     | RTEN2R | 01       | 3    | TT3    | E3               |       | 32B                  |                        |                    |        |
| 04814         |        | XA445     | 62                              |        | XA446     | 57  |       |             | 16B  | 9     |       | RTEN1S        | 02     | RTEN1R | 01       | 3    | TT3    | E2               |       | 29A                  |                        |                    |        |
| CONNECTOR     |        | XA445     | CONTINUED ON THE NEXT PAGE **** |        |           |     |       |             |      |       |       |               |        |        |          |      |        |                  |       |                      |                        |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA445  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 339

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OF POWER PLANE | TEST POINTS AND DR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | IN FC | PREFIX | CONNECTOR | PIN | IN FC | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 04817   |        | XA445     | 63  |       |        |           |     |       |             |      |       |       | RTEN2R  | 02     | RTEN2R   | 00   | 1      | TT3              | E3    |                     | 33B                | RTC 2 ENABLE-RES   |        |
| 04807   |        | XA445     | 64  |       |        |           |     |       |             |      |       |       | RTENOR  | 02     | RTENOR   | 00   | 1      | TT3              | E1    |                     | 30A                | RTC 0 ENABLE-RES   |        |
| 04713   |        | XA445     | 65  |       | XA407  | 08        |     |       | 16B         | 9    |       |       | RTCIOR  | 02     | RTCL0A   | 01   | 1      | TT3              | F2    |                     | 34B                |                    |        |
| 04633   |        | XA445     | 66  |       |        |           |     |       |             |      |       |       | RD320A  | 02     | RTENOR   | 01   | 1      | TT3              | E1    |                     | 31A                |                    |        |
| 02897   |        | XA445     | 67  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | TT3              |       |                     |                    |                    |        |
| 04691   |        | XA445     | 68  |       | XA443  | 68        |     |       | 16B         | 9    |       |       | RTCCLB  | 06     | RTENOR   | 01   | 2      | TT3              | E1    |                     | 32A                | MASTER RESET - F   |        |
| 06061   |        | XA445     | 69  |       | XA445  | 77        |     |       | 16B         | 9    |       |       | SPI039  | 13     |          |      |        | TT3              | F3    |                     | 35A                |                    |        |
| 04809   |        | XA445     | 70  |       | XA446  | 60        |     |       | 16B         | 9    |       |       | RTENOS  | 02     | RTENOR   | 01   | 3      | TT3              | E1    |                     | 33A                |                    |        |
| 04742   |        | XA445     | 71  |       | XA446  | 76        |     |       | 16B         | 9    |       |       | RTCNLP  | 05     | RTCL0A   | 01   | 2      | TT3              | F2    |                     | 36A                |                    |        |
| 04731   |        | XA445     | 72  |       | XA442  | 69        |     |       | 16B         | 9    |       |       | RTCNOP  | 03     | RTCL0A   | 01   | 3      | TT3              | F2    |                     | 34A                |                    |        |
| 08013   |        | XA445     | 73  |       |        |           |     |       |             |      |       |       | SPO     | 01     |          |      |        | TT3              | F1    |                     | 36B                |                    |        |
| 04717   |        | XA445     | 74  |       | XA406  | 11        |     |       | 16B         | 9    |       |       | RTCL0A  | 01     | RTCL0A   | 00   | 1      | TT3              | F2    |                     | 35B                | (RTC 0) (MASTER R  |        |
| 06017   |        | XA445     | 75  |       | XA443  | 76        |     |       | 16B         | 9    |       |       | SPI038  | 04     |          |      |        | TT3              | F1    |                     | 37B                |                    |        |
| 06016   |        | XA445     | 76  |       | XA445  | 75        |     |       | 16B         | 9    |       |       | SPI038  | 03     |          |      |        | TT3              | F3    |                     | 37A                |                    |        |
| 06062   |        | XA445     | 77  |       | XA444  | 77        |     |       | 16B         | 9    |       |       | SPI039  | 14     |          |      |        | TT3              | F1    |                     | 38B                |                    |        |
| 05989   |        | XA445     | 78  |       | XA445  | 79        |     |       | 16B         | 9    |       |       | SPI037  | 07     |          |      |        | TT3              | F3    |                     | 38A                |                    |        |
| 05990   |        | XA445     | 79  |       | XA444  | 75        |     |       | 16B         | 9    |       |       | SPI037  | 08     |          |      |        | TT3              | F1    |                     | 39B                |                    |        |
| 08014   |        | XA445     | 80  |       |        |           |     |       |             |      |       |       | SPO     | 01     |          |      |        | TT3              | F3    |                     | 39A                |                    |        |
| 11082   |        | XA446     | 01  |       | XA407  | 42        |     |       | 16B         | 9    |       |       | TDL71A  | 01     | TDL71A   | 00   | 1      | TQ2              | A2    |                     | 02B                | IOM* ADD 7 TO IN   |        |
| 02898   |        | XA446     | 02  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |        |
| 09727   |        | XA446     | 03  |       |        |           |     |       |             |      |       |       | TCENIO  | 09     | TDL11A   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 09726   |        | XA446     | 04  |       | XA446  | 03        |     |       | 16B         | 9    |       |       | TCENIO  | 08     | TDL71A   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 10622   |        | XA446     | 05  |       | XA439  | 53        |     |       | 16B         | 9    |       |       | TDA780  | 01     | TDL71A   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 10993   |        | XA446     | 06  |       | XA443  | 56        |     |       | 16B         | 9    |       |       | TDL01A  | 01     | TDL01A   | 00   | 1      | TQ2              | A1    |                     | 05A                | IOM* ADD 0 TO IN   |        |
| 10594   |        | XA446     | 07  |       | XA439  | 42        |     |       | 16B         | 9    |       |       | TDA180  | 02     | TDL11A   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 10588   |        | XA446     | 08  |       | XA439  | 37        |     |       | 16B         | 9    |       |       | TDA080  | 01     | TDL01A   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 11005   |        | XA446     | 09  |       | XA445  | 10        |     |       | 16B         | 9    |       |       | TDL11A  | 01     | TDL11A   | 00   | 1      | TQ2              | A3    |                     | 04B                | IOM* ADD 1 TO IN   |        |
| 09725   |        | XA446     | 10  |       | XA446  | 04        |     |       | 16B         | 9    |       |       | TCENIO  | 07     | TDL01A   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 03781   |        | XA446     | 11  |       |        |           |     |       |             |      |       |       | JMTSAB4 | 06     | KMR060   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00646   |        | XA446     | 12  |       |        |           |     |       |             |      |       |       | +5V     | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 20246   |        | XA446     | 13  |       |        |           |     |       |             |      |       |       | JMTSBB4 | 02     | KMR060   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 14381   |        | XA446     | 14  |       | XA421  | 15        |     |       | 16B         | 9    |       |       | TMTSAA  | 01     | TMTSAA   | 00   | 1      | TQ2              | B2    |                     | 09A                | RESET CPU          |        |
| 04160   |        | XA446     | 15  |       | XA346  | 78        |     |       | 16B         | 9    |       |       | KMR060  | 01     | KMR060   | 00   | 1      | TQ2              | A4    |                     | 07B                | IOM ADD BIT 0 TO   |        |
| 02899   |        | XA446     | 16  |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 09724   |        | XA446     | 17  |       | XA446  | 10        |     |       | 16B         | 9    |       |       | TCENIO  | 06     | TDL31A   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 12932   |        | XA446     | 18  |       | XA249  | 04        |     |       | 16B         | 9    |       |       | TFIOCO  | 05     | TMTSAA   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 10603   |        | XA446     | 19  |       | XA439  | 48        |     |       | 16B         | 9    |       |       | TDA380  | 01     | TDL31A   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 12939   |        | XA446     | 20  |       |        |           |     |       | 16B         | 9    |       |       | TFIOCS  | 03     | TMTSAA   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    | B05    |
| 11032   |        | XA446     | 21  |       | XA445  | 11        |     |       | 16B         | 9    |       |       | TDL31A  | 01     | TDL31A   | 00   | 1      | TQ2              | B3    |                     | 10B                | IOM* ADD 3 TO IN   |        |
| 11019   |        | XA446     | 22  |       | XA445  | 01        |     |       | 16B         | 9    |       |       | TDL21A  | 01     | TDL21A   | 00   | 1      | TQ2              | B1    |                     | 12A                | IOM* ADD 2 TO IN   |        |
| 06038   |        | XA446     | 23  |       | XA445  | 24        |     |       | 16B         | 9    |       |       | SPI038  | 25     |          |      |        | TQ2              | B4    |                     | 11B                |                    |        |
| 10599   |        | XA446     | 24  |       | XA439  | 54        |     |       | 16B         | 9    |       |       | TDA280  | 02     | TDL21A   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 06051   |        | XA446     | 25  |       | XA443  | 10        |     |       | 16B         | 9    |       |       | SPI039  | 03     |          |      |        | TQ2              | B4    |                     | 12B                |                    |        |
| 09722   |        | XA446     | 26  |       | XA446  | 29        |     |       | 16B         | 9    |       |       | TCENIO  | 04     | TDL21A   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 08015   |        | XA446     | 27  |       |        |           |     |       |             |      |       |       | SPO     | 01     |          |      |        | TQ2              | B4    |                     | 13B                |                    |        |
| 00647   |        | XA446     | 28  |       |        |           |     |       |             |      |       |       | +5V     | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 09723   |        | XA446     | 29  |       | XA446  | 17        |     |       | 16B         | 9    |       |       | TCENIO  | 05     | TDL51A   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 12924   |        | XA446     | 30  |       | XA249  | 05        |     |       | 16B         | 9    |       |       | TFIOCR  | 02     | TFIOCR   | 00   | 1      | TQ2              | C2    |                     | 15A                |                    |        |
| CONNECTOR (XA446) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA446  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 340

| RECORD NUMBER | FROM   |           |     | TO    |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | T.C.O NO |
|---------------|--------|-----------|-----|-------|-----|-------|-------------|------|-------|-------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|----------|
|               | PREFIX | CONNECTOR | PIN | PIN   | PIN | IN FC | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |        |        |                  |       |                     |                    |                    |          |
| 10614         | XA446  | 31        |     | XA439 | 43  |       |             | 16B  | 9     |       |        | TDA5B0 | 01       | TDL51A | 01     | 2                | TQ2   | C3                  | 15B                |                    |          |
| 02900         | XA446  | 32        |     |       |     |       |             |      |       |       |        | GND    | 01       |        |        |                  |       |                     | 20B                |                    |          |
| 11058         | XA446  | 33        |     | XA445 | 17  |       |             | 16B  | 9     |       |        | TDL51A | 01       | TDL51A | 00     | 1                | TQ2   | C3                  | 16B                | IOM* ADD 5 TO IN   |          |
| 15659         | XA446  | 34        |     |       |     |       |             |      |       |       |        | TSS11A | 03       | TFIOCR | 01     | 1                | TQ2   | C2                  | 16A                |                    |          |
| 12931         | XA446  | 35        |     |       |     |       |             |      |       |       |        | TFIOAS | 05       | TFIOAR | 01     | 1                | TQ2   | C4                  | 17B                |                    | 805      |
| 12926         | XA446  | 36        |     | XA445 | 36  |       |             | 16B  | 9     |       |        | TFIOCS | 01       | TFIOCR | 01     | 2                | TQ2   | C2                  | 17A                |                    |          |
| 12940         | XA446  | 37        |     | XA442 | 50  |       |             | 16B  | 9     |       |        | TFIOSA | 04       | TFIOAR | 01     | 2                | TQ2   | C4                  | 18B                |                    | 805      |
| 11045         | XA446  | 38        |     | XA445 | 22  |       |             | 16B  | 9     |       |        | TDL41A | 01       | TDL41A | 00     | 1                | TQ2   | C1                  | 18A                | IOM* ADD 4 TO IN   |          |
| 12934         | XA446  | 39        |     | XA421 | 09  |       |             | 16B  | 9     |       |        | TFIOAR | 01       | TFIOAR | 00     | 1                | TQ2   | C4                  | 19B                | IOU RESET          |          |
| 09721         | XA446  | 40        |     | XA446 | 26  |       |             | 16B  | 9     |       |        | TCENIO | 03       | TDL41A | 01     | 1                | TQ2   | C1                  | 19A                |                    |          |
| 06037         | XA446  | 41        |     | XA446 | 23  |       |             | 16B  | 9     |       |        | SPI038 | 24       |        | 01     | 1                | TQ2   | D3                  | 22B                |                    |          |
| 10610         | XA446  | 42        |     | XA439 | 46  |       |             | 16B  | 9     |       |        | TDA4B0 | 01       | TDL41A | 01     | 2                | TQ2   | C1                  | 20A                |                    |          |
| 06050         | XA446  | 43        |     | XA446 | 25  |       |             | 16B  | 9     |       |        | SPI039 | 02       |        | 01     | 2                | TQ2   | D3                  | 23B                |                    |          |
| 02901         | XA446  | 44        |     |       |     |       |             |      |       |       |        | GND    | 01       |        |        |                  |       |                     | 21B                |                    |          |
| 08016         | XA446  | 45        |     |       |     |       |             |      |       |       |        | SPO    | 01       |        | 00     | 1                | TQ2   | D3                  | 24B                |                    |          |
| 04341         | XA446  | 46        |     | XA443 | 62  |       |             | 16B  | 9     |       |        | KSWB1S | J1       | KSWB1S | 00     | 1                | TQ2   | D2                  | 21A                | BOOTSTRAP SWCH SET |          |
| 15663         | XA446  | 47        |     |       |     |       |             |      |       |       |        | TSS12A | 02       | TFIOAR | 01     | 1                | TQ2   | D4                  | 25B                |                    |          |
| 04336         | XA446  | 48        |     | XA443 | 60  |       |             | 16B  | 9     |       |        | KSWB1R | 02       | KSWB1S | 01     | 1                | TQ2   | D2                  | 22A                |                    |          |
| 12920         | XA446  | 49        |     | XA446 | 35  |       |             | 16B  | 9     |       |        | TFIOAS | 04       | TFIOAR | 01     | 2                | TQ2   | D4                  | 26B                |                    | 805      |
| 17350         | XA446  | 50        |     | XA331 | 24  |       |             | 16B  | 9     |       |        | WKBSA  | 01       | KSWB1S | 01     | 2                | TQ2   | D2                  | 23A                |                    |          |
| 12916         | XA446  | 51        |     |       |     |       |             |      |       |       |        | TFIOAR | 02       | TFIOAR | 00     | 1                | TQ2   | D4                  | 27B                | CLK ADD REG 0-3    |          |
| 11070         | XA446  | 52        |     | XA445 | 25  |       |             | 16B  | 9     |       |        | TDL61A | 01       | TDL61A | 00     | 1                | TQ2   | D1                  | 24A                | IOM* ADD 6 TO IN   |          |
| 04811         | XA446  | 53        |     | XA445 | 55  |       |             | 16B  | 9     |       |        | RTEN1R | 01       | RTEN1S | 01     | 1                | TQ2   | E3                  | 28B                |                    |          |
| 10618         | XA446  | 54        |     | XA439 | 49  |       |             | 16B  | 9     |       |        | TDA6B0 | 01       | TDL61A | 01     | 1                | TQ2   | D1                  | 25A                |                    |          |
| 04629         | XA446  | 55        |     |       |     |       |             |      |       |       |        | RD317A | 02       | RTEN1S | 01     | 2                | TQ2   | E3                  | 29B                |                    |          |
| 09720         | XA446  | 56        |     | XA446 | 40  |       |             | 16B  | 9     |       |        | TCENIO | 02       | TDL61A | 01     | 2                | TQ2   | D1                  | 26A                |                    |          |
| 04815         | XA446  | 57        |     |       |     |       |             |      |       |       |        | RTEN1S | 03       | RTEN1S | 00     | 1                | TQ2   | E3                  | 30B                | RTC 1 ENABLE-SET   |          |
| 02902         | XA446  | 58        |     |       |     |       |             |      |       |       |        | GND    | 01       |        |        |                  |       |                     | 27A                |                    |          |
| 04816         | XA446  | 59        |     | XA445 | 63  |       |             | 16B  | 9     |       |        | RTEN2R | 01       | RTEN2S | 01     | 1                | TQ2   | E4                  | 31B                |                    |          |
| 04810         | XA446  | 60        |     |       |     |       |             |      |       |       |        | RTEN0S | 03       | RTEN0S | 00     | 1                | TQ2   | E2                  | 28A                | RTC 0 ENABLE-SET   |          |
| 04630         | XA446  | 61        |     | XA407 | 22  |       |             | 16B  | 9     |       |        | RD318A | 01       | RTEN2S | 01     | 2                | TQ2   | E4                  | 32B                |                    |          |
| 04626         | XA446  | 62        |     | XA407 | 09  |       |             | 16B  | 9     |       |        | RD316A | 01       | RTEN0S | 01     | 1                | TQ2   | E2                  | 29A                |                    |          |
| 04820         | XA446  | 63        |     |       |     |       |             |      |       |       |        | RTEN2S | 03       | RTEN2S | 00     | 1                | TQ2   | E4                  | 33B                | RTC 2 ENABLE-SET   |          |
| 04806         | XA446  | 64        |     | XA445 | 64  |       |             | 16B  | 9     |       |        | RTEN0R | 01       | RTEN0S | 01     | 2                | TQ2   | E2                  | 30A                |                    |          |
| 04828         | XA446  | 65        |     | XA445 | 41  |       |             | 16B  | 9     |       |        | RTRQIQ | 01       | RD14AA | 01     | 1                | TQ2   | F3                  | 34B                |                    |          |
| 15717         | XA446  | 66        |     |       |     |       |             |      |       |       |        | TSOBRO | 09       | TSOBRO | 00     | 1                | TQ2   | E1                  | 31A                | SO.BRST*-0         |          |
| 02903         | XA446  | 67        |     |       |     |       |             |      |       |       |        | GND    | 01       |        |        |                  |       |                     | 40A                |                    |          |
| 06112         | XA446  | 68        |     | XA121 | 45  |       |             | 16B  | 9     |       |        | SPI040 | 31       | TSOBRO | 01     | 1                | TQ2   | E1                  | 32A                |                    |          |
| 04623         | XA446  | 69        |     |       |     |       |             |      |       |       |        | RD14AA | 02       | RD14AA | 00     | 1                | TQ2   | F3                  | 35A                | RTC 1 ADDRESS TO   |          |
| 15707         | XA446  | 70        |     | XA116 | 69  |       |             | 16B  | 9     |       |        | TSOBRA | 01       | TSOBRO | 01     | 2                | TQ2   | E1                  | 33A                |                    |          |
| 04676         | XA446  | 71        |     | XA406 | 60  |       |             | 16B  | 9     |       |        | RINS00 | 03       | RD13AA | 01     | 1                | TQ2   | F2                  | 36A                |                    |          |
| 04620         | XA446  | 72        |     | XA424 | 22  |       |             | 16B  | 9     |       |        | RD13AA | 01       | RD13AA | 00     | 1                | TQ2   | F2                  | 34A                | RTC 0 ADDRESS TO   |          |
| 04623         | XA446  | 73        |     | XA445 | 54  |       |             | 16B  | 9     |       |        | RTRQOQ | 01       | RD13AA | 01     | 2                | TQ2   | F2                  | 36B                |                    |          |
| 04675         | XA446  | 74        |     | XA446 | 71  |       |             | 16B  | 9     |       |        | RINS00 | 02       | RD14AA | 01     | 2                | TQ2   | F3                  | 35B                |                    |          |
| 04619         | XA446  | 75        |     |       |     |       |             |      |       |       |        | RD12AA | 02       | RD12AA | 00     | 1                | TQ2   | F1                  | 37B                | SWITCH ADDRESS T   |          |
| 04743         | XA446  | 76        |     |       |     |       |             |      |       |       |        | RTCNIQ | 06       | RTCIOR | 01     | 1                | TQ2   | F4                  | 37A                |                    |          |
| 04683         | XA446  | 77        |     | XA442 | 78  |       |             | 16B  | 9     |       |        | RSWRQQ | 01       | RD12AA | 01     | 1                | TQ2   | F1                  | 38B                |                    |          |
| 04716         | XA446  | 78        |     |       |     |       |             |      |       |       |        | RTCIOS | 02       | RTCIOR | 01     | 2                | TQ2   | F4                  | 38A                |                    |          |
| 04674         | XA446  | 79        |     | XA446 | 74  |       |             | 16B  | 9     |       |        | RINS00 | 01       | RD12AA | 01     | 2                | TQ2   | F1                  | 39B                |                    |          |
| 04712         | XA446  | 80        |     | XA445 | 65  |       |             | 16B  | 9     |       |        | RTCIOR | 01       | RTCIOR | 00     | 1                | TQ2   | F4                  | 39A                | RTC 0 INHIBIT-RE   |          |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA447  
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| RECORD NUMBER                                   | FROM   |           |     | TO | WIRE |      |             |      |       |       |  | SFC INST. MISC | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|------|------|-------------|------|-------|-------|--|----------------|--------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |    | PIN  | TYPE | MULTI GROUP | CODE | COLOR | IDENT |  |                |        |        |          |             |                  |       |                     |                    |                    |        |
| 06860   |        | XA447     | 01  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 02904   |        | XA447     | 02  |    |      |      |             |      |       |       |  | GND            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06861   |        | XA447     | 03  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06862   |        | XA447     | 04  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06863   |        | XA447     | 05  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06864   |        | XA447     | 06  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06865   |        | XA447     | 07  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06866   |        | XA447     | 08  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06867   |        | XA447     | 09  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06868   |        | XA447     | 10  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06869   |        | XA447     | 11  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 00648   |        | XA447     | 12  |    |      |      |             |      |       |       |  | +5V            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06870   |        | XA447     | 13  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06871   |        | XA447     | 14  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06872   |        | XA447     | 15  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 02905   |        | XA447     | 16  |    |      |      |             |      |       |       |  | GND            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06873   |        | XA447     | 17  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06874   |        | XA447     | 18  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06875   |        | XA447     | 19  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06876   |        | XA447     | 20  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06877   |        | XA447     | 21  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06878   |        | XA447     | 22  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06879   |        | XA447     | 23  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06880   |        | XA447     | 24  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06881   |        | XA447     | 25  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06882   |        | XA447     | 26  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06883   |        | XA447     | 27  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 00649   |        | XA447     | 28  |    |      |      |             |      |       |       |  | +5V            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06884   |        | XA447     | 29  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06885   |        | XA447     | 30  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06886   |        | XA447     | 31  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 02906   |        | XA447     | 32  |    |      |      |             |      |       |       |  | GND            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06887   |        | XA447     | 33  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06888   |        | XA447     | 34  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06889   |        | XA447     | 35  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06890   |        | XA447     | 36  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06891   |        | XA447     | 37  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06892   |        | XA447     | 38  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06893   |        | XA447     | 39  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06894   |        | XA447     | 40  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06895   |        | XA447     | 41  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06896   |        | XA447     | 42  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06897   |        | XA447     | 43  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 02907   |        | XA447     | 44  |    |      |      |             |      |       |       |  | GND            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06898   |        | XA447     | 45  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06899   |        | XA447     | 46  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06900   |        | XA447     | 47  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06901   |        | XA447     | 48  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06902   |        | XA447     | 49  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| 06903   |        | XA447     | 50  |    |      |      |             |      |       |       |  | SPP            | 01     |        |          |             |                  |       |                     |                    |                    |        |
| CONNECTOR XA447 CONTINUED ON THE NEXT PAGE **** |        |           |     |    |      |      |             |      |       |       |  |                |        |        |          |             |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA447  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 342

| RECORD NUMBER                                      | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|--|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|  | PREFIX | CONNECTOR | PIN | SH/L | PREFIX | CONNECTOR | PIN | SH/L | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 06904  | XA447  |           | 51  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06905  | XA447  |           | 52  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06906  | XA447  |           | 53  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06907  | XA447  |           | 54  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06908  | XA447  |           | 55  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06909  | XA447  |           | 56  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06910  | XA447  |           | 57  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 02908  | XA447  |           | 58  |      |        |           |     |      |             |      |       | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06911  | XA447  |           | 59  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06912  | XA447  |           | 60  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06913  | XA447  |           | 61  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06914  | XA447  |           | 62  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06915  | XA447  |           | 63  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06916  | XA447  |           | 64  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06917  | XA447  |           | 65  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06918  | XA447  |           | 66  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 02909  | XA447  |           | 67  |      |        |           |     |      |             |      |       | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06919  | XA447  |           | 68  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06920  | XA447  |           | 69  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06921  | XA447  |           | 70  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06922  | XA447  |           | 71  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06923  | XA447  |           | 72  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06924  | XA447  |           | 73  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06925  | XA447  |           | 74  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06926  | XA447  |           | 75  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06927  | XA447  |           | 76  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06928  | XA447  |           | 77  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06929  | XA447  |           | 78  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06930  | XA447  |           | 79  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06931  | XA447  |           | 80  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06932  | XA448  |           | 01  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 02910  | XA448  |           | 02  |      |        |           |     |      |             |      |       | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06933  | XA448  |           | 03  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06934  | XA448  |           | 04  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06935  | XA448  |           | 05  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06936  | XA448  |           | 06  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06937  | XA448  |           | 07  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06938  | XA448  |           | 08  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06939  | XA448  |           | 09  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06940  | XA448  |           | 10  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06941  | XA448  |           | 11  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 00650  | XA448  |           | 12  |      |        |           |     |      |             |      |       | +5V   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06942  | XA448  |           | 13  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06943  | XA448  |           | 14  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06944  | XA448  |           | 15  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 02911  | XA448  |           | 16  |      |        |           |     |      |             |      |       | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06945  | XA448  |           | 17  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 06946  | XA448  |           | 18  |      |        |           |     |      |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| CONNECTOR (XA448) CONTINUED ON THE NEXT PAGE ****. |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA448  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 343

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | OHM | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |               |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|-------------|------------------|-----|---------------------|--------------------|--------------------|--------|---------------|
|   | PREFIX | CONNECTOR | PIN | INTG | PREFIX | CONNECTOR | PIN | INTG | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |             |                  |     |                     |                    |                    |        | SPACES IN USE |
| 06947   |        | XA448     | 15  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06948   |        | XA448     | 20  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06949   |        | XA448     | 21  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06950   |        | XA448     | 22  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06951   |        | XA448     | 23  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06952   |        | XA448     | 24  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06953   |        | XA448     | 25  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06954   |        | XA448     | 26  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06955   |        | XA448     | 27  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06956   |        | XA448     | 28  |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06957   |        | XA448     | 29  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06958   |        | XA448     | 30  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 02912   |        | XA448     | 31  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06959   |        | XA448     | 32  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06960   |        | XA448     | 33  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06961   |        | XA448     | 34  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06962   |        | XA448     | 35  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06963   |        | XA448     | 36  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06964   |        | XA448     | 37  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06965   |        | XA448     | 38  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06966   |        | XA448     | 39  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06967   |        | XA448     | 40  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06968   |        | XA448     | 41  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06969   |        | XA448     | 42  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 02913   |        | XA448     | 43  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06970   |        | XA448     | 44  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06971   |        | XA448     | 45  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06972   |        | XA448     | 46  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06973   |        | XA448     | 47  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06974   |        | XA448     | 48  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06975   |        | XA448     | 49  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06976   |        | XA448     | 50  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06977   |        | XA448     | 51  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06978   |        | XA448     | 52  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06979   |        | XA448     | 53  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06980   |        | XA448     | 54  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06981   |        | XA448     | 55  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06982   |        | XA448     | 56  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 02914   |        | XA448     | 57  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06983   |        | XA448     | 58  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06984   |        | XA448     | 59  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06985   |        | XA448     | 60  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06986   |        | XA448     | 61  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06987   |        | XA448     | 62  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06988   |        | XA448     | 63  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06989   |        | XA448     | 64  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06990   |        | XA448     | 65  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 02915   |        | XA448     | 66  |      |        |           |     |      |             |      |       |       | GND    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| 06991   |        | XA448     | 67  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
|   |        | XA448     | 68  |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |             |                  |     |                     |                    |                    |        |               |
| CONNECTOR (XA448) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |        |        |          |             |                  |     |                     |                    |                    |        |               |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA448  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 344

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GRDP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |  |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|------|---------------------|--------------------|--------------------|--------|--|
|   | PREFIX | CONNECTOR | PIN | IN FC | PREFIX | CONNECTOR | PIN | IN FC | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |      |                     |                    |                    |        |  |
| 06992   |        | XA448     | 69  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 06993   |        | XA448     | 70  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 06994   |        | XA448     | 71  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 06995   |        | XA448     | 72  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 06996   |        | XA448     | 73  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 06997   |        | XA448     | 74  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 06998   |        | XA448     | 75  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 06999   |        | XA448     | 76  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07000   |        | XA448     | 77  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07001   |        | XA448     | 78  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07002   |        | XA448     | 79  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07003   |        | XA448     | 80  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07004   |        | XA449     | 01  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 02916   |        | XA449     | 02  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07005   |        | XA449     | 03  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07006   |        | XA449     | 04  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07007   |        | XA449     | 05  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07008   |        | XA449     | 06  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07009   |        | XA449     | 07  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07010   |        | XA449     | 08  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07011   |        | XA449     | 09  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07012   |        | XA449     | 10  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07013   |        | XA449     | 11  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 00652   |        | XA449     | 12  |       |        |           |     |       |             |      |       |       | +5V    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07014   |        | XA449     | 13  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07015   |        | XA449     | 14  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07016   |        | XA449     | 15  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 02917   |        | XA449     | 16  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07017   |        | XA449     | 17  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07018   |        | XA449     | 18  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07019   |        | XA449     | 19  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07020   |        | XA449     | 20  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07021   |        | XA449     | 21  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07022   |        | XA449     | 22  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07023   |        | XA449     | 23  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07024   |        | XA449     | 24  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07025   |        | XA449     | 25  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07026   |        | XA449     | 26  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07027   |        | XA449     | 27  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 00653   |        | XA449     | 28  |       |        |           |     |       |             |      |       |       | +5V    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07028   |        | XA449     | 29  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07029   |        | XA449     | 30  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07030   |        | XA449     | 31  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 02918   |        | XA449     | 32  |       |        |           |     |       |             |      |       |       | GND    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07031   |        | XA449     | 33  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07032   |        | XA449     | 34  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07033   |        | XA449     | 35  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| 07034   |        | XA449     | 36  |       |        |           |     |       |             |      |       |       | SPP    | 01     |          |      |        |                  |      |                     |                    |                    |        |  |
| CONNECTOR (XA449) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |        |        |          |      |        |                  |      |                     |                    |                    |        |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA449  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 345

| RECORD NUMBER                                     | FROM   |           |     | IN FC | TO     |           |     | IN FC | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |       | PREFIX | CONNECTOR | PIN |       | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07035   |        | XA449     | 37  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07036   |        | XA449     | 38  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07037   |        | XA449     | 39  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07038   |        | XA449     | 40  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07039   |        | XA449     | 41  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07040   |        | XA449     | 42  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07041   |        | XA449     | 43  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 02919   |        | XA449     | 44  |       |        |           |     |       |             |      |       | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07042   |        | XA449     | 45  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07043   |        | XA449     | 46  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07044   |        | XA449     | 47  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07045   |        | XA449     | 48  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07046   |        | XA449     | 49  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07047   |        | XA449     | 50  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07048   |        | XA449     | 51  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07049   |        | XA449     | 52  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07050   |        | XA449     | 53  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07051   |        | XA449     | 54  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07052   |        | XA449     | 55  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07053   |        | XA449     | 56  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07054   |        | XA449     | 57  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 02920   |        | XA449     | 58  |       |        |           |     |       |             |      |       | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07055   |        | XA449     | 59  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07056   |        | XA449     | 60  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07057   |        | XA449     | 61  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07058   |        | XA449     | 62  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07059   |        | XA449     | 63  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07060   |        | XA449     | 64  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07061   |        | XA449     | 65  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07062   |        | XA449     | 66  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 02921   |        | XA449     | 67  |       |        |           |     |       |             |      |       | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07063   |        | XA449     | 68  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07064   |        | XA449     | 69  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07065   |        | XA449     | 70  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07066   |        | XA449     | 71  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07067   |        | XA449     | 72  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07068   |        | XA449     | 73  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07069   |        | XA449     | 74  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07070   |        | XA449     | 75  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07071   |        | XA449     | 76  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07072   |        | XA449     | 77  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07073   |        | XA449     | 78  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07074   |        | XA449     | 79  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07075   |        | XA449     | 80  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07076   |        | XA450     | 01  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 02922   |        | XA450     | 02  |       |        |           |     |       |             |      |       | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07077   |        | XA450     | 03  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07078   |        | XA450     | 04  |       |        |           |     |       |             |      |       | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| CONNECTOR (XA450) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA450  
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| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PL LINE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |  |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|-----------------------|--------------------|--------------------|--------|--|
|               | PREFIX | CONNECTOR | PIN                             | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                       |                    |                    |        |  |
| 07079         |        | XA450     | 05                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07080         |        | XA450     | 06                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07081         |        | XA450     | 07                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07082         |        | XA450     | 08                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07083         |        | XA450     | 09                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07084         |        | XA450     | 10                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07085         |        | XA450     | 11                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 00654         |        | XA450     | 12                              |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07086         |        | XA450     | 13                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07087         |        | XA450     | 14                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07088         |        | XA450     | 15                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 02923         |        | XA450     | 16                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07089         |        | XA450     | 17                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07090         |        | XA450     | 18                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07091         |        | XA450     | 19                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07092         |        | XA450     | 20                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07093         |        | XA450     | 21                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07094         |        | XA450     | 22                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07095         |        | XA450     | 23                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07096         |        | XA450     | 24                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07097         |        | XA450     | 25                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07098         |        | XA450     | 26                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07099         |        | XA450     | 27                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 00655         |        | XA450     | 28                              |      |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07100         |        | XA450     | 29                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07101         |        | XA450     | 30                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07102         |        | XA450     | 31                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 02924         |        | XA450     | 32                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07103         |        | XA450     | 33                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07104         |        | XA450     | 34                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07105         |        | XA450     | 35                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07106         |        | XA450     | 36                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07107         |        | XA450     | 37                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07108         |        | XA450     | 38                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07109         |        | XA450     | 39                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07110         |        | XA450     | 40                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07111         |        | XA450     | 41                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07112         |        | XA450     | 42                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07113         |        | XA450     | 43                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 02925         |        | XA450     | 44                              |      |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07114         |        | XA450     | 45                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07115         |        | XA450     | 46                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07116         |        | XA450     | 47                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07117         |        | XA450     | 48                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07118         |        | XA450     | 49                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07119         |        | XA450     | 50                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07120         |        | XA450     | 51                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07121         |        | XA450     | 52                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07122         |        | XA450     | 53                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| 07123         |        | XA450     | 54                              |      |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                       |                    |                    |        |  |
| CONNECTOR     |        | XA450     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                       |                    |                    |        |  |

DRAWING NUMBER 149019-880

CONNECTOR

UNIT ASSEMBLY NO. 149019

REV G

INDEX XA450

UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT

FILE IDENT

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| RECORD NUMBER | FROM   |           |                                 | SH FT | TO     |           |     | WIRE  |             |      |        | SPP INST MISC | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CMT OR CHIP TYPE | GND | LOAD OF POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|--------|---------------|--------|--------|----------|-------------|------------------|-----|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             |       | PREFIX | CONNECTOR | PIN | SH FT | MULTI GROUP | CODE | COI OR |               |        |        |          |             |                  |     |                     |                    |                    |        |
| 07124         |        | XA450     | 55                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07125         |        | XA450     | 56                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07126         |        | XA450     | 57                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 02926         |        | XA450     | 58                              |       |        |           |     |       |             |      |        | GND           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07127         |        | XA450     | 59                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07128         |        | XA450     | 60                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07129         |        | XA450     | 61                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07130         |        | XA450     | 62                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07131         |        | XA450     | 63                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07132         |        | XA450     | 64                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07133         |        | XA450     | 65                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07134         |        | XA450     | 66                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 02927         |        | XA450     | 67                              |       |        |           |     |       |             |      |        | GND           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07135         |        | XA450     | 68                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07136         |        | XA450     | 69                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07137         |        | XA450     | 70                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07138         |        | XA450     | 71                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07139         |        | XA450     | 72                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07140         |        | XA450     | 73                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07141         |        | XA450     | 74                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07142         |        | XA450     | 75                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07143         |        | XA450     | 76                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07144         |        | XA450     | 77                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07145         |        | XA450     | 78                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07146         |        | XA450     | 79                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07147         |        | XA450     | 80                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07148         |        | XA451     | 01                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 02928         |        | XA451     | 02                              |       |        |           |     |       |             |      |        | GND           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07149         |        | XA451     | 03                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07150         |        | XA451     | 04                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07151         |        | XA451     | 05                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07152         |        | XA451     | 06                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07153         |        | XA451     | 07                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07154         |        | XA451     | 08                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07155         |        | XA451     | 09                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07156         |        | XA451     | 10                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07157         |        | XA451     | 11                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 00656         |        | XA451     | 12                              |       |        |           |     |       |             |      |        | +5V           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07158         |        | XA451     | 13                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07159         |        | XA451     | 14                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07160         |        | XA451     | 15                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 02929         |        | XA451     | 16                              |       |        |           |     |       |             |      |        | GND           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07161         |        | XA451     | 17                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07162         |        | XA451     | 18                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07163         |        | XA451     | 19                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07164         |        | XA451     | 20                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07165         |        | XA451     | 21                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| 07166         |        | XA451     | 22                              |       |        |           |     |       |             |      |        | SPP           | 01     |        |          |             |                  |     |                     |                    |                    |        |
| CONNECTOR     |        | XA451     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |        |               |        |        |          |             |                  |     |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA451  
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| RECORD NUMBER | FROM      |           |                                 | TO     |           |     | WIRE        |      |       |       | SPL INST. MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|-----------|-----------|---------------------------------|--------|-----------|-----|-------------|------|-------|-------|----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX    | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |                |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07167         |           | XA451     | 23                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07168         |           | XA451     | 24                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07169         |           | XA451     | 25                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07170         |           | XA451     | 26                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07171         |           | XA451     | 27                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 00657         |           | XA451     | 28                              |        |           |     |             |      |       |       |                | +5V    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07172         |           | XA451     | 29                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07173         |           | XA451     | 30                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07174         |           | XA451     | 31                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 02930         |           | XA451     | 32                              |        |           |     |             |      |       |       |                | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07175         |           | XA451     | 33                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07176         |           | XA451     | 34                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07177         |           | XA451     | 35                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07178         |           | XA451     | 36                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07179         |           | XA451     | 37                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07180         |           | XA451     | 38                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07181         |           | XA451     | 39                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07182         |           | XA451     | 40                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07183         |           | XA451     | 41                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07184         |           | XA451     | 42                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07185         |           | XA451     | 43                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 02931         |           | XA451     | 44                              |        |           |     |             |      |       |       |                | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07186         |           | XA451     | 45                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07187         |           | XA451     | 46                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07188         |           | XA451     | 47                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07189         |           | XA451     | 48                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07190         |           | XA451     | 49                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07191         |           | XA451     | 50                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07192         |           | XA451     | 51                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07193         |           | XA451     | 52                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07194         |           | XA451     | 53                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07195         |           | XA451     | 54                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07196         |           | XA451     | 55                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07197         |           | XA451     | 56                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07198         |           | XA451     | 57                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 02932         |           | XA451     | 58                              |        |           |     |             |      |       |       |                | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07199         |           | XA451     | 59                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07200         |           | XA451     | 60                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07201         |           | XA451     | 61                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07202         |           | XA451     | 62                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07203         |           | XA451     | 63                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07204         |           | XA451     | 64                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07205         |           | XA451     | 65                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07206         |           | XA451     | 66                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 02933         |           | XA451     | 67                              |        |           |     |             |      |       |       |                | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07207         |           | XA451     | 68                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07208         |           | XA451     | 69                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07209         |           | XA451     | 70                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07210         |           | XA451     | 71                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07211         |           | XA451     | 72                              |        |           |     |             |      |       |       |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
|               | CONNECTOR | XA451     | CONTINUED ON THE NEXT PAGE **** |        |           |     |             |      |       |       |                |        |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA451  
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| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACT | CXT OP CHIP TYPE | GROUP | LOAD GP POWER PLANE | TEST POINTS ANCHOR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|----------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH FT | PREFIX | CONNECTOR | PIN | SH FT | MULTI GROUP | CODE | COLOP | IDENT |          |        |          |      |      |                  |       |                     |                    |                    |        |
| 07212   |        | XA451     | 73  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07213   |        | XA451     | 74  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07214   |        | XA451     | 75  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07215   |        | XA451     | 76  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07216   |        | XA451     | 77  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07217   |        | XA451     | 78  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07218   |        | XA451     | 79  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07219   |        | XA451     | 80  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07220   |        | XA501     | 01  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 02934   |        | XA501     | 02  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 18972   |        | XA501     | 03  |       |        |           |     |       |             |      |       |       | XD0PDB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 18976   |        | XA501     | 04  |       |        | XA539     | 45  |       |             | 16B  | 9     |       | XD0PDB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 21278   |        | XA501     | 04  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 18985   |        | XA501     | 05  |       |        |           |     |       |             |      |       |       | XD0JDB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 18989   |        | XA501     | 06  |       |        | XA539     | 05  |       |             | 16B  | 9     |       | XD0JDB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 21279   |        | XA501     | 06  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 18998   |        | XA501     | 07  |       |        |           |     |       |             |      |       |       | XD01DB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 19002   |        | XA501     | 08  |       |        | XA539     | 19  |       |             | 16B  | 9     |       | XD01DB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 21280   |        | XA501     | 08  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 19011   |        | XA501     | 09  |       |        |           |     |       |             |      |       |       | XD02DB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 19015   |        | XA501     | 10  |       |        | XA539     | 16  |       |             | 16B  | 9     |       | XD02DB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07221   |        | XA501     | 11  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 02935   |        | XA501     | 12  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 19024   |        | XA501     | 13  |       |        |           |     |       |             |      |       |       | XD03DB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 19028   |        | XA501     | 14  |       |        | XA539     | 02  |       |             | 16B  | 9     |       | XD03DB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 21281   |        | XA501     | 14  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07222   |        | XA501     | 15  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 02936   |        | XA501     | 16  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 20985   |        | XA501     | 16  |       |        | XA502     | 22  |       |             | 16B  | 9     |       | GND022   | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 19037   |        | XA501     | 17  |       |        |           |     |       |             |      |       |       | XD04DB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 19041   |        | XA501     | 18  |       |        | XA539     | 25  |       |             | 16B  | 9     |       | XD04DB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 21282   |        | XA501     | 18  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 19050   |        | XA501     | 19  |       |        |           |     |       |             |      |       |       | XD05DB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 19054   |        | XA501     | 20  |       |        | XA539     | 39  |       |             | 16B  | 9     |       | XD05DB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 21283   |        | XA501     | 20  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 19063   |        | XA501     | 21  |       |        |           |     |       |             |      |       |       | XD06DB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 19067   |        | XA501     | 22  |       |        | XA539     | 42  |       |             | 16B  | 9     |       | XD06DB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 21284   |        | XA501     | 22  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 19074   |        | XA501     | 23  |       |        |           |     |       |             |      |       |       | XD07DB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 19080   |        | XA501     | 24  |       |        | XA539     | 21  |       |             | 16B  | 9     |       | XD07DB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 21285   |        | XA501     | 24  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 18794   |        | XA501     | 25  |       |        |           |     |       |             |      |       |       | XDR0DB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 18799   |        | XA501     | 26  |       |        | XA539     | 53  |       |             | 16B  | 9     |       | XDR0DB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 21286   |        | XA501     | 26  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 07223   |        | XA501     | 27  |       |        |           |     |       |             |      |       |       | SPP      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 02937   |        | XA501     | 28  |       |        |           |     |       |             |      |       |       | GND      | 01     |          |      |      |                  |       |                     |                    |                    |        |
| 18817   |        | XA501     | 29  |       |        |           |     |       |             |      |       |       | XDR1DB4  | 03     |          |      |      |                  |       |                     |                    |                    | A01    |
| 18821   |        | XA501     | 30  |       |        | XA539     | 58  |       |             | 16B  | 9     |       | XDR1DB4R | 01     |          |      |      |                  |       |                     |                    |                    |        |
| CONNECTOR (XA501) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |          |        |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA501  
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| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SFC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |  |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|--|
|   | PREFIX | CONNECTOR | PIN | INFO | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21287   | XA501  | 30        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07224   | XA501  | 31        |     |      |        |           |     |      |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02938   | XA501  | 32        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 18839   | XA501  | 33        |     |      |        |           |     |      |             |      |       |       | XDR2DB4       | 03     |        |          |      |        |                  |       |                     |                    |                    | A01    |  |
| 18843   | XA501  | 34        |     |      | XA539  | 44        |     |      |             | 16B  | 9     |       | XDR2DB4R      | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21288   | XA501  | 34        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 18861   | XA501  | 35        |     |      |        |           |     |      |             |      |       |       | XDR3DB4       | 03     |        |          |      |        |                  |       |                     |                    |                    | A01    |  |
| 18865   | XA501  | 36        |     |      | XA539  | 67        |     |      |             | 16B  | 9     |       | XDR3DB4R      | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21289   | XA501  | 36        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 18883   | XA501  | 37        |     |      |        |           |     |      |             |      |       |       | XDR4DB4       | 03     |        |          |      |        |                  |       |                     |                    |                    | A01    |  |
| 18887   | XA501  | 38        |     |      | XA539  | 77        |     |      |             | 16B  | 9     |       | XDR4DB4R      | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21290   | XA501  | 38        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 18905   | XA501  | 39        |     |      |        |           |     |      |             |      |       |       | XDR5DB4       | 03     |        |          |      |        |                  |       |                     |                    |                    | A01    |  |
| 18909   | XA501  | 40        |     |      | XA539  | 79        |     |      |             | 16B  | 9     |       | XDR5DB4R      | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21291   | XA501  | 40        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 18927   | XA501  | 41        |     |      |        |           |     |      |             |      |       |       | XDR6DB4       | 03     |        |          |      |        |                  |       |                     |                    |                    | A01    |  |
| 18931   | XA501  | 42        |     |      | XA539  | 59        |     |      |             | 16B  | 9     |       | XDR6DB4R      | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21292   | XA501  | 42        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07225   | XA501  | 43        |     |      |        |           |     |      |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02939   | XA501  | 44        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 20996   | XA501  | 44        |     |      | XA502  | 42        |     |      |             | 16B  | 9     |       | GND023        | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 18947   | XA501  | 45        |     |      |        |           |     |      |             |      |       |       | XDR7DB4       | 03     |        |          |      |        |                  |       |                     |                    |                    | A01    |  |
| 18951   | XA501  | 46        |     |      | XA541  | 67        |     |      |             | 16B  | 9     |       | XDR7DB4R      | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21293   | XA501  | 46        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 18713   | XA501  | 47        |     |      |        |           |     |      |             |      |       |       | XDENDB4       | 03     |        |          |      |        |                  |       |                     |                    |                    | A01    |  |
| 18717   | XA501  | 48        |     |      | XA541  | 59        |     |      |             | 16B  | 9     |       | XDENDB4R      | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21294   | XA501  | 48        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 18671   | XA501  | 49        |     |      |        |           |     |      |             |      |       |       | XDCMDB4       | 03     |        |          |      |        |                  |       |                     |                    |                    | A01    |  |
| 18676   | XA501  | 50        | 3   |      | XA541  | 79        | 3   |      |             | 16B  | 9     |       | XDCMDB4R      | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21295   | XA501  | 50        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 18743   | XA501  | 51        |     |      |        |           |     |      |             |      |       |       | XDINDB4       | 03     |        |          |      |        |                  |       |                     |                    |                    | A01    |  |
| 18747   | XA501  | 52        |     |      | XA541  | 77        |     |      |             | 16B  | 9     |       | XDINDB4R      | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21296   | XA501  | 52        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07226   | XA501  | 53        |     |      |        |           |     |      |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02940   | XA501  | 54        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07227   | XA501  | 55        |     |      |        |           |     |      |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02941   | XA501  | 56        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07228   | XA501  | 57        |     |      |        |           |     |      |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02942   | XA501  | 58        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07229   | XA501  | 59        |     |      |        |           |     |      |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02943   | XA501  | 60        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07230   | XA501  | 61        |     |      |        |           |     |      |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02944   | XA501  | 62        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07231   | XA501  | 63        |     |      |        |           |     |      |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02945   | XA501  | 64        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07232   | XA501  | 65        |     |      |        |           |     |      |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02946   | XA501  | 66        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 21007   | XA501  | 66        |     |      | XA502  | 62        |     |      |             | 16B  | 9     |       | GND024        | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 07233   | XA501  | 67        |     |      |        |           |     |      |             |      |       |       | SPP           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| 02947   | XA501  | 68        |     |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      |        |                  |       |                     |                    |                    |        |  |
| CONNECTOR (XA501) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |               |        |        |          |      |        |                  |       |                     |                    |                    |        |  |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA501  
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| RECORD NUMBER | FROM   |           |                                 |       | TO     |           |     |       | WIRE        |      |        |       | SPP INST | SIGNAL | SFD NO | EQUATION | TERM | FACTOR | CMT OR CHIP TYPE | QWANT | LOAD OR POWER PLANE | TEST POINTS | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|--------|-------|----------|--------|--------|----------|------|--------|------------------|-------|---------------------|-------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SH/PC | PREFIX | CONNECTOR | PIN | SH/PC | MULTI GROUP | CODE | COL IN | IDENT |          |        |        |          |      |        |                  |       |                     |             |                    |        |
| 07234         |        | XA501     | 69                              |       |        |           |     |       |             |      |        |       | SPP      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 02948         |        | XA501     | 70                              |       |        |           |     |       |             |      |        |       | GND      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 07235         |        | XA501     | 71                              |       |        |           |     |       |             |      |        |       | SPP      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 02949         |        | XA501     | 72                              |       |        |           |     |       |             |      |        |       | GND      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 07236         |        | XA501     | 73                              |       |        |           |     |       |             |      |        |       | SPP      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 03491         |        | XA501     | 74                              | 3     |        | XA504     | 58  | 3     |             | 16B  | 9      |       | G50144   | 02     |        |          |      |        |                  |       |                     |             |                    |        |
| 07237         |        | XA501     | 75                              |       |        |           |     |       |             |      |        |       | SPP      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 03490         |        | XA501     | 76                              |       |        | XA501     | 74  |       |             | 16B  | 9      |       | G50144   | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 07238         |        | XA501     | 77                              |       |        |           |     |       |             |      |        |       | SPP      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 02950         |        | XA501     | 78                              |       |        |           |     |       |             |      |        |       | GND      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 07239         |        | XA501     | 79                              |       |        |           |     |       |             |      |        |       | SPP      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 02951         |        | XA501     | 80                              |       |        |           |     |       |             |      |        |       | GND      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 07240         |        | XA502     | 01                              |       |        |           |     |       |             |      |        |       | SPP      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20975         |        | XA502     | 02                              |       |        | XA502     | 04  |       |             | 16B  | 9      |       | GND021   | 02     |        |          |      |        |                  |       |                     |             |                    |        |
| 19386         |        | XA502     | 03                              |       |        |           |     |       |             |      |        |       | XE0PDB4  | 03     |        |          |      |        |                  |       |                     |             |                    | A01    |
| 19391         |        | XA502     | 04                              | 3     |        |           |     |       |             |      |        |       | XE0PDB4R | 02     |        |          |      |        |                  |       |                     |             |                    |        |
| 20976         |        | XA502     | 04                              |       |        | XA502     | 06  |       |             | 16B  | 9      |       | GND021   | 03     |        |          |      |        |                  |       |                     |             |                    |        |
| 19399         |        | XA502     | 05                              |       |        |           |     |       |             |      |        |       | XE00DB4  | 03     |        |          |      |        |                  |       |                     |             |                    | A01    |
| 19403         |        | XA502     | 06                              | 3     |        | XA546     | 05  | 3     |             | 16B  | 9      |       | XE00DB4R | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20977         |        | XA502     | 06                              |       |        | XA502     | 08  |       |             | 16B  | 9      |       | GND021   | 04     |        |          |      |        |                  |       |                     |             |                    |        |
| 19412         |        | XA502     | 07                              |       |        |           |     |       |             |      |        |       | XE01DB4  | 03     |        |          |      |        |                  |       |                     |             |                    | A01    |
| 19416         |        | XA502     | 08                              | 3     |        | XA546     | 19  | 3     |             | 16B  | 9      |       | XE01DB4R | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20978         |        | XA502     | 08                              |       |        | XA502     | 10  |       |             | 16B  | 9      |       | GND021   | 05     |        |          |      |        |                  |       |                     |             |                    |        |
| 19425         |        | XA502     | 09                              |       |        |           |     |       |             |      |        |       | XE02DB4  | 03     |        |          |      |        |                  |       |                     |             |                    | A01    |
| 19429         |        | XA502     | 10                              | 3     |        | XA546     | 16  | 3     |             | 16B  | 9      |       | XE02DB4R | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20979         |        | XA502     | 10                              |       |        | XA502     | 12  |       |             | 16B  | 9      |       | GND021   | 06     |        |          |      |        |                  |       |                     |             |                    |        |
| 07242         |        | XA502     | 11                              |       |        |           |     |       |             |      |        |       | SPP      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20980         |        | XA502     | 12                              |       |        | XA502     | 14  |       |             | 16B  | 9      |       | GND021   | 07     |        |          |      |        |                  |       |                     |             |                    |        |
| 19438         |        | XA502     | 13                              |       |        |           |     |       |             |      |        |       | XE03DB4  | 03     |        |          |      |        |                  |       |                     |             |                    | A01    |
| 19442         |        | XA502     | 14                              | 3     |        | XA546     | 02  | 3     |             | 16B  | 9      |       | XE03DB4R | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20981         |        | XA502     | 14                              |       |        | XA502     | 16  |       |             | 16B  | 9      |       | GND021   | 08     |        |          |      |        |                  |       |                     |             |                    |        |
| 07244         |        | XA502     | 15                              |       |        |           |     |       |             |      |        |       | SPP      | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20982         |        | XA502     | 16                              |       |        | XA502     | 18  |       |             | 16B  | 9      |       | GND021   | 09     |        |          |      |        |                  |       |                     |             |                    |        |
| 19451         |        | XA502     | 17                              |       |        |           |     |       |             |      |        |       | XE04DB4  | 03     |        |          |      |        |                  |       |                     |             |                    | A01    |
| 19455         |        | XA502     | 18                              | 3     |        | XA546     | 25  | 3     |             | 16B  | 9      |       | XE04DB4R | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20983         |        | XA502     | 18                              |       |        | XA502     | 20  |       |             | 16B  | 9      |       | GND021   | 10     |        |          |      |        |                  |       |                     |             |                    |        |
| 19464         |        | XA502     | 19                              |       |        |           |     |       |             |      |        |       | XE05DB4  | 03     |        |          |      |        |                  |       |                     |             |                    | A01    |
| 19468         |        | XA502     | 20                              | 3     |        | XA546     | 39  | 3     |             | 16B  | 9      |       | XE05DB4R | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20984         |        | XA502     | 20                              |       |        |           |     |       |             |      |        |       | GND021   | 11     |        |          |      |        |                  |       |                     |             |                    |        |
| 19477         |        | XA502     | 21                              |       |        |           |     |       |             |      |        |       | XE06DB4  | 03     |        |          |      |        |                  |       |                     |             |                    | A01    |
| 19481         |        | XA502     | 22                              | 3     |        | XA546     | 42  | 3     |             | 16B  | 9      |       | XE06DB4R | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20986         |        | XA502     | 22                              |       |        | XA502     | 24  |       |             | 16B  | 9      |       | GND022   | 02     |        |          |      |        |                  |       |                     |             |                    |        |
| 19490         |        | XA502     | 23                              |       |        |           |     |       |             |      |        |       | XE07DB4  | 03     |        |          |      |        |                  |       |                     |             |                    | A01    |
| 19494         |        | XA502     | 24                              | 3     |        | XA546     | 21  | 3     |             | 16B  | 9      |       | XE07DB4R | 01     |        |          |      |        |                  |       |                     |             |                    |        |
| 20987         |        | XA502     | 24                              |       |        | XA502     | 26  |       |             | 16B  | 9      |       | GND022   | 03     |        |          |      |        |                  |       |                     |             |                    |        |
| 19209         |        | XA502     | 25                              |       |        |           |     |       |             |      |        |       | XE08DB4  | 03     |        |          |      |        |                  |       |                     |             |                    | A01    |
| 19214         |        | XA502     | 26                              |       |        |           |     |       |             |      |        |       | XE08DB4R | 02     |        |          |      |        |                  |       |                     |             |                    |        |
| 20988         |        | XA502     | 26                              |       |        | XA502     | 28  |       |             | 16B  | 9      |       | GND022   | 04     |        |          |      |        |                  |       |                     |             |                    |        |
| CONNECTOR     |        | XA502     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |        |       |          |        |        |          |      |        |                  |       |                     |             |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA502  
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|---|--------|-----------|-----|--------|-----------|-----|-----------|------|-------|-------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|-----------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | PCB GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |       |                     |                    |                    |           |
| 07246   | XA502  |           | 27  |        |           |     |           |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 20989   | XA502  |           | 28  |        | XA502     | 30  |           | 16B  | 9     |       | GND022   | 05     |          |      |        |                  |       |                     |                    |                    |           |
| 19231   | XA502  |           | 29  |        |           |     |           |      |       |       | XER1DB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01       |
| 19236   | XA502  |           | 30  |        |           |     |           |      |       |       | XER1DB4R | 02     |          |      |        |                  |       |                     |                    |                    |           |
| 20990   | XA502  |           | 30  |        | XA502     | 32  |           | 16B  | 9     |       | GND022   | 06     |          |      |        |                  |       |                     |                    |                    |           |
| 07248   | XA502  |           | 31  |        |           |     |           |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 20991   | XA502  |           | 32  |        | XA502     | 34  |           | 16B  | 9     |       | GND022   | 07     |          |      |        |                  |       |                     |                    |                    |           |
| 19253   | XA502  |           | 33  |        |           |     |           |      |       |       | XER2DB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01       |
| 19258   | XA502  |           | 34  |        |           |     |           |      |       |       | XER2DB4R | 02     |          |      |        |                  |       |                     |                    |                    |           |
| 20992   | XA502  |           | 34  |        | XA502     | 36  |           | 16B  | 9     |       | GND022   | 08     |          |      |        |                  |       |                     |                    |                    |           |
| 19275   | XA502  |           | 35  |        |           |     |           |      |       |       | XER3DB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01       |
| 19280   | XA502  |           | 36  |        |           |     |           |      |       |       | XER3DB4R | 02     |          |      |        |                  |       |                     |                    |                    |           |
| 20993   | XA502  |           | 36  |        | XA502     | 38  |           | 16B  | 9     |       | GND022   | 09     |          |      |        |                  |       |                     |                    |                    |           |
| 19297   | XA502  |           | 37  |        |           |     |           |      |       |       | XER4DB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01       |
| 19302   | XA502  |           | 38  |        |           |     |           |      |       |       | XER4DB4R | 02     |          |      |        |                  |       |                     |                    |                    |           |
| 20994   | XA502  |           | 38  |        | XA502     | 40  |           | 16B  | 9     |       | GND022   | 10     |          |      |        |                  |       |                     |                    |                    |           |
| 19319   | XA502  |           | 39  |        |           |     |           |      |       |       | XER5DB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01       |
| 19324   | XA502  |           | 40  |        |           |     |           |      |       |       | XER5DB4R | 02     |          |      |        |                  |       |                     |                    |                    |           |
| 20995   | XA502  |           | 40  |        |           |     |           |      |       |       | GND022   | 11     |          |      |        |                  |       |                     |                    |                    |           |
| 19341   | XA502  |           | 41  |        |           |     |           |      |       |       | XER6DB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01       |
| 19346   | XA502  |           | 42  |        |           |     |           |      |       |       | XER6DB4R | 02     |          |      |        |                  |       |                     |                    |                    |           |
| 20997   | XA502  |           | 42  |        | XA502     | 44  |           | 16B  | 9     |       | GND023   | 02     |          |      |        |                  |       |                     |                    |                    |           |
| 07250   | XA502  |           | 43  |        |           |     |           |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 20998   | XA502  |           | 44  |        | XA502     | 46  |           | 16B  | 9     |       | GND023   | 03     |          |      |        |                  |       |                     |                    |                    |           |
| 19361   | XA502  |           | 45  |        |           |     |           |      |       |       | XER7DB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01       |
| 19365   | XA502  |           | 46  | 3      | XA548     | 67  | 3         | 16B  | 9     |       | XER7DB4R | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 20999   | XA502  |           | 46  |        | XA502     | 48  |           | 16B  | 9     |       | GND023   | 04     |          |      |        |                  |       |                     |                    |                    |           |
| 19127   | XA502  |           | 47  |        |           |     |           |      |       |       | XEENDB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01       |
| 19131   | XA502  |           | 48  | 3      | XA548     | 59  | 3         | 16B  | 9     |       | XEENDB4R | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 21000   | XA502  |           | 48  |        | XA502     | 50  |           | 16B  | 9     |       | GND023   | 05     |          |      |        |                  |       |                     |                    |                    |           |
| 19086   | XA502  |           | 49  |        |           |     |           |      |       |       | XECMDB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01       |
| 19090   | XA502  |           | 50  | 3      | XA548     | 79  | 3         | 16B  | 9     |       | XECMDB4R | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 21001   | XA502  |           | 50  |        | XA502     | 52  |           | 16B  | 9     |       | GND023   | 06     |          |      |        |                  |       |                     |                    |                    |           |
| 19157   | XA502  |           | 51  |        |           |     |           |      |       |       | XEINDB4  | 03     |          |      |        |                  |       |                     |                    |                    | A01       |
| 19161   | XA502  |           | 52  | 3      | XA548     | 77  | 3         | 16B  | 9     |       | XEINDB4R | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 21002   | XA502  |           | 52  |        | XA502     | 54  |           | 16B  | 9     |       | GND023   | 07     |          |      |        |                  |       |                     |                    |                    |           |
| 07252   | XA502  |           | 53  |        |           |     |           |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 21003   | XA502  |           | 54  |        | XA502     | 56  |           | 16B  | 9     |       | GND023   | 08     |          |      |        |                  |       |                     |                    |                    |           |
| 07254   | XA502  |           | 55  |        |           |     |           |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 21004   | XA502  |           | 56  |        | XA502     | 58  |           | 16B  | 9     |       | GND023   | 09     |          |      |        |                  |       |                     |                    |                    |           |
| 07256   | XA502  |           | 57  |        |           |     |           |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 21005   | XA502  |           | 58  |        | XA502     | 60  |           | 16B  | 9     |       | GND023   | 10     |          |      |        |                  |       |                     |                    |                    |           |
| 07258   | XA502  |           | 59  |        |           |     |           |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 21006   | XA502  |           | 60  |        |           |     |           |      |       |       | GND023   | 11     |          |      |        |                  |       |                     |                    |                    |           |
| 07260   | XA502  |           | 61  |        |           |     |           |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 21008   | XA502  |           | 62  |        | XA502     | 64  |           | 16B  | 9     |       | GND024   | 02     |          |      |        |                  |       |                     |                    |                    |           |
| 07262   | XA502  |           | 63  |        |           |     |           |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 21009   | XA502  |           | 64  |        | XA502     | 66  |           | 16B  | 9     |       | GND024   | 03     |          |      |        |                  |       |                     |                    |                    |           |
| 07264   | XA502  |           | 65  |        |           |     |           |      |       |       | SPP      | 01     |          |      |        |                  |       |                     |                    |                    |           |
| 21010   | XA502  |           | 66  |        | XA502     | 68  |           | 16B  | 9     |       | GND024   | 04     |          |      |        |                  |       |                     |                    |                    |           |
| CONNECTOR (XA502) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |           |      |       |       |          |        |          |      |        |                  |       |                     |                    |                    |           |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA502  
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| RECORD NUMBER | FROM   |           |                                 | SH | TO     |           |     | SH | WIRE  |      |       |         | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCHOR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|----|-------|------|-------|---------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             |    | PREFIX | CONNECTOR | PIN |    | GROUP | CODE | COLOR | IDENT   |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07266         |        | XA502     | 67                              |    |        |           |     |    |       |      |       | SPP     | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 21011         |        | XA502     | 68                              |    |        | XA502     | 70  |    |       |      |       | GND024  | 05     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07268         |        | XA502     | 69                              |    |        |           |     |    |       |      |       | SPP     | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 21012         |        | XA502     | 70                              |    |        | XA502     | 72  |    |       |      |       | GND024  | 06     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07270         |        | XA502     | 71                              |    |        |           |     |    |       |      |       | SPP     | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 21013         |        | XA502     | 72                              |    |        | XA502     | 74  |    |       |      |       | GND024  | 07     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07272         |        | XA502     | 73                              |    |        |           |     |    |       |      |       | SPP     | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 21014         |        | XA502     | 74                              |    |        | XA502     | 76  |    |       |      |       | GND024  | 08     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07274         |        | XA502     | 75                              |    |        |           |     |    |       |      |       | SPP     | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 21015         |        | XA502     | 76                              |    |        | XA502     | 78  |    |       |      |       | GND024  | 09     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07276         |        | XA502     | 77                              |    |        |           |     |    |       |      |       | SPP     | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 21016         |        | XA502     | 78                              |    |        | XA502     | 80  |    |       |      |       | GND024  | 10     |        |          |      |        |                  |       |                     |                    |                    |        |
| 07278         |        | XA502     | 79                              |    |        |           |     |    |       |      |       | SPP     | 01     |        |          |      |        |                  |       |                     |                    |                    |        |
| 21017         |        | XA502     | 80                              |    |        |           |     |    |       |      |       | GND024  | 11     |        |          |      |        |                  |       |                     |                    |                    |        |
| 19835         |        | XA503     | 01                              |    |        |           |     |    |       |      |       | XI0PDHX | 02     | XIDUMZ | 05       | 5    |        |                  |       |                     |                    |                    |        |
| 19831         |        | XA503     | 02                              | 3  |        | XA512     | 3I  | 3  |       |      |       | XI0PDGX | 01     | XIDUMZ | 01       | 5    |        |                  |       |                     |                    |                    |        |
| 19843         |        | XA503     | 03                              |    |        |           |     |    |       |      |       | XI00DHX | 02     | XIDUMZ | 01       | 2    |        |                  |       |                     |                    |                    |        |
| 19841         |        | XA503     | 04                              |    |        |           |     |    |       |      |       | XI00DGX | 03     | XIDUMZ | 01       | 1    |        |                  |       |                     |                    |                    |        |
| 19851         |        | XA503     | 05                              |    |        |           |     |    |       |      |       | XI01DHX | 02     | XIDUMZ | 02       | 2    |        |                  |       |                     |                    |                    |        |
| 19847         |        | XA503     | 06                              | 3  |        | XA510     | 23  | 3  |       |      |       | XI01DGX | 01     | XIDUMZ | 02       | 1    |        |                  |       |                     |                    |                    |        |
| 19859         |        | XA503     | 07                              |    |        |           |     |    |       |      |       | XI02DHX | 02     | XIDUMZ | 03       | 2    |        |                  |       |                     |                    |                    |        |
| 19857         |        | XA503     | 08                              |    |        |           |     |    |       |      |       | XI02DGX | 03     | XIDUMZ | 03       | 1    |        |                  |       |                     |                    |                    |        |
| 19867         |        | XA503     | 09                              |    |        |           |     |    |       |      |       | XI03DHX | 02     | XIDUMZ | 04       | 2    |        |                  |       |                     |                    |                    |        |
| 19865         |        | XA503     | 10                              |    |        |           |     |    |       |      |       | XI03DGX | 03     | XIDUMZ | 04       | 1    |        |                  |       |                     |                    |                    |        |
| 19875         |        | XA503     | 11                              |    |        |           |     |    |       |      |       | XI04DHX | 02     | XIDUMZ | 05       | 2    |        |                  |       |                     |                    |                    |        |
| 19873         |        | XA503     | 12                              |    |        |           |     |    |       |      |       | XI04DGX | 03     | XIDUMZ | 05       | 1    |        |                  |       |                     |                    |                    |        |
| 19883         |        | XA503     | 13                              |    |        |           |     |    |       |      |       | XI05DHX | 02     | XIDUMZ | 06       | 2    |        |                  |       |                     |                    |                    |        |
| 19881         |        | XA503     | 14                              |    |        |           |     |    |       |      |       | XI05DGX | 03     | XIDUMZ | 06       | 1    |        |                  |       |                     |                    |                    |        |
| 19891         |        | XA503     | 15                              |    |        |           |     |    |       |      |       | XI06DHX | 02     | XIDUMZ | 07       | 2    |        |                  |       |                     |                    |                    |        |
| 19889         |        | XA503     | 16                              |    |        |           |     |    |       |      |       | XI06DGX | 03     | XIDUMZ | 07       | 1    |        |                  |       |                     |                    |                    |        |
| 19899         |        | XA503     | 17                              |    |        |           |     |    |       |      |       | XI07DHX | 02     | XIDUMZ | 08       | 2    |        |                  |       |                     |                    |                    |        |
| 19897         |        | XA503     | 18                              |    |        |           |     |    |       |      |       | XI07DGX | 03     | XIDUMZ | 08       | 1    |        |                  |       |                     |                    |                    |        |
| 19684         |        | XA503     | 19                              |    |        |           |     |    |       |      |       | XI00DHX | 02     | XIDUMZ | 01       | 4    |        |                  |       |                     |                    |                    |        |
| 19680         |        | XA503     | 20                              | 3  |        | XA512     | 23  | 3  |       |      |       | XI00DGX | 01     | XIDUMZ | 01       | 3    |        |                  |       |                     |                    |                    |        |
| 19703         |        | XA503     | 21                              |    |        |           |     |    |       |      |       | XI01DHX | 02     | XIDUMZ | 02       | 4    |        |                  |       |                     |                    |                    |        |
| 19701         |        | XA503     | 22                              |    |        |           |     |    |       |      |       | XI01DGX | 03     | XIDUMZ | 02       | 3    |        |                  |       |                     |                    |                    |        |
| 19722         |        | XA503     | 23                              |    |        |           |     |    |       |      |       | XI02DHX | 02     | XIDUMZ | 03       | 4    |        |                  |       |                     |                    |                    |        |
| 19720         |        | XA503     | 24                              |    |        |           |     |    |       |      |       | XI02DGX | 03     | XIDUMZ | 03       | 3    |        |                  |       |                     |                    |                    |        |
| 19741         |        | XA503     | 25                              |    |        |           |     |    |       |      |       | XI03DHX | 02     | XIDUMZ | 04       | 4    |        |                  |       |                     |                    |                    |        |
| 19739         |        | XA503     | 26                              |    |        |           |     |    |       |      |       | XI03DGX | 03     | XIDUMZ | 04       | 3    |        |                  |       |                     |                    |                    |        |
| 19760         |        | XA503     | 27                              |    |        |           |     |    |       |      |       | XI04DHX | 02     | XIDUMZ | 05       | 4    |        |                  |       |                     |                    |                    |        |
| 19758         |        | XA503     | 28                              |    |        |           |     |    |       |      |       | XI04DGX | 03     | XIDUMZ | 05       | 3    |        |                  |       |                     |                    |                    |        |
| 19779         |        | XA503     | 29                              |    |        |           |     |    |       |      |       | XI05DHX | 02     | XIDUMZ | 06       | 4    |        |                  |       |                     |                    |                    |        |
| 19777         |        | XA503     | 30                              |    |        |           |     |    |       |      |       | XI05DGX | 03     | XIDUMZ | 06       | 3    |        |                  |       |                     |                    |                    |        |
| 19798         |        | XA503     | 31                              |    |        |           |     |    |       |      |       | XI06DHX | 02     | XIDUMZ | 07       | 4    |        |                  |       |                     |                    |                    |        |
| 19796         |        | XA503     | 32                              |    |        |           |     |    |       |      |       | XI06DGX | 03     | XIDUMZ | 07       | 3    |        |                  |       |                     |                    |                    |        |
| 19815         |        | XA503     | 33                              |    |        |           |     |    |       |      |       | XI07DHX | 02     | XIDUMZ | 08       | 4    |        |                  |       |                     |                    |                    |        |
| 19811         |        | XA503     | 34                              | 3  |        | XA514     | 33  | 3  |       |      |       | XI07DGX | 01     | XIDUMZ | 08       | 3    |        |                  |       |                     |                    |                    |        |
| CONNECTOR     |        | XA503     | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |    |       |      |       |         |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA503  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 354

| RECORD NUMBER | FROM   |           |                                 |    | TO     |           |     |    | WIRE        |      |       |       | SFC INST. MISC. | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|----|-------------|------|-------|-------|-----------------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | NO | PREFIX | CONNECTOR | PIN | NO | MULTI GROUP | CODE | COLOR | IDENT |                 |          |        |          |      |        |                  |       |                     |                    |                    |        |
| 19574         |        | XA503     | 35                              |    |        |           |     |    |             |      |       |       |                 | XIENDHX  | 02     | XIDUMZ   | 06   | 5      | EXT              |       |                     |                    |                    |        |
| 19572         |        | XA503     | 36                              |    |        |           |     |    |             |      |       |       |                 | XIENDGX  | 03     | XIDUMZ   | 02   | 5      | EXT              |       |                     |                    |                    |        |
| 19515         |        | XA503     | 37                              |    |        |           |     |    |             |      |       |       |                 | XICMDHX  | 02     | XIDUMZ   | 07   | 5      | EXT              |       |                     |                    |                    |        |
| 19511         |        | XA503     | 38                              | 3  | XA514  | 53        | 3   |    | 16B         | 9    |       |       |                 | XICMDGX  | 01     | XIDUMZ   | 03   | 5      | EXT              |       |                     |                    |                    |        |
| 19605         |        | XA503     | 39                              |    |        |           |     |    |             |      |       |       |                 | XIINDHX  | 02     | XIDUMZ   | 08   | 5      | EXT              |       |                     |                    |                    |        |
| 19603         |        | XA503     | 40                              |    |        |           |     |    |             |      |       |       |                 | XIINDGX  | 03     | XIDUMZ   | 04   | 5      | EXT              |       |                     |                    |                    |        |
| 07280         |        | XA503     | 41                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21041         |        | XA503     | 42                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07281         |        | XA503     | 43                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21042         |        | XA503     | 44                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07282         |        | XA503     | 45                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21043         |        | XA503     | 46                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07283         |        | XA503     | 47                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21044         |        | XA503     | 48                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07284         |        | XA503     | 49                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21045         |        | XA503     | 50                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 03817         |        | XA503     | 51                              |    | XA201  | 03        |     |    | 16B         | 9    |       |       |                 | KCMPMDX4 | 01     |          |      |        | EXT              |       |                     |                    |                    | DO4    |
| 21046         |        | XA503     | 52                              |    |        |           |     |    |             |      |       |       |                 | KCMPMDG4 | 03     |          |      |        | EXT              |       |                     |                    |                    | DO4    |
| 07285         |        | XA503     | 53                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21047         |        | XA503     | 54                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07286         |        | XA503     | 55                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21048         |        | XA503     | 56                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07287         |        | XA503     | 57                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21049         |        | XA503     | 58                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07288         |        | XA503     | 59                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21050         |        | XA503     | 60                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07289         |        | XA503     | 61                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21052         |        | XA503     | 62                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07290         |        | XA503     | 63                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21053         |        | XA503     | 64                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07291         |        | XA503     | 65                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21054         |        | XA503     | 66                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07292         |        | XA503     | 67                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21055         |        | XA503     | 68                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 07293         |        | XA503     | 69                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21056         |        | XA503     | 70                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 00265         |        | XA503     | 71                              |    |        |           |     |    |             |      |       |       |                 | +5IOET   | 05     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21057         |        | XA503     | 72                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 00264         |        | XA503     | 73                              |    | XA503  | 71        |     |    | 16B         | 9    |       |       |                 | +5IOET   | 04     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21058         |        | XA503     | 74                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 00263         |        | XA503     | 75                              |    | XA503  | 73        |     |    | 16B         | 9    |       |       |                 | +5IOET   | 03     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21059         |        | XA503     | 76                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 00262         |        | XA503     | 77                              |    | XA503  | 75        |     |    | 16B         | 9    |       |       |                 | +5IOET   | 02     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21060         |        | XA503     | 78                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 00261         |        | XA503     | 79                              |    | XA503  | 77        |     |    | 16B         | 9    |       |       |                 | +5IOET   | 01     |          |      |        | EXT              |       |                     |                    |                    |        |
| 21061         |        | XA503     | 80                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 01     |          |      |        | EXT              |       |                     |                    |                    | A01    |
| 19389         |        | XA504     | 01                              |    |        |           |     |    |             |      |       |       |                 | SPP      | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 03489         |        | XA504     | 02                              |    |        |           |     |    |             |      |       |       |                 | G40344   | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| CONNECTOR     |        | XA504     | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |    |             |      |       |       |                 |          |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA504  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 355

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SFC INST. USE | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GND | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|---------------|--------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | DIAG | MULTI GROUP | CODE | COLOR |               |        |        |          |      |        |                  |     |                     |                    |                    |        |
| 21297   |        | XA504     | 02  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19385   |        | XA504     | 03  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19402   |        | XA504     | 04  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19415   |        | XA504     | 05  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19398   |        | XA504     | 06  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19411   |        | XA504     | 07  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19428   |        | XA504     | 08  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 07294   |        | XA504     | 09  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19424   |        | XA504     | 10  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 03896   |        | XA504     | 11  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 03897   |        | XA504     | 12  |        |           |     |      |             |      |       |               | +5V    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19441   |        | XA504     | 13  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19454   |        | XA504     | 14  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19437   |        | XA504     | 15  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 02952   |        | XA504     | 16  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19467   |        | XA504     | 17  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19450   |        | XA504     | 18  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19463   |        | XA504     | 19  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19480   |        | XA504     | 20  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19493   |        | XA504     | 21  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19476   |        | XA504     | 22  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19489   |        | XA504     | 23  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19212   |        | XA504     | 24  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19234   |        | XA504     | 25  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19208   |        | XA504     | 26  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19230   |        | XA504     | 27  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 00658   |        | XA504     | 28  |        |           |     |      |             |      |       |               | +5V    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19256   |        | XA504     | 29  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19278   |        | XA504     | 30  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19252   |        | XA504     | 31  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 02953   |        | XA504     | 32  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19300   |        | XA504     | 33  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19274   |        | XA504     | 34  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19296   |        | XA504     | 35  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19322   |        | XA504     | 36  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19344   |        | XA504     | 37  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19318   |        | XA504     | 38  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19340   |        | XA504     | 39  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19364   |        | XA504     | 40  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19130   |        | XA504     | 41  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19360   |        | XA504     | 42  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19126   |        | XA504     | 43  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 03513   |        | XA504     | 44  |        |           |     |      |             |      |       |               | GND    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 07295   |        | XA504     | 45  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19089   |        | XA504     | 46  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19160   |        | XA504     | 47  |        |           |     |      |             |      |       |               | SPP    | 03     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19085   |        | XA504     | 48  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 19156   |        | XA504     | 49  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 07296   |        | XA504     | 50  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| 07297   |        | XA504     | 51  |        |           |     |      |             |      |       |               | SPP    | 01     |          |      |        |                  |     |                     |                    |                    | A01    |
| CONNECTOR XA504 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |               |        |        |          |      |        |                  |     |                     |                    |                    |        |

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 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 356

| RECORD NUMBER | FROM   |           |                                 | INFO | TO     |           |     | WIRE        |      |       |       | SPEC INST | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |        | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|-------------|------|-------|-------|-----------|--------|--------|----------|------|--------|------------------|-------|---------------------|-------------|--------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             |      | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLCR | IDENT |           |        |        |          |      |        |                  |       |                     | AND OR      | AND OR |                    |        |
| 07298         |        | XA504     | 52                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07299         |        | XA504     | 53                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07300         |        | XA504     | 54                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07301         |        | XA504     | 55                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07302         |        | XA504     | 56                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 14177         |        | XA504     | 57                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 03492         |        | XA504     | 58                              |      |        |           |     |             |      |       |       | G50144    | 03     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 21298         |        | XA504     | 58                              |      |        |           |     |             |      |       |       | GND       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07303         |        | XA504     | 59                              |      |        |           |     |             |      |       |       | SPP       | 02     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 20514         |        | XA504     | 60                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 14219         |        | XA504     | 61                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07304         |        | XA504     | 62                              |      |        |           |     |             |      |       |       | SPP       | 02     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 14218         |        | XA504     | 63                              |      |        |           |     |             |      |       |       | SPP       | 30     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 14259         |        | XA504     | 64                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07305         |        | XA504     | 65                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 14258         |        | XA504     | 66                              |      |        |           |     |             |      |       |       | SPP       | 36     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 03898         |        | XA504     | 67                              |      |        |           |     |             |      |       |       | GND       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 03899         |        | XA504     | 68                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 14215         |        | XA504     | 69                              |      |        |           |     |             |      |       |       | SPP       | 03     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07306         |        | XA504     | 70                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 14262         |        | XA504     | 71                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 14284         |        | XA504     | 72                              |      |        |           |     |             |      |       |       | SPP       | 02     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 03784         |        | XA504     | 73                              |      |        |           |     |             |      |       |       | SPP       | 03     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 21326         |        | XA504     | 74                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 03779         |        | XA504     | 75                              |      |        |           |     |             |      |       |       | SPP       | 04     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07307         |        | XA504     | 76                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07308         |        | XA504     | 77                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07309         |        | XA504     | 78                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07310         |        | XA504     | 79                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07311         |        | XA504     | 80                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 18975         |        | XA505     | 01                              |      |        |           |     |             |      |       |       | SPP       | 03     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 02954         |        | XA505     | 02                              |      |        |           |     |             |      |       |       | GND       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 18971         |        | XA505     | 03                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 18988         |        | XA505     | 04                              |      |        |           |     |             |      |       |       | SPP       | 03     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 19001         |        | XA505     | 05                              |      |        |           |     |             |      |       |       | SPP       | 03     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 18984         |        | XA505     | 06                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 18997         |        | XA505     | 07                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 19014         |        | XA505     | 08                              |      |        |           |     |             |      |       |       | SPP       | 03     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 07312         |        | XA505     | 09                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 19010         |        | XA505     | 10                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 03900         |        | XA505     | 11                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 03901         |        | XA505     | 12                              |      |        |           |     |             |      |       |       | +5V       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 19027         |        | XA505     | 13                              |      |        |           |     |             |      |       |       | SPP       | 03     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 19040         |        | XA505     | 14                              |      |        |           |     |             |      |       |       | SPP       | 03     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 19023         |        | XA505     | 15                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 02955         |        | XA505     | 16                              |      |        |           |     |             |      |       |       | GND       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 19053         |        | XA505     | 17                              |      |        |           |     |             |      |       |       | SPP       | 03     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| 19036         |        | XA505     | 18                              |      |        |           |     |             |      |       |       | SPP       | 01     |        |          |      |        |                  |       |                     |             |        | A01                |        |
| CONNECTOR     |        | XA505     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |             |      |       |       |           |        |        |          |      |        |                  |       |                     |             |        |                    |        |



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 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 357

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |    |    |    | SFC INST. MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD GP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |     |
|---|--------|-----------|-----|--------|-----------|-----|------|----|----|----|----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|-----|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | DI   | DI | DI | DI |                |        |        |          |      |        |                  |       |                     |                    |                    |        |     |
| 19049   |        | XA505     | 19  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |     |
| 19066   |        | XA505     | 20  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 19079   |        | XA505     | 21  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 19062   |        | XA505     | 22  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 19075   |        | XA505     | 23  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18798   |        | XA505     | 24  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18820   |        | XA505     | 25  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18795   |        | XA505     | 26  |        |           |     |      |    |    |    |                | SPP    | 02     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18816   |        | XA505     | 27  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 00659   |        | XA505     | 28  |        |           |     |      |    |    |    |                | +5V    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18842   |        | XA505     | 29  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18864   |        | XA505     | 30  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18838   |        | XA505     | 31  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 02956   |        | XA505     | 32  |        |           |     |      |    |    |    |                | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18886   |        | XA505     | 33  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18860   |        | XA505     | 34  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18882   |        | XA505     | 35  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18908   |        | XA505     | 36  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18930   |        | XA505     | 37  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18904   |        | XA505     | 38  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18926   |        | XA505     | 39  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18950   |        | XA505     | 40  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18716   |        | XA505     | 41  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18946   |        | XA505     | 42  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18712   |        | XA505     | 43  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 02957   |        | XA505     | 44  |        |           |     |      |    |    |    |                | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07313   |        | XA505     | 45  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18675   |        | XA505     | 46  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18746   |        | XA505     | 47  |        |           |     |      |    |    |    |                | SPP    | 03     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18672   |        | XA505     | 48  |        |           |     |      |    |    |    |                | SPP    | 02     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 18742   |        | XA505     | 49  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07314   |        | XA505     | 50  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07315   |        | XA505     | 51  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07316   |        | XA505     | 52  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07317   |        | XA505     | 53  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07318   |        | XA505     | 54  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07319   |        | XA505     | 55  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07320   |        | XA505     | 56  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07321   |        | XA505     | 57  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 02958   |        | XA505     | 58  |        |           |     |      |    |    |    |                | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07322   |        | XA505     | 59  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07323   |        | XA505     | 60  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07324   |        | XA505     | 61  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07325   |        | XA505     | 62  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07326   |        | XA505     | 63  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07327   |        | XA505     | 64  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07328   |        | XA505     | 65  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07329   |        | XA505     | 66  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 03902   |        | XA505     | 67  |        |           |     |      |    |    |    |                | GND    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 03903   |        | XA505     | 68  |        |           |     |      |    |    |    |                | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        | A01 |
| CONNECTOR (XA505) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |    |    |    |                |        |        |          |      |        |                  |       |                     |                    |                    |        |     |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA505  
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| RECORD NUMBER | FROM   |                                 |     | TO     |           |     | WIRE |             |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|---------------------------------|-----|--------|-----------|-----|------|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07330         |        | XA505                           | 69  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 07331         |        | XA505                           | 70  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07332         |        | XA505                           | 71  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07333         |        | XA505                           | 72  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07334         |        | XA505                           | 73  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07335         |        | XA505                           | 74  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07336         |        | XA505                           | 75  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07337         |        | XA505                           | 76  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07338         |        | XA505                           | 77  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07339         |        | XA505                           | 78  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07340         |        | XA505                           | 79  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07341         |        | XA505                           | 80  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18561         |        | XA506                           | 01  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 02959         |        | XA506                           | 02  |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18557         |        | XA506                           | 03  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18574         |        | XA506                           | 04  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18587         |        | XA506                           | 05  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18570         |        | XA506                           | 06  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18583         |        | XA506                           | 07  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18600         |        | XA506                           | 08  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07342         |        | XA506                           | 09  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18596         |        | XA506                           | 10  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 03904         |        | XA506                           | 11  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 03905         |        | XA506                           | 12  |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18613         |        | XA506                           | 13  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18626         |        | XA506                           | 14  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18609         |        | XA506                           | 15  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 02960         |        | XA506                           | 16  |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18639         |        | XA506                           | 17  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18622         |        | XA506                           | 18  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18635         |        | XA506                           | 19  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18652         |        | XA506                           | 20  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18665         |        | XA506                           | 21  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18648         |        | XA506                           | 22  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18661         |        | XA506                           | 23  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18384         |        | XA506                           | 24  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18406         |        | XA506                           | 25  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18381         |        | XA506                           | 26  |        |           |     |      |             |      |       |       | SPP    | 02     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18402         |        | XA506                           | 27  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 00660         |        | XA506                           | 28  |        |           |     |      |             |      |       |       | +5V    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18428         |        | XA506                           | 29  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18450         |        | XA506                           | 30  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18424         |        | XA506                           | 31  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 02961         |        | XA506                           | 32  |        |           |     |      |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18472         |        | XA506                           | 33  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18446         |        | XA506                           | 34  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18468         |        | XA506                           | 35  |        |           |     |      |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 18494         |        | XA506                           | 36  |        |           |     |      |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| CONNECTOR     | XA506  | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |      |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA506  
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| RECORD NUMBER                                   | FROM   |           |     | TO    |        |           | WIRE |       |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | SIGN | LOAD OR POWER PLANE | TEST POINTS AND DR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|------|-------|-------------|------|-------|--------|--------|----------|-------------|------------------|------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | DR FC | PREFIX | CONNECTOR | PIN  | DR FC | MULTI GROUP | CODE | COLOR |        |        |          |             |                  |      |                     |                    |                    |        |
| 18516   |        | XA506     | 37  |       |        |           |      |       |             |      |       | SPP    | 03     |          |             |                  |      |                     |                    |                    |        |
| 18490   |        | XA506     | 38  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 18512   |        | XA506     | 39  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 18536   |        | XA506     | 40  |       |        |           |      |       |             |      |       | SPP    | 03     |          |             |                  |      |                     |                    |                    | A01    |
| 18302   |        | XA506     | 41  |       |        |           |      |       |             |      |       | SPP    | 03     |          |             |                  |      |                     |                    |                    | A01    |
| 18532   |        | XA506     | 42  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 18298   |        | XA506     | 43  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 02962   |        | XA506     | 44  |       |        |           |      |       |             |      |       | GND    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07343   |        | XA506     | 45  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 18261   |        | XA506     | 46  |       |        |           |      |       |             |      |       | SPP    | 03     |          |             |                  |      |                     |                    |                    | A01    |
| 18332   |        | XA506     | 47  |       |        |           |      |       |             |      |       | SPP    | 03     |          |             |                  |      |                     |                    |                    | A01    |
| 18257   |        | XA506     | 48  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 18328   |        | XA506     | 49  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07344   |        | XA506     | 50  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07345   |        | XA506     | 51  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07346   |        | XA506     | 52  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07347   |        | XA506     | 53  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07348   |        | XA506     | 54  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07349   |        | XA506     | 55  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07350   |        | XA506     | 56  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07351   |        | XA506     | 57  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 02963   |        | XA506     | 58  |       |        |           |      |       |             |      |       | GND    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07352   |        | XA506     | 59  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07353   |        | XA506     | 60  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07354   |        | XA506     | 61  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07355   |        | XA506     | 62  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07356   |        | XA506     | 63  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07357   |        | XA506     | 64  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07358   |        | XA506     | 65  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07359   |        | XA506     | 66  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 03906   |        | XA506     | 67  |       |        |           |      |       |             |      |       | GND    | 01     |          |             |                  |      |                     |                    |                    | B04    |
| 03907   |        | XA506     | 68  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | B04    |
| 07360   |        | XA506     | 69  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07361   |        | XA506     | 70  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07362   |        | XA506     | 71  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07363   |        | XA506     | 72  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07364   |        | XA506     | 73  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07365   |        | XA506     | 74  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07366   |        | XA506     | 75  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07367   |        | XA506     | 76  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07368   |        | XA506     | 77  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07369   |        | XA506     | 78  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07370   |        | XA506     | 79  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 07371   |        | XA506     | 80  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 18147   |        | XA507     | 01  |       |        |           |      |       |             |      |       | SPP    | 03     |          |             |                  |      |                     |                    |                    | A01    |
| 02964   |        | XA507     | 02  |       |        |           |      |       |             |      |       | GND    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 18143   |        | XA507     | 03  |       |        |           |      |       |             |      |       | SPP    | 01     |          |             |                  |      |                     |                    |                    | A01    |
| 18160   |        | XA507     | 04  |       |        |           |      |       |             |      |       | SPP    | 03     |          |             |                  |      |                     |                    |                    | A01    |
| CONNECTOR XA507 CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |      |       |             |      |       |        |        |          |             |                  |      |                     |                    |                    |        |

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| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |     | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|-------------|-----|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |        |          |      |        |                  |       |                     | IDENT       | AND |                    |        |
| 18173   |        | XA507     | 05  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18156   |        | XA507     | 06  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18169   |        | XA507     | 07  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18186   |        | XA507     | 08  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 07372   |        | XA507     | 09  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18182   |        | XA507     | 10  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 03908   |        | XA507     | 11  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 03909   |        | XA507     | 12  |        |           |     |      |             |      |       | +5V    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18199   |        | XA507     | 13  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18212   |        | XA507     | 14  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18195   |        | XA507     | 15  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 02965   |        | XA507     | 16  |        |           |     |      |             |      |       | GND    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18225   |        | XA507     | 17  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18208   |        | XA507     | 18  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18221   |        | XA507     | 19  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18238   |        | XA507     | 20  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18251   |        | XA507     | 21  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18234   |        | XA507     | 22  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18247   |        | XA507     | 23  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 17970   |        | XA507     | 24  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 17992   |        | XA507     | 25  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 17967   |        | XA507     | 26  |        |           |     |      |             |      |       | SPP    | 02     |          |      |        |                  |       |                     |             |     | A01                |        |
| 17988   |        | XA507     | 27  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 00661   |        | XA507     | 28  |        |           |     |      |             |      |       | +5V    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18014   |        | XA507     | 29  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18036   |        | XA507     | 30  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18010   |        | XA507     | 31  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 02966   |        | XA507     | 32  |        |           |     |      |             |      |       | GND    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18058   |        | XA507     | 33  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18032   |        | XA507     | 34  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18054   |        | XA507     | 35  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18080   |        | XA507     | 36  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18102   |        | XA507     | 37  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18076   |        | XA507     | 38  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18098   |        | XA507     | 39  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18122   |        | XA507     | 40  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 17888   |        | XA507     | 41  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 18118   |        | XA507     | 42  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 17884   |        | XA507     | 43  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 02967   |        | XA507     | 44  |        |           |     |      |             |      |       | GND    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 07373   |        | XA507     | 45  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 17847   |        | XA507     | 46  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 17918   |        | XA507     | 47  |        |           |     |      |             |      |       | SPP    | 03     |          |      |        |                  |       |                     |             |     | A01                |        |
| 17843   |        | XA507     | 48  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 17914   |        | XA507     | 49  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 07374   |        | XA507     | 50  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 07375   |        | XA507     | 51  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 07376   |        | XA507     | 52  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 07377   |        | XA507     | 53  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| 07378   |        | XA507     | 54  |        |           |     |      |             |      |       | SPP    | 01     |          |      |        |                  |       |                     |             |     | A01                |        |
| CONNECTOR (XA507) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |        |          |      |        |                  |       |                     |             |     |                    |        |

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| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 07379   |        | XA507     | 55  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07380   |        | XA507     | 56  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07381   |        | XA507     | 57  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 02968   |        | XA507     | 58  |        |           |     |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07382   |        | XA507     | 59  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07383   |        | XA507     | 60  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07384   |        | XA507     | 61  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07385   |        | XA507     | 62  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07386   |        | XA507     | 63  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07387   |        | XA507     | 64  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07388   |        | XA507     | 65  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07389   |        | XA507     | 66  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 03910   |        | XA507     | 67  |        |           |     |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 03911   |        | XA507     | 68  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07390   |        | XA507     | 69  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07391   |        | XA507     | 70  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07392   |        | XA507     | 71  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07393   |        | XA507     | 72  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07394   |        | XA507     | 73  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07395   |        | XA507     | 74  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07396   |        | XA507     | 75  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07397   |        | XA507     | 76  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07398   |        | XA507     | 77  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07399   |        | XA507     | 78  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07400   |        | XA507     | 79  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07401   |        | XA507     | 80  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17733   |        | XA508     | 01  |        |           |     |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 02969   |        | XA508     | 02  |        |           |     |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17729   |        | XA508     | 03  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17746   |        | XA508     | 04  |        |           |     |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17759   |        | XA508     | 05  |        |           |     |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17742   |        | XA508     | 06  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17755   |        | XA508     | 07  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17772   |        | XA508     | 08  |        |           |     |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 07402   |        | XA508     | 09  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17768   |        | XA508     | 10  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 03912   |        | XA508     | 11  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 03913   |        | XA508     | 12  |        |           |     |             |      |       |       | +5V    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17785   |        | XA508     | 13  |        |           |     |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17798   |        | XA508     | 14  |        |           |     |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17781   |        | XA508     | 15  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 02970   |        | XA508     | 16  |        |           |     |             |      |       |       | GND    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17811   |        | XA508     | 17  |        |           |     |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17794   |        | XA508     | 18  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17807   |        | XA508     | 19  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17824   |        | XA508     | 20  |        |           |     |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17837   |        | XA508     | 21  |        |           |     |             |      |       |       | SPP    | 03     |          |      |        |                  |       |                     |                    |                    | A01    |
| 17820   |        | XA508     | 22  |        |           |     |             |      |       |       | SPP    | 01     |          |      |        |                  |       |                     |                    |                    | A01    |
| CONNECTOR (XA508) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

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| RECORD NUMBER | FROM      |           |     |       | TO     |           |     |       | WIRE |  |  |  | MULTI GROUP | CODE | COLOR                           | IDENT | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |     |
|---------------|-----------|-----------|-----|-------|--------|-----------|-----|-------|------|--|--|--|-------------|------|---------------------------------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|-----|
|               | PREFIX    | CONNECTOR | PIN | SH FE | PREFIX | CONNECTOR | PIN | SH FE |      |  |  |  |             |      |                                 |       |        |        |          |      |        |                  |       |                     |                    |                    |        |     |
| 17833         |           | XA508     | 23  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    | A01    |     |
| 17556         |           | XA508     | 24  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17578         |           | XA508     | 25  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17552         |           | XA508     | 26  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17575         |           | XA508     | 27  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 02     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 00662         |           | XA508     | 28  |       |        |           |     |       |      |  |  |  |             |      |                                 | +5V   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17600         |           | XA508     | 29  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17622         |           | XA508     | 30  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17597         |           | XA508     | 31  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 02     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 02971         |           | XA508     | 32  |       |        |           |     |       |      |  |  |  |             |      |                                 | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17644         |           | XA508     | 33  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17618         |           | XA508     | 34  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17640         |           | XA508     | 35  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17666         |           | XA508     | 36  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17688         |           | XA508     | 37  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17663         |           | XA508     | 38  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 02     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17684         |           | XA508     | 39  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17708         |           | XA508     | 40  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17474         |           | XA508     | 41  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17704         |           | XA508     | 42  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17470         |           | XA508     | 43  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 02972         |           | XA508     | 44  |       |        |           |     |       |      |  |  |  |             |      |                                 | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07403         |           | XA508     | 45  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17433         |           | XA508     | 46  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17504         |           | XA508     | 47  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 03     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17429         |           | XA508     | 48  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 17501         |           | XA508     | 49  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 02     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07404         |           | XA508     | 50  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07405         |           | XA508     | 51  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07406         |           | XA508     | 52  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07407         |           | XA508     | 53  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07408         |           | XA508     | 54  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07409         |           | XA508     | 55  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07410         |           | XA508     | 56  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07411         |           | XA508     | 57  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 02973         |           | XA508     | 58  |       |        |           |     |       |      |  |  |  |             |      |                                 | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07412         |           | XA508     | 59  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07413         |           | XA508     | 60  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07414         |           | XA508     | 61  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07415         |           | XA508     | 62  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07416         |           | XA508     | 63  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07417         |           | XA508     | 64  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07418         |           | XA508     | 65  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07419         |           | XA508     | 66  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 03914         |           | XA508     | 67  |       |        |           |     |       |      |  |  |  |             |      |                                 | GND   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 03915         |           | XA508     | 68  |       |        |           |     |       |      |  |  |  |             |      |                                 | KEY   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07420         |           | XA508     | 69  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07421         |           | XA508     | 70  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07422         |           | XA508     | 71  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
| 07423         |           | XA508     | 72  |       |        |           |     |       |      |  |  |  |             |      |                                 | SPP   | 01     |        |          |      |        |                  |       |                     |                    |                    |        | A01 |
|               | CONNECTOR | XA508     |     |       |        |           |     |       |      |  |  |  |             |      | CONTINUED ON THE NEXT PAGE **** |       |        |        |          |      |        |                  |       |                     |                    |                    |        |     |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA508  
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| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE    |             |      |       |       | SPP INST | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GND | LOAD OF POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|---------|-------------|------|-------|-------|----------|--------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR | IDENT |          |        |        |          |      |        |                  |     |                     |                    |                    |        |
| 07424   | XA508  | 73        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    | A01    |
| 07425   | XA508  | 74        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    | A01    |
| 07426   | XA508  | 75        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    | A01    |
| 07427   | XA508  | 76        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    | A01    |
| 07428   | XA508  | 77        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    | A01    |
| 07429   | XA508  | 78        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    | A01    |
| 07430   | XA508  | 79        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    | A01    |
| 07431   | XA508  | 80        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    | A01    |
| 07432   | XA509  | 01        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 02974   | XA509  | 02        |     |        |           |     |         |             |      |       |       | GND      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07433   | XA509  | 03        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07434   | XA509  | 04        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07435   | XA509  | 05        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07436   | XA509  | 06        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07437   | XA509  | 07        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07438   | XA509  | 08        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07439   | XA509  | 09        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07440   | XA509  | 10        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07441   | XA509  | 11        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 00663   | XA509  | 12        |     |        |           |     |         |             |      |       |       | +5V      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07442   | XA509  | 13        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07443   | XA509  | 14        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07444   | XA509  | 15        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 02975   | XA509  | 16        |     |        |           |     |         |             |      |       |       | GND      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07445   | XA509  | 17        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07446   | XA509  | 18        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07447   | XA509  | 19        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07448   | XA509  | 20        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07449   | XA509  | 21        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07450   | XA509  | 22        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07451   | XA509  | 23        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07452   | XA509  | 24        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07453   | XA509  | 25        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07454   | XA509  | 26        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07455   | XA509  | 27        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 00664   | XA509  | 28        |     |        |           |     |         |             |      |       |       | +5V      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07456   | XA509  | 29        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07457   | XA509  | 30        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07458   | XA509  | 31        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 02976   | XA509  | 32        |     |        |           |     |         |             |      |       |       | GND      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07459   | XA509  | 33        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07460   | XA509  | 34        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07461   | XA509  | 35        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07462   | XA509  | 36        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07463   | XA509  | 37        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07464   | XA509  | 38        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07465   | XA509  | 39        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| 07466   | XA509  | 40        |     |        |           |     |         |             |      |       |       | SPP      | 01     |        |          |      |        |                  |     |                     |                    |                    |        |
| CONNECTOR (XA509) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |         |             |      |       |       |          |        |        |          |      |        |                  |     |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA509  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 364

| RECORD NUMBER                                     | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |           | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|-------------|-----------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | USE | PREFIX | CONNECTOR | PIN | USE | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     | AND         | OR        |                    |        |
| 07467   |        | XA509     | 41  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07468   |        | XA509     | 42  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07469   |        | XA509     | 43  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 02977   |        | XA509     | 44  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07470   |        | XA509     | 45  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07471   |        | XA509     | 46  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07472   |        | XA509     | 47  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07473   |        | XA509     | 48  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07474   |        | XA509     | 49  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07475   |        | XA509     | 50  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07476   |        | XA509     | 51  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07477   |        | XA509     | 52  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07478   |        | XA509     | 53  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07479   |        | XA509     | 54  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07480   |        | XA509     | 55  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07481   |        | XA509     | 56  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07482   |        | XA509     | 57  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 02978   |        | XA509     | 58  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07483   |        | XA509     | 59  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07484   |        | XA509     | 60  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07485   |        | XA509     | 61  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07486   |        | XA509     | 62  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07487   |        | XA509     | 63  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07488   |        | XA509     | 64  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07489   |        | XA509     | 65  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07490   |        | XA509     | 66  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 02979   |        | XA509     | 67  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07491   |        | XA509     | 68  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07492   |        | XA509     | 69  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07493   |        | XA509     | 70  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07494   |        | XA509     | 71  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07495   |        | XA509     | 72  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07496   |        | XA509     | 73  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07497   |        | XA509     | 74  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07498   |        | XA509     | 75  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07499   |        | XA509     | 76  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07500   |        | XA509     | 77  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07501   |        | XA509     | 78  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07502   |        | XA509     | 79  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07503   |        | XA509     | 80  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 07504   |        | XA510     | 01  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 02980   |        | XA510     | 02  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 01B         |           |                    |        |
| 14274   |        | XA510     | 03  |     |        |           |     |     |             |      |       |       | TMRUCD4 | 02     | TMRUCD4  | 00   | 1      | ACF              | A3    |                     | 02A         | IOU RESET | A01                |        |
| 07505   |        | XA510     | 04  |     |        |           |     |     |             |      |       |       | SPP     | 01     |          |      |        |                  |       |                     |             |           |                    |        |
| 06277   |        | XA510     | 05  |     |        | XA318     | 78  |     |             | 16B  | 9     |       | SPI300  | 05     | TMRUCD4  | 01   | 2      | ACF              | A3    |                     | 04B         |           |                    |        |
| 00236   |        | XA510     | 06  |     |        | XA510     | 74  |     |             | 16B  | 9     |       | +5AXIC  | 16     |          |      |        |                  |       |                     |             |           | B06                |        |
| 14180   |        | XA510     | 07  |     |        | XA510     | 08  |     |             | 16B  | 9     |       | TMRRAD1 | 04     | TMRUAD4  | 01   | 1      | ACF              | A1    |                     | 03A         |           |                    |        |
| 14181   |        | XA510     | 08  |     |        | XA318     | 73  |     |             | 16B  | 9     |       | TMRRAD1 | 05     | TMRUCD4  | 01   | 1      | ACF              | A3    |                     | 05B         |           |                    |        |
| CONNECTOR (XA510) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |             |      |       |       |         |        |          |      |        |                  |       |                     |             |           |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA510  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 365

| RECORD NUMBER | FROM   |           |                                 |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|----|-------------|------|-------|-------|---------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SH | PREFIX | CONNECTOR | PIN | SH | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |      |                  |       |                     |                    |                    |        |
| 06276         |        | XA510     | 09                              |    | XA510  | 05        |     |    |             | 16B  | 9     |       | SPI300  | 04     | TMRUAD4  | 01   | 2    | ACF              | A1    |                     | 04A                |                    |        |
| 14260         |        | XA510     | 10                              |    | XA318  | 55        |     |    |             | 16B  | 9     |       | TMRUBD4 | 02     | TMRUBD4  | 00   | 1    | ACF              | A2    |                     | 06B                | IOU RESET          |        |
| 14220         |        | XA510     | 11                              |    | XA318  | 53        |     |    |             | 16B  | 9     |       | TMRUAD4 | 02     | TMRUAD4  | 00   | 1    | ACF              | A1    |                     | 05A                | IOU RESET          |        |
| 00665         |        | XA510     | 12                              |    |        |           |     |    |             |      |       |       | +5V     | 01     |          |      |      | ACF              |       |                     | 21B                |                    |        |
| 19564         |        | XA510     | 13                              |    |        |           |     |    |             |      |       |       | XICSS0  | 04     | XI00DGX  | 01   | 1    | ACF              | B1    |                     | 06A                |                    |        |
| 20799         |        | XA510     | 13                              |    |        |           |     |    |             |      |       |       | XICSS0  | 01     | XI02DGX  | 01   | 1    | ACF              | D1    |                     | 06A                |                    |        |
| 20800         |        | XA510     | 13                              |    |        |           |     |    |             |      |       |       | XICSS0  | 01     | XI01DGX  | 01   | 1    | ACF              | C1    |                     | 06A                |                    |        |
| 20801         |        | XA510     | 13                              |    |        |           |     |    |             |      |       |       | XICSS0  | 01     | XI03DGX  | 01   | 1    | ACF              | E1    |                     | 06A                |                    |        |
| 07506         |        | XA510     | 14                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 06275         |        | XA510     | 15                              |    | XA510  | 09        |     |    |             | 16B  | 9     |       | SPI300  | 03     | TMRUBD4  | 01   | 2    | ACF              | A2    |                     | 07B                |                    |        |
| 02981         |        | XA510     | 16                              |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |      | ACF              |       |                     | 20B                |                    |        |
| 20198         |        | XA510     | 17                              |    |        |           |     |    |             |      |       |       | YMMICB  | 10     | XI00DGX  | 01   | 2    | ACF              | B1    |                     | 07A                |                    |        |
| 20814         |        | XA510     | 17                              |    |        |           |     |    |             |      |       |       | YMMICB  | 01     | XI03DGX  | 01   | 2    | ACF              | E1    |                     | 07A                |                    |        |
| 20815         |        | XA510     | 17                              |    |        |           |     |    |             |      |       |       | YMMICB  | 01     | XI01DGX  | 01   | 2    | ACF              | C1    |                     | 07A                |                    |        |
| 20816         |        | XA510     | 17                              |    |        |           |     |    |             |      |       |       | YMMICB  | 01     | XI02DGX  | 01   | 2    | ACF              | D1    |                     | 07A                |                    |        |
| 07507         |        | XA510     | 18                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 14179         |        | XA510     | 19                              |    | XA510  | 07        |     |    |             | 16B  | 9     |       | TMRRAD1 | 03     | TMRUBD4  | 01   | 1    | ACF              | A2    |                     | 08B                |                    |        |
| 07508         |        | XA510     | 20                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 07509         |        | XA510     | 21                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 07510         |        | XA510     | 22                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 19848         |        | XA510     | 23                              |    | XA510  | 27        |     |    |             | 16B  | 9     |       | XI01DGX | 02     | XI01DGX  | 00   | 1    | ACF              | C1    |                     |                    |                    |        |
| 07511         |        | XA510     | 24                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 19850         |        | XA510     | 25                              |    | XA503  | 05        |     |    |             | 16B  | 9     |       | XI01DHX | 01     | XI01DHX  | 00   | 1    | ACF              | C2    |                     |                    |                    |        |
| 07512         |        | XA510     | 26                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 19849         |        | XA510     | 27                              |    |        |           |     |    |             |      |       |       | XI01DGX | 03     |          |      |      | ACF              | RC    |                     |                    |                    |        |
| 00666         |        | XA510     | 28                              |    |        |           |     |    |             |      |       |       | +5V     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 19842         |        | XA510     | 29                              |    | XA503  | 03        |     |    |             | 16B  | 9     |       | XI00DHX | 01     | XI00DHX  | 00   | 1    | ACF              | B2    |                     |                    |                    |        |
| 07513         |        | XA510     | 30                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 19840         |        | XA510     | 31                              | 3  | XA503  | 04        | 3   |    |             | 16B  | 9     |       | XI00DGX | 02     | XI00DGX  | 00   | 1    | ACF              | B1    |                     |                    |                    |        |
| 02982         |        | XA510     | 32                              |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |      | ACF              |       |                     | 40A                |                    |        |
| 19839         |        | XA510     | 33                              |    | XA510  | 31        |     |    |             | 16B  | 9     |       | XI00DGX | 01     |          |      |      | ACF              | RB    |                     |                    |                    |        |
| 07514         |        | XA510     | 34                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 07515         |        | XA510     | 35                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 07516         |        | XA510     | 36                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 11016         |        | XA510     | 37                              |    | XA407  | 47        |     |    |             | 16B  | 9     |       | TDL2A0  | 08     | XI02DHX  | 01   | 1    | ACF              | D2    |                     | 18A                |                    |        |
| 07517         |        | XA510     | 38                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 10998         |        | XA510     | 39                              |    | XA520  | 13        |     |    |             | 16B  | 9     |       | TDL1A0  | 02     | XI01DHX  | 01   | 1    | ACF              | C2    |                     | 20A                |                    |        |
| 07518         |        | XA510     | 40                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 10986         |        | XA510     | 41                              |    | XA520  | 11        |     |    |             | 16B  | 9     |       | TDL0A0  | 02     | XI00DHX  | 01   | 1    | ACF              | B2    |                     | 22A                |                    |        |
| 07519         |        | XA510     | 42                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 11025         |        | XA510     | 43                              |    | XA520  | 04        |     |    |             | 16B  | 9     |       | TDL3A0  | 03     | XI03DHX  | 01   | 1    | ACF              | E2    |                     | 23A                |                    |        |
| 02983         |        | XA510     | 44                              |    |        |           |     |    |             |      |       |       | GND     | 01     |          |      |      | ACF              |       |                     | 40B                |                    |        |
| 00222         |        | XA510     | 45                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     | 08A                |                    |        |
| 07520         |        | XA510     | 46                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 07521         |        | XA510     | 47                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 07522         |        | XA510     | 48                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 19866         |        | XA510     | 49                              |    | XA503  | 09        |     |    |             | 16B  | 9     |       | XI03DHX | 01     | XI03DHX  | 00   | 1    | ACF              | E2    |                     |                    |                    |        |
| 07523         |        | XA510     | 50                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| 19864         |        | XA510     | 51                              | 3  | XA503  | 10        | 3   |    |             | 16B  | 9     |       | XI03DGX | 02     | XI03DGX  | 00   | 1    | ACF              | E1    |                     |                    |                    |        |
| 07524         |        | XA510     | 52                              |    |        |           |     |    |             |      |       |       | SPP     | 01     |          |      |      | ACF              |       |                     |                    |                    |        |
| CONNECTOR     |        | XA510     | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |    |             |      |       |       |         |        |          |      |      |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA510  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 366

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|---------------|--------|-----------|---------------------------------|---------|--------|-----------|-----|---------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE NO | PREFIX | CONNECTOR | PIN | WIRE NO | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 19856         |        | XA510     | 53                              | 3       |        | XA503     | 08  | 3       |             | 16B  | 9     |       | XI020GX | 02     |          |      | ACF    | RD               |       |                     |                    |                    |        |
| 07525         |        | XA510     | 54                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 19863         |        | XA510     | 55                              |         |        | XA510     | 51  |         |             | 16B  | 9     |       | XI030GX | 01     |          |      | ACF    | RE               |       |                     |                    |                    |        |
| 07526         |        | XA510     | 56                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 19858         |        | XA510     | 57                              |         |        | XA503     | 07  |         |             | 16B  | 9     |       | XI020HX | 01     | XI020HX  | 00   | 1      | ACF              | D2    |                     |                    |                    |        |
| 02984         |        | XA510     | 58                              |         |        |           |     |         |             |      |       |       | GND     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 19855         |        | XA510     | 59                              |         |        | XA510     | 53  |         |             | 16B  | 9     |       | XI020GX | 01     | XI020GX  | 00   | 1      | ACF              | D1    |                     |                    |                    |        |
| 07527         |        | XA510     | 60                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07528         |        | XA510     | 61                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07529         |        | XA510     | 62                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07530         |        | XA510     | 63                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 06086         |        | XA510     | 64                              |         |        | XA514     | 64  |         |             | 16B  | 9     |       | SPI040  | 05     | XI01CTX  | 01   | 1      | ACF              | C3    |                     | 34A                |                    |        |
| 19846         |        | XA510     | 65                              |         |        |           |     |         |             |      |       |       | XI01CTX | 03     | XI01CTX  | 00   | 1      | ACF              | C3    |                     | 32A                |                    |        |
| 06085         |        | XA510     | 66                              |         |        | XA510     | 64  |         |             | 16B  | 9     |       | SPI040  | 04     | XI00CTX  | 01   | 1      | ACF              | B3    |                     | 34B                |                    |        |
| 02985         |        | XA510     | 67                              |         |        |           |     |         |             |      |       |       | GND     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 06084         |        | XA510     | 68                              |         |        | XA510     | 66  |         |             | 16B  | 9     |       | SPI040  | 03     | XI03CTX  | 01   | 1      | ACF              | E3    |                     | 36A                |                    |        |
| 19838         |        | XA510     | 69                              |         |        |           |     |         |             |      |       |       | XI00CTX | 03     | XI00CTX  | 00   | 1      | ACF              | B3    |                     | 35B                |                    |        |
| 07531         |        | XA510     | 70                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 06082         |        | XA510     | 71                              |         |        | XA511     | 71  |         |             | 16B  | 9     |       | SPI040  | 01     | XI02CTX  | 01   | 1      | ACF              | U3    |                     | 36B                |                    |        |
| 19862         |        | XA510     | 72                              |         |        |           |     |         |             |      |       |       | XI03CTX | 03     | XI03CTX  | 00   | 1      | ACF              | E3    |                     | 38A                |                    |        |
| 19854         |        | XA510     | 73                              |         |        |           |     |         |             |      |       |       | XI02CTX | 03     | XI02CTX  | 00   | 1      | ACF              | D3    |                     | 38B                |                    |        |
| 00235         |        | XA510     | 74                              |         |        | XA511     | 74  |         |             | 16B  | 9     |       | +5AXIC  | 17     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07532         |        | XA510     | 75                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07533         |        | XA510     | 76                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07534         |        | XA510     | 77                              |         |        |           |     |         |             |      |       |       | DNW     | 01     |          |      | ACF    |                  |       |                     | KEYWAY             | C04                |        |
| 07535         |        | XA510     | 78                              |         |        |           |     |         |             |      |       |       | DNW     | 01     |          |      | ACF    |                  |       |                     | KEYWAY             | C04                |        |
| 07536         |        | XA510     | 79                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07537         |        | XA510     | 80                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07538         |        | XA511     | 01                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 02986         |        | XA511     | 02                              |         |        |           |     |         |             |      |       |       | GND     | 01     |          |      | ACF    |                  |       |                     | 01B                |                    |        |
| 08017         |        | XA511     | 03                              |         |        |           |     |         |             |      |       |       | SPO     | 01     |          | 00   | 1      | ACF              | A3    |                     | 02A                |                    |        |
| 07539         |        | XA511     | 04                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 06105         |        | XA511     | 05                              |         |        | XA512     | 09  |         |             | 16B  | 9     |       | SPI040  | 24     |          |      | ACF    | A3               |       |                     | 04B                |                    |        |
| 00237         |        | XA511     | 06                              |         |        | XA510     | 06  |         |             | 16B  | 9     |       | +5AXIC  | 15     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 06076         |        | XA511     | 07                              |         |        |           |     |         |             |      |       |       | JMTSBD1 | 02     | JMTSAD4  | 01   | 1      | ACF              | A1    |                     | 03A                | B05                |        |
| 06077         |        | XA511     | 08                              |         |        | XA512     | 19  |         |             | 16B  | 9     |       | SPI039  | 29     |          |      | ACF    | A3               |       |                     | 05B                |                    |        |
| 06104         |        | XA511     | 09                              |         |        | XA410     | 35  |         |             | 16B  | 9     |       | SPI300  | 00     | JMTSAD4  | 01   | 2      | ACF              | A1    |                     | 04A                | C13                |        |
| 14282         |        | XA511     | 10                              |         |        |           |     |         |             |      |       |       | TMRUDD4 | 03     | TMRUDD4  | 00   | 1      | ACF              | A2    |                     | 06B                |                    |        |
| 08018         |        | XA511     | 11                              |         |        |           |     |         |             |      |       |       | JMTSAD4 | 04     | JMTSAD4  | 00   | 1      | ACF              | A1    |                     | 05A                |                    |        |
| 00667         |        | XA511     | 12                              |         |        |           |     |         |             |      |       |       | +5V     | 01     |          |      | ACF    |                  |       |                     | 21B                |                    |        |
| 19563         |        | XA511     | 13                              |         |        | XA510     | 13  |         |             | 16B  | 9     |       | XICSS0  | 03     | XI040GX  | 01   | 1      | ACF              | B1    |                     | 06A                |                    |        |
| 20802         |        | XA511     | 13                              |         |        |           |     |         |             |      |       | M     | XICSS0  | 01     | XI070GX  | 01   | 1      | ACF              | E1    |                     | 06A                |                    |        |
| 20803         |        | XA511     | 13                              |         |        |           |     |         |             |      |       | M     | XICSS0  | 01     | XI060GX  | 01   | 1      | ACF              | D1    |                     | 06A                |                    |        |
| 20804         |        | XA511     | 13                              |         |        |           |     |         |             |      |       | M     | XICSS0  | 01     | XI050GX  | 01   | 1      | ACF              | C1    |                     | 06A                |                    |        |
| 07540         |        | XA511     | 14                              |         |        |           |     |         |             |      |       |       | SPP     | 01     |          |      | ACF    |                  |       |                     |                    |                    |        |
| 06274         |        | XA511     | 15                              |         |        | XA510     | 15  |         |             | 16B  | 9     |       | SPI300  | 02     | TMRUDD4  | 01   | 2      | ACF              | A2    |                     | 07B                |                    |        |
| 02987         |        | XA511     | 16                              |         |        |           |     |         |             |      |       |       | GND     | 01     |          |      | ACF    |                  |       |                     | 20B                |                    |        |
| 20197         |        | XA511     | 17                              |         |        | XA510     | 17  |         |             | 16B  | 9     |       | YMMICB  | 09     | XI040GX  | 01   | 2      | ACF              | B1    |                     | 07A                |                    |        |
| CONNECTOR     |        | XA511     | CONTINUED ON THE NEXT PAGE **** |         |        |           |     |         |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA511  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 367

| RECORD NUMBER                                     | FROM   |           |     | TO  |       |       | WIRE  |       |       |       | SPEC INST | MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | SHAM | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|-------|-------|-------|-------|-------|-------|-----------|------|---------|--------|----------|------|--------|------------------|------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | PIN   | SH TO | SH TO | SH TO | SH TO | SH TO |           |      |         |        |          |      |        |                  |      |                     |                    |                    |        |
| 20817   |        | XA511     | 17  |     |       |       |       |       |       |       |           | M    | YMMICB  | 01     | XI06DGX  | 01   | 2      | ACF              | 01   |                     |                    | 07A                |        |
| 20818   |        | XA511     | 17  |     |       |       |       |       |       |       |           | M    | YMMICB  | 01     | XI07DGX  | 01   | 2      | ACF              | E1   |                     |                    | 07A                |        |
| 20819   |        | XA511     | 17  |     |       |       |       |       |       |       |           | M    | YMMICB  | 01     | XI05DGX  | 01   | 2      | ACF              | C1   |                     |                    | 07A                |        |
| 07541   |        | XA511     | 18  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 14178   |        | XA511     | 19  |     | XA510 | 19    |       |       | 16B   | 9     |           |      | TMRRADI | 02     | TMRUDD4  | 01   | 1      | ACF              | A2   |                     |                    | 08B                |        |
| 07542   |        | XA511     | 20  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 07543   |        | XA511     | 21  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 07544   |        | XA511     | 22  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19880   |        | XA511     | 23  | 3   | XA503 | 14    | 3     |       | 16B   | 9     |           |      | XI05DGX | 02     | XI05DGX  | 00   | 1      | ACF              | C1   |                     |                    |                    |        |
| 07545   |        | XA511     | 24  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19882   |        | XA511     | 25  |     | XA503 | 13    |       |       | 16B   | 9     |           |      | XI05DHX | 01     | XI05DHX  | 00   | 1      | ACF              | C2   |                     |                    |                    |        |
| 07546   |        | XA511     | 26  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19879   |        | XA511     | 27  |     | XA511 | 23    |       |       | 16B   | 9     |           |      | XI05DGX | 01     |          |      |        | ACF              | RC   |                     |                    |                    |        |
| 00668   |        | XA511     | 28  |     |       |       |       |       |       |       |           |      | +5V     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19874   |        | XA511     | 29  |     | XA503 | 11    |       |       | 16B   | 9     |           |      | XI04DHX | 01     | XI04DHX  | 00   | 1      | ACF              | B2   |                     |                    |                    |        |
| 07547   |        | XA511     | 30  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19872   |        | XA511     | 31  | 3   | XA503 | 12    | 3     |       | 16B   | 9     |           |      | XI04DGX | 02     | XI04DGX  | 00   | 1      | ACF              | B1   |                     |                    |                    |        |
| 02986   |        | XA511     | 32  |     |       |       |       |       |       |       |           |      | GND     | 01     |          |      |        | ACF              |      |                     |                    | 40A                |        |
| 19871   |        | XA511     | 33  |     | XA511 | 31    |       |       | 16B   | 9     |           |      | XI04DGX | 01     |          |      |        | ACF              | RB   |                     |                    |                    |        |
| 07548   |        | XA511     | 34  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 07549   |        | XA511     | 35  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 07550   |        | XA511     | 36  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 11063   |        | XA511     | 37  |     | XA520 | 38    |       |       | 16B   | 9     |           |      | TDL6A0  | 02     | XI06DHX  | 01   | 1      | ACF              | D2   |                     |                    | 18A                |        |
| 07551   |        | XA511     | 38  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 11051   |        | XA511     | 39  |     | XA520 | 33    |       |       | 16B   | 9     |           |      | TDL5A0  | 03     | XI05DHX  | 01   | 1      | ACF              | C2   |                     |                    | 20A                |        |
| 07552   |        | XA511     | 40  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 11038   |        | XA511     | 41  |     | XA520 | 31    |       |       | 16B   | 9     |           |      | TDL4A0  | 03     | XI04DHX  | 01   | 1      | ACF              | B2   |                     |                    | 22A                |        |
| 07553   |        | XA511     | 42  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 11076   |        | XA511     | 43  |     | XA520 | 34    |       |       | 16B   | 9     |           |      | TDL7A0  | 03     | XI07DHX  | 01   | 1      | ACF              | E2   |                     |                    | 23A                |        |
| 02989   |        | XA511     | 44  |     |       |       |       |       |       |       |           |      | GND     | 01     |          |      |        | ACF              |      |                     |                    | 40B                |        |
| 00223   |        | XA511     | 45  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    | 08A                |        |
| 07554   |        | XA511     | 46  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 07555   |        | XA511     | 47  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 07556   |        | XA511     | 48  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19898   |        | XA511     | 49  |     | XA503 | 17    |       |       | 16B   | 9     |           |      | XI07DHX | 01     | XI07DHX  | 00   | 1      | ACF              | E2   |                     |                    |                    |        |
| 07557   |        | XA511     | 50  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19896   |        | XA511     | 51  | 3   | XA503 | 18    | 3     |       | 16B   | 9     |           |      | XI07DGX | 02     | XI07DGX  | 00   | 1      | ACF              | E1   |                     |                    |                    |        |
| 07558   |        | XA511     | 52  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19888   |        | XA511     | 53  | 3   | XA503 | 16    | 3     |       | 16B   | 9     |           |      | XI06DGX | 02     |          |      |        | ACF              | RD   |                     |                    |                    |        |
| 07559   |        | XA511     | 54  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19895   |        | XA511     | 55  |     | XA511 | 51    |       |       | 16B   | 9     |           |      | XI07DGX | 01     |          |      |        | ACF              | RE   |                     |                    |                    |        |
| 07560   |        | XA511     | 56  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19890   |        | XA511     | 57  |     | XA503 | 15    |       |       | 16B   | 9     |           |      | XI06DHX | 01     | XI06DHX  | 00   | 1      | ACF              | D2   |                     |                    |                    |        |
| 02990   |        | XA511     | 58  |     |       |       |       |       |       |       |           |      | GND     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 19887   |        | XA511     | 59  |     | XA511 | 53    |       |       | 16B   | 9     |           |      | XI06DGX | 01     | XI06DGX  | 00   | 1      | ACF              | D1   |                     |                    |                    |        |
| 07561   |        | XA511     | 60  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 07562   |        | XA511     | 61  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 07563   |        | XA511     | 62  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 07564   |        | XA511     | 63  |     |       |       |       |       |       |       |           |      | SPP     | 01     |          |      |        | ACF              |      |                     |                    |                    |        |
| 06094   |        | XA511     | 64  |     | XA512 | 64    |       |       | 16B   | 9     |           |      | SPI040  | 13     | XI05CTX  | 01   | 1      | ACF              | C3   |                     |                    | 34A                |        |
| CONNECTOR (XA511) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |       |       |       |       |       |       |           |      |         |        |          |      |        |                  |      |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA511  
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| RECORD NUMBER                                   | FROM   |           |     | TO | WIRE  |       |             |      | SIGNAL  | SEQ NO | EQUATION | TERM | FACTORY | CKT OR CHIB TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|-------|-------|-------------|------|---------|--------|----------|------|---------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |    | SH FT | SH FT | MULTI GROUP | CODE |         |        |          |      |         |                  |       |                     |                    |                    |        |
| 19878   |        | XA511     | 65  |    |       |       |             |      | XI05CTX | 03     | XI05CTX  | 00   | 1       | ACF              | C3    |                     | 32A                |                    |        |
| 06093   |        | XA511     | 66  |    | XA511 | 64    |             |      | SPI040  | 12     | XI04CTX  | 01   | 1       | ACF              | B3    |                     | 34B                |                    |        |
| 02991   |        | XA511     | 67  |    |       |       |             |      | GND     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 06092   |        | XA511     | 68  |    | XA511 | 66    |             |      | SPI040  | 11     | XI07CTX  | 01   | 1       | ACF              | E3    |                     | 36A                |                    |        |
| 19870   |        | XA511     | 69  |    |       |       |             |      | XI04CTX | 03     | XI04CTX  | 00   | 1       | ACF              | B3    |                     | 39B                |                    |        |
| 07565   |        | XA511     | 70  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 06083   |        | XA511     | 71  |    | XA510 | 68    |             |      | SPI040  | 02     | XI06CTX  | 01   | 1       | ACF              | D3    |                     | 36B                |                    |        |
| 19894   |        | XA511     | 72  |    |       |       |             |      | XI07CTX | 03     | XI07CTX  | 00   | 1       | ACF              | E3    |                     | 38A                |                    |        |
| 19886   |        | XA511     | 73  |    |       |       |             |      | XI06CTX | 03     | XI06CTX  | 00   | 1       | ACF              | D3    |                     | 38B                |                    |        |
| 00234   |        | XA511     | 74  |    | XA512 | 74    |             |      | +5AXIC  | 18     |          |      |         | ACF              |       |                     |                    |                    |        |
| 07566   |        | XA511     | 75  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 07567   |        | XA511     | 76  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 07568   |        | XA511     | 77  |    |       |       |             |      | DNW     | 01     |          |      |         | ACF              |       |                     | KEYWAY             |                    | C04    |
| 07569   |        | XA511     | 78  |    |       |       |             |      | DNW     | 01     |          |      |         | ACF              |       |                     | KEYWAY             |                    | C04    |
| 07570   |        | XA511     | 79  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 07571   |        | XA511     | 80  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 07572   |        | XA512     | 01  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 02992   |        | XA512     | 02  |    |       |       |             |      | GND     | 01     |          |      |         | ACF              |       |                     | 01B                |                    |        |
| 08019   |        | XA512     | 03  |    |       |       |             |      | SPO     | 01     |          | 00   | 1       | ACF              | A3    |                     | 02A                |                    |        |
| 07573   |        | XA512     | 04  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 06107   |        | XA512     | 05  |    | XA513 | 09    |             | 16B  | 9       |        |          | 01   | 1       | ACF              | A3    |                     | 04B                |                    |        |
| 00238   |        | XA512     | 06  |    | XA511 | 06    |             | 16B  | 9       |        |          |      |         | ACF              |       |                     |                    |                    |        |
| 06075   |        | XA512     | 07  |    | XA511 | 08    |             | 16B  | 9       |        |          | 01   | 1       | ACF              | A1    |                     | 03A                |                    | B05    |
| 06074   |        | XA512     | 08  |    | XA512 | 07    |             | 16B  | 9       |        |          | 01   | 2       | ACF              | A3    |                     | 05B                |                    |        |
| 06106   |        | XA512     | 09  |    | XA512 | 05    |             | 16B  | 9       |        |          | 01   | 2       | ACF              | A1    |                     | 04A                |                    |        |
| 08020   |        | XA512     | 10  |    |       |       |             |      | SPO     | 01     |          | 00   | 1       | ACF              | A2    |                     | 06B                |                    |        |
| 08021   |        | XA512     | 11  |    |       |       |             |      | SPO     | 01     |          | 00   | 1       | ACF              | A1    |                     | 05A                |                    |        |
| 00669   |        | XA512     | 12  |    |       |       |             |      | +5V     | 01     |          |      |         | ACF              |       |                     | 21B                |                    |        |
| 19562   |        | XA512     | 13  |    | XA511 | 13    |             | 16B  | 9       |        |          | 01   | 1       | ACF              | B1    |                     | 06A                |                    |        |
| 20805   |        | XA512     | 13  |    |       |       |             |      | XICSS0  | 01     | XIR1DGX  | 01   | 1       | ACF              | D1    |                     | 06A                |                    |        |
| 20806   |        | XA512     | 13  |    |       |       |             |      | XICSS0  | 01     | XIR2DGX  | 01   | 1       | ACF              | E1    |                     | 06A                |                    |        |
| 20807   |        | XA512     | 13  |    |       |       |             |      | XICSS0  | 01     | XIRODGX  | 01   | 1       | ACF              | C1    |                     | 06A                |                    |        |
| 07574   |        | XA512     | 14  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 06103   |        | XA512     | 15  |    | XA511 | 05    |             | 16B  | 9       |        |          | 01   | 2       | ACF              | A2    |                     | 07B                |                    | B05    |
| 02993   |        | XA512     | 16  |    |       |       |             |      | GND     | 01     |          |      |         | ACF              |       |                     | 20B                |                    |        |
| 20196   |        | XA512     | 17  |    | XA511 | 17    |             | 16B  | 9       |        |          | 01   | 2       | ACF              | B1    |                     | 07A                |                    |        |
| 20820   |        | XA512     | 17  |    |       |       |             |      | YMMICB  | 08     | XI0PDGX  | 01   | 2       | ACF              |       |                     |                    |                    |        |
| 20821   |        | XA512     | 17  |    |       |       |             |      | YMMICB  | 01     | XIR2DGX  | 01   | 2       | ACF              | E1    |                     | 07A                |                    |        |
| 20821   |        | XA512     | 17  |    |       |       |             |      | YMMICB  | 01     | XIRODGX  | 01   | 2       | ACF              | C1    |                     | 07A                |                    |        |
| 20822   |        | XA512     | 17  |    |       |       |             |      | YMMICB  | 01     | XIR1DGX  | 01   | 2       | ACF              | D1    |                     | 07A                |                    |        |
| 07575   |        | XA512     | 18  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 06078   |        | XA512     | 19  |    | XA513 | 19    |             | 16B  | 9       |        |          | 01   | 1       | ACF              | A2    |                     | 08B                |                    |        |
| 07576   |        | XA512     | 20  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 07577   |        | XA512     | 21  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 07578   |        | XA512     | 22  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 19681   |        | XA512     | 23  |    | XA512 | 27    |             | 16B  | 9       |        |          | 00   | 1       | ACF              | C1    |                     |                    |                    |        |
| 07579   |        | XA512     | 24  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| 19683   |        | XA512     | 25  |    | XA503 | 19    |             | 16B  | 9       |        |          | 00   | 1       | ACF              | C2    |                     |                    |                    |        |
| 07580   |        | XA512     | 26  |    |       |       |             |      | SPP     | 01     |          |      |         | ACF              |       |                     |                    |                    |        |
| CONNECTOR XA512 CONTINUED ON THE NEXT PAGE **** |        |           |     |    |       |       |             |      |         |        |          |      |         |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA512  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 369

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO  | EQUATION | TERM    | FACTOR | CKT OF CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCHOR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|---------|----------|---------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |         |          |         |        |                  |       |                     |                    |                    |        |
| 19682   |        | XA512     | 27  |        |           |     |      |             |      |       |        | XIRODGX | 03       |         |        |                  |       |                     |                    |                    |        |
| 00670   |        | XA512     | 28  |        |           |     |      |             |      |       |        | +5V     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19834   |        | XA512     | 29  |        | XA503     | 01  |      |             | 16B  | 9     |        | XIOPDHX | 01       | XIOPDHX | 00     | 1                | ACF   | B2                  |                    |                    |        |
| 07581   |        | XA512     | 30  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19832   |        | XA512     | 31  |        | XA512     | 33  |      |             | 16B  | 9     |        | XIOPDGX | 02       | XIOPDGX | 00     | 1                | ACF   | B1                  |                    |                    |        |
| 02994   |        | XA512     | 32  |        |           |     |      |             |      |       |        | GND     | 01       |         |        |                  |       |                     |                    | 40A                |        |
| 19833   |        | XA512     | 33  |        |           |     |      |             |      |       |        | XIOPDGX | 03       |         |        |                  |       |                     |                    |                    |        |
| 07582   |        | XA512     | 34  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 07583   |        | XA512     | 35  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 07584   |        | XA512     | 36  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19577   |        | XA512     | 37  |        | XA513     | 37  |      |             | 16B  | 9     |        | XIGNDA  | 03       | XIR1DHX | 01     | 1                | ACF   | D2                  |                    |                    | 18A    |
| 07585   |        | XA512     | 38  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19576   |        | XA512     | 39  |        | XA512     | 37  |      |             | 16B  | 9     |        | XIGNDA  | 02       | XIRODHX | 01     | 1                | ACF   | C2                  |                    |                    | 20A    |
| 07586   |        | XA512     | 40  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 10979   |        | XA512     | 41  |        | XA520     | 49  |      |             | 16B  | 9     |        | TDLPAJ  | 03       | XIOPDHX | 01     | 1                | ACF   | B2                  |                    |                    | 22A    |
| 07587   |        | XA512     | 42  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19575   |        | XA512     | 43  |        | XA512     | 39  |      |             | 16B  | 9     |        | XIGNDA  | 01       | XIR2DHX | 01     | 1                | ACF   | E2                  |                    |                    | 23A    |
| 02995   |        | XA512     | 44  |        |           |     |      |             |      |       |        | GND     | 01       |         |        |                  |       |                     |                    |                    | 40B    |
| 00224   |        | XA512     | 45  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    | 08A    |
| 07588   |        | XA512     | 46  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 07589   |        | XA512     | 47  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 07590   |        | XA512     | 48  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19721   |        | XA512     | 49  |        | XA503     | 23  |      |             | 16B  | 9     |        | XIR2DHX | 01       | XIR2DHX | 00     | 1                | ACF   | E2                  |                    |                    |        |
| 07591   |        | XA512     | 50  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19719   |        | XA512     | 51  | 3      | XA503     | 24  | 3    |             | 16B  | 9     |        | XIR2DGX | 02       | XIR2DGX | 00     | 1                | ACF   | E1                  |                    |                    |        |
| 07592   |        | XA512     | 52  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19700   |        | XA512     | 53  | 3      | XA503     | 22  | 3    |             | 16B  | 9     |        | XIR1DGX | 02       |         |        |                  |       |                     |                    |                    |        |
| 07593   |        | XA512     | 54  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19718   |        | XA512     | 55  |        | XA512     | 51  |      |             | 16B  | 9     |        | XIR2DGX | 01       |         |        |                  |       |                     |                    |                    |        |
| 07594   |        | XA512     | 56  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19702   |        | XA512     | 57  |        | XA503     | 21  |      |             | 16B  | 9     |        | XIR1DHX | 01       | XIR1DHX | 00     | 1                | ACF   | D2                  |                    |                    |        |
| 02996   |        | XA512     | 58  |        |           |     |      |             |      |       |        | GND     | 01       |         |        |                  |       |                     |                    |                    |        |
| 19699   |        | XA512     | 59  |        | XA512     | 53  |      |             | 16B  | 9     |        | XIR1DGX | 01       | XIR1DGX | 00     | 1                | ACF   | D1                  |                    |                    |        |
| 07595   |        | XA512     | 60  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 07596   |        | XA512     | 61  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 07597   |        | XA512     | 62  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 07598   |        | XA512     | 63  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 06095   |        | XA512     | 64  |        | XA512     | 66  |      |             | 16B  | 9     |        | SPI040  | 14       | XIROCTX | 01     | 1                | ACF   | C3                  |                    |                    | 34A    |
| 19679   |        | XA512     | 65  |        |           |     |      |             |      |       |        | XIROCTX | 02       | XIROCTX | 00     | 1                | ACF   | C3                  |                    |                    | 32A    |
| 06096   |        | XA512     | 66  |        | XA512     | 68  |      |             | 16B  | 9     |        | SPI040  | 15       | XIOPCTX | 01     | 1                | ACF   | B3                  |                    |                    | 34B    |
| 02997   |        | XA512     | 67  |        |           |     |      |             |      |       |        | GND     | 01       |         |        |                  |       |                     |                    |                    |        |
| 06097   |        | XA512     | 68  |        | XA513     | 68  |      |             | 16B  | 9     |        | SPI040  | 16       | XIR2CTX | 01     | 1                | ACF   | E3                  |                    |                    | 36A    |
| 19829   |        | XA512     | 69  |        | XA515     | 42  |      |             | 16B  | 9     |        | XIOPCTX | 01       | XIOPCTX | 00     | 1                | ACF   | B3                  |                    |                    | 35B    |
| 07599   |        | XA512     | 70  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 06091   |        | XA512     | 71  |        | XA511     | 68  |      |             | 16B  | 9     |        | SPI040  | 10       | XIR1CTX | 01     | 1                | ACF   | D3                  |                    |                    | 36B    |
| 19717   |        | XA512     | 72  |        |           |     |      |             |      |       |        | XIR2CTX | 02       | XIR2CTX | 00     | 1                | ACF   | E3                  |                    |                    | 38A    |
| 19698   |        | XA512     | 73  |        |           |     |      |             |      |       |        | XIR1CTX | 02       | XIR1CTX | 00     | 1                | ACF   | D3                  |                    |                    | 38B    |
| 00233   |        | XA512     | 74  |        | XA513     | 74  |      |             | 16B  | 9     |        | +5AXIC  | 19       |         |        |                  |       |                     |                    |                    |        |
| 07600   |        | XA512     | 75  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 07601   |        | XA512     | 76  |        |           |     |      |             |      |       |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| CONNECTOR (XA512) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |         |          |         |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA512  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 370

| RECORD NUMBER                                      | FROM   |           |     | TO     |           |     | WIRE |             |      |       |       | SIGNAL  | SQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|--|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|-------|---------|-------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|  | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR | IDENT |         |       |          |      |        |                  |       |                     |                    |                    |        |
| 07602  |        | XA512     | 77  |        |           |     |      |             |      |       |       | DNW     | 01    |          |      | ACF    |                  |       |                     |                    | KEYWAY             | C04    |
| 07603  |        | XA512     | 78  |        |           |     |      |             |      |       |       | DNW     | 01    |          |      | ACF    |                  |       |                     |                    | KEYWAY             | C04    |
| 07604  |        | XA512     | 79  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07605  |        | XA512     | 80  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07606  |        | XA513     | 01  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 02998  |        | XA513     | 02  |        |           |     |      |             |      |       |       | GND     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 08022  |        | XA513     | 03  |        |           |     |      |             |      |       |       | SPO     | 01    | 00       | 1    | ACF    | A3               |       |                     |                    | 01B                |        |
| 07607  |        | XA513     | 04  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    | 02A                |        |
| 06110  |        | XA513     | 05  |        | XA514     | 05  |      |             | 16B  | 9     |       | SPI040  | 29    | 01       | 1    | ACF    | A3               |       |                     |                    | 04B                |        |
| 00239  |        | XA513     | 06  |        | XA512     | 06  |      |             | 16B  | 9     |       | +5AXIC  | 13    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 06072  |        | XA513     | 07  |        | XA513     | 08  |      |             | 16B  | 9     |       | SPI039  | 24    | 01       | 1    | ACF    | A1               |       |                     |                    | 03A                |        |
| 06073  |        | XA513     | 08  |        | XA512     | 08  |      |             | 16B  | 9     |       | SPI039  | 25    | 01       | 2    | ACF    | A3               |       |                     |                    | 05B                |        |
| 06108  |        | XA513     | 09  |        | XA514     | 09  |      |             | 16B  | 9     |       | SPI040  | 27    | 01       | 2    | ACF    | A1               |       |                     |                    | 04A                |        |
| 08023  |        | XA513     | 10  |        |           |     |      |             |      |       |       | SPO     | 01    | 00       | 1    | ACF    | A2               |       |                     |                    | 06B                |        |
| 08024  |        | XA513     | 11  |        |           |     |      |             |      |       |       | SPO     | 01    | 00       | 1    | ACF    | A1               |       |                     |                    | 05A                |        |
| 00671  |        | XA513     | 12  |        |           |     |      |             |      |       |       | +5V     | 01    |          |      | ACF    |                  |       |                     |                    | 21B                |        |
| 06286  |        | XA513     | 13  |        | XA518     | 21  |      |             | 16B  | 9     |       | SPI301  | 07    | XIR30GX  | 01   | 1      | ACF              | B1    |                     |                    | 06A                | C13    |
| 20360  |        | XA513     | 13  |        |           |     |      |             |      |       | M     | SPI301  | 01    | XIR40GX  | 01   | 1      | ACF              | C1    |                     |                    | 06A                | C13    |
| 20361  |        | XA513     | 13  |        |           |     |      |             |      |       | M     | SPI301  | 01    | XIR50GX  | 01   | 1      | ACF              | D1    |                     |                    | 06A                | C13    |
| 20362  |        | XA513     | 13  |        |           |     |      |             |      |       | M     | SPI301  | 01    | XIR60GX  | 01   | 1      | ACF              | E1    |                     |                    | 06A                | C13    |
| 07608  |        | XA513     | 14  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 06102  |        | XA513     | 15  |        | XA512     | 15  |      |             | 16B  | 9     |       | SPI040  | 21    | 01       | 2    | ACF    | A2               |       |                     |                    | 07B                |        |
| 02999  |        | XA513     | 16  |        |           |     |      |             |      |       |       | GND     | 01    |          |      | ACF    |                  |       |                     |                    | 20B                |        |
| 20195  |        | XA513     | 17  |        | XA512     | 17  |      |             | 16B  | 9     |       | YMMICB  | 07    | XIR30GX  | 01   | 2      | ACF              | B1    |                     |                    | 07A                |        |
| 20823  |        | XA513     | 17  |        |           |     |      |             |      |       | M     | YMMICB  | 01    | XIR40GX  | 01   | 2      | ACF              | C1    |                     |                    | 07A                |        |
| 20824  |        | XA513     | 17  |        |           |     |      |             |      |       | M     | YMMICB  | 01    | XIR60GX  | 01   | 2      | ACF              | E1    |                     |                    | 07A                |        |
| 20825  |        | XA513     | 17  |        |           |     |      |             |      |       | M     | YMMICB  | 01    | XIR50GX  | 01   | 2      | ACF              | D1    |                     |                    | 07A                |        |
| 07609  |        | XA513     | 18  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 06079  |        | XA513     | 19  |        | XA121     | 47  |      |             | 16B  | 9     |       | SPI039  | 31    |          | 01   | 1      | ACF              | A2    |                     |                    | 08B                |        |
| 07610  |        | XA513     | 20  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07611  |        | XA513     | 21  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07612  |        | XA513     | 22  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 19756  |        | XA513     | 23  |        | XA513     | 27  |      |             | 16B  | 9     |       | XIR40GX | 01    | XIR40GX  | 00   | 1      | ACF              | C1    |                     |                    |                    |        |
| 07613  |        | XA513     | 24  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 19759  |        | XA513     | 25  |        | XA503     | 27  |      |             | 16B  | 9     |       | XIR40HX | 01    | XIR40HX  | 00   | 1      | ACF              | C2    |                     |                    |                    |        |
| 07614  |        | XA513     | 26  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 19757  |        | XA513     | 27  | 3      | XA503     | 28  | 3    |             | 16B  | 9     |       | XIR40GX | 02    |          |      | ACF    | RC               |       |                     |                    |                    |        |
| 00672  |        | XA513     | 28  |        |           |     |      |             |      |       |       | +5V     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 19740  |        | XA513     | 29  |        | XA503     | 25  |      |             | 16B  | 9     |       | XIR30HX | 01    | XIR30HX  | 00   | 1      | ACF              | B2    |                     |                    |                    |        |
| 07615  |        | XA513     | 30  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 19738  |        | XA513     | 31  | 3      | XA503     | 26  | 3    |             | 16B  | 9     |       | XIR30GX | 02    | XIR30GX  | 00   | 1      | ACF              | B1    |                     |                    |                    |        |
| 03000  |        | XA513     | 32  |        |           |     |      |             |      |       |       | GND     | 01    |          |      | ACF    |                  |       |                     |                    | 40A                |        |
| 19737  |        | XA513     | 33  |        | XA513     | 31  |      |             | 16B  | 9     |       | XIR30GX | 01    |          |      | ACF    | RB               |       |                     |                    |                    |        |
| 07616  |        | XA513     | 34  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07617  |        | XA513     | 35  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 07618  |        | XA513     | 36  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| 19578  |        | XA513     | 37  |        | XA513     | 39  |      |             | 16B  | 9     |       | XIGNDA  | 04    | XIR50HX  | 01   | 1      | ACF              | D2    |                     |                    | 18A                |        |
| 07619  |        | XA513     | 38  |        |           |     |      |             |      |       |       | SPP     | 01    |          |      | ACF    |                  |       |                     |                    |                    |        |
| CONNECTOR (XA513) CONTINUED ON THE NEXT PAGE ***** |        |           |     |        |           |     |      |             |      |       |       |         |       |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA513  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 371

| RECORD NUMBER | FROM   |                                 |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | DIM | LOAD OF POWER PLANE | TEST POINTS AND DR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|---------------------------------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | IN FC | PREFIX | CONNECTOR | PIN | IN FC | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |     |                     |                    |                    |        |
| 19579         | XA513  | 39                              |     |       | XA513  | 43        |     |       | 16B         | 9    |       |       | XIGNDA  | 05     | XIR4DHX  | 01   | 1      | ACF              | C2  |                     | 20A                |                    |        |
| 07620         | XA513  | 40                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 19581         | XA513  | 41                              |     |       | XA514  | 41        |     |       | 16B         | 9    |       |       | XIGNDA  | 07     | XIR3DHX  | 01   | 1      | ACF              | B2  |                     | 22A                |                    |        |
| 07621         | XA513  | 42                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 19580         | XA513  | 43                              |     |       | XA513  | 41        |     |       | 16B         | 9    |       |       | XIGNDA  | 06     | XIR6DHX  | 01   | 1      | ACF              | E2  |                     | 23A                |                    |        |
| 03001         | XA513  | 44                              |     |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | ACF              |     |                     | 40B                |                    |        |
| 00225         | XA513  | 45                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     | 08A                |                    |        |
| 07622         | XA513  | 46                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 07623         | XA513  | 47                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 07624         | XA513  | 48                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 19797         | XA513  | 49                              |     |       | XA503  | 31        |     |       | 16B         | 9    |       |       | XIR6DHX | 01     | XIR6DHX  | 00   | 1      | ACF              | E2  |                     |                    |                    |        |
| 07625         | XA513  | 50                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 19795         | XA513  | 51                              | 3   |       | XA503  | 32        | 3   |       | 16B         | 9    |       |       | XIR6DGX | 02     | XIR6DGX  | 00   | 1      | ACF              | E1  |                     |                    |                    |        |
| 07626         | XA513  | 52                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 19776         | XA513  | 53                              | 3   |       | XA503  | 30        | 3   |       | 16B         | 9    |       |       | XIR5DGX | 02     |          |      |        | ACF              | RD  |                     |                    |                    |        |
| 07627         | XA513  | 54                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 19794         | XA513  | 55                              |     |       | XA513  | 51        |     |       | 16B         | 9    |       |       | XIR6DGX | 01     |          |      |        | ACF              | RE  |                     |                    |                    |        |
| 07628         | XA513  | 56                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 19778         | XA513  | 57                              |     |       | XA503  | 29        |     |       | 16B         | 9    |       |       | XIR5DHX | 01     | XIR5DHX  | 00   | 1      | ACF              | D2  |                     |                    |                    |        |
| 03002         | XA513  | 58                              |     |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 19775         | XA513  | 59                              |     |       | XA513  | 53        |     |       | 16B         | 9    |       |       | XIR5DGX | 01     | XIR5DGX  | 00   | 1      | ACF              | D1  |                     |                    |                    |        |
| 07629         | XA513  | 60                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 07630         | XA513  | 61                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 07631         | XA513  | 62                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 07632         | XA513  | 63                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 06100         | XA513  | 64                              |     |       | XA513  | 15        |     |       | 16B         | 9    |       |       | SPI040  | 19     | XIR4CTX  | 01   | 1      | ACF              | C3  |                     | 34A                |                    |        |
| 19755         | XA513  | 65                              |     |       |        |           |     |       |             |      |       |       | XIR4CTX | 02     | XIR4CTX  | 00   | 1      | ACF              | C3  |                     | 32A                |                    |        |
| 06099         | XA513  | 66                              |     |       | XA513  | 64        |     |       | 16B         | 9    |       |       | SPI040  | 18     | XIR3CTX  | 01   | 1      | ACF              | B3  |                     | 34B                |                    |        |
| 03003         | XA513  | 67                              |     |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 06098         | XA513  | 68                              |     |       | XA513  | 66        |     |       | 16B         | 9    |       |       | SPI040  | 17     | XIR6CTX  | 01   | 1      | ACF              | E3  |                     | 36A                |                    |        |
| 19736         | XA513  | 69                              |     |       |        |           |     |       |             |      |       |       | XIR3CTX | 02     | XIR3CTX  | 00   | 1      | ACF              | B3  |                     | 35B                |                    |        |
| 07633         | XA513  | 70                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 06090         | XA513  | 71                              |     |       | XA512  | 71        |     |       | 16B         | 9    |       |       | SPI040  | 09     | XIR5CTX  | 01   | 1      | ACF              | D3  |                     | 36B                |                    |        |
| 19793         | XA513  | 72                              |     |       |        |           |     |       |             |      |       |       | XIR6CTX | 02     | XIR6CTX  | 00   | 1      | ACF              | E3  |                     | 38A                |                    |        |
| 19774         | XA513  | 73                              |     |       |        |           |     |       |             |      |       |       | XIR5CTX | 02     | XIR5CTX  | 00   | 1      | ACF              | D3  |                     | 38B                |                    |        |
| 00232         | XA513  | 74                              |     |       | XA514  | 74        |     |       | 16B         | 9    |       |       | +5AXIC  | 20     |          |      |        | ACF              |     |                     |                    |                    |        |
| 07634         | XA513  | 75                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 07635         | XA513  | 76                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 07636         | XA513  | 77                              |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        | ACF              |     |                     |                    | KEYWAY             | C04    |
| 07637         | XA513  | 78                              |     |       |        |           |     |       |             |      |       |       | DNW     | 01     |          |      |        | ACF              |     |                     |                    | KEYWAY             | C04    |
| 07638         | XA513  | 79                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 07639         | XA513  | 80                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 07640         | XA514  | 01                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 03004         | XA514  | 02                              |     |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        | ACF              |     |                     | 01B                |                    |        |
| 08025         | XA514  | 03                              |     |       |        |           |     |       |             |      |       |       | SPO     | 01     |          | 09   | 1      | ACF              | A3  |                     | 02A                |                    |        |
| 07641         | XA514  | 04                              |     |       |        |           |     |       |             |      |       |       | SPP     | 01     |          |      |        | ACF              |     |                     |                    |                    |        |
| 06111         | XA514  | 05                              |     |       | XA514  | 15        |     |       | 16B         | 9    |       |       | SPI040  | 30     |          |      |        | ACF              | A3  |                     | 04B                |                    |        |
| 00240         | XA514  | 06                              |     |       | XA513  | 06        |     |       | 16B         | 9    |       |       | +5AXIC  | 12     |          |      |        | ACF              |     |                     |                    |                    |        |
| CONNECTOR     | XA514  | CONTINUED ON THE NEXT PAGE **** |     |       |        |           |     |       |             |      |       |       |         |        |          |      |        |                  |     |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA514  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 372

| RECORD NUMBER                                     | FROM   |           |     | EN FC | TO     |           |     | EN FC | WIRE        |      |       |       | EN FC | SIGNAL | SEQ NO  | EQUATION | TERM    | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINT'S AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|-------|--------|---------|----------|---------|------|------------------|-------|---------------------|---------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |       | PREFIX | CONNECTOR | PIN |       | MULTI GROUP | CODE | COLOR | IDENT |       |        |         |          |         |      |                  |       |                     |                     |                    |        |
| 06071   |        | XA514     | 07  |       |        | XA513     | 07  |       |             |      |       | 16B   | 9     |        | SPI039  | 23       |         | 01   | 1                | ACF   | A1                  |                     | 03A                |        |
| 06115   |        | XA514     | 08  |       |        | XA514     | 07  |       |             |      |       | 16B   | 9     |        | SPI039  | 225      |         | 01   | 2                | ACF   | A3                  |                     | 05B                |        |
| 06109   |        | XA514     | 09  |       |        | XA513     | 05  |       |             |      |       | 16B   | 9     |        | SPI040  | 28       |         | 01   | 2                | ACF   | A1                  |                     | 04A                |        |
| 08026   |        | XA514     | 10  |       |        |           |     |       |             |      |       |       |       |        | SPO     | 01       |         | 00   | 1                | ACF   | A2                  |                     | 06B                |        |
| 08027   |        | XA514     | 11  |       |        |           |     |       |             |      |       |       |       |        | SPO     | 01       |         | 00   | 1                | ACF   | A1                  |                     | 05A                |        |
| 00673   |        | XA514     | 12  |       |        |           |     |       |             |      |       |       |       |        | +5V     | 01       |         |      |                  | ACF   |                     |                     | 21B                |        |
| 19828   |        | XA514     | 13  |       |        |           |     |       |             |      |       |       |       |        | XISTB0  | 05       | XIR7DGX | 01   | 1                | ACF   | B1                  |                     | 06A                |        |
| 20809   |        | XA514     | 13  |       |        |           |     |       |             |      |       |       |       |        | XISTB0  | 01       | XICMDGX | 01   | 1                | ACF   | D1                  |                     | 06A                |        |
| 20810   |        | XA514     | 13  |       |        |           |     |       |             |      |       |       |       |        | XISTB0  | 01       | XIENDGX | 01   | 1                | ACF   | E1                  |                     | 06A                |        |
| 20811   |        | XA514     | 13  |       |        |           |     |       |             |      |       |       |       |        | XISTB0  | 01       | XIINDGX | 01   | 1                | ACF   | C1                  |                     | 06A                |        |
| 07642   |        | XA514     | 14  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 06080   |        | XA514     | 15  |       |        | XA446     | 68  |       |             |      |       | 16B   | 9     |        | SPI040  | 305      |         | 01   | 2                | ACF   | A2                  |                     | 07B                |        |
| 03005   |        | XA514     | 16  |       |        |           |     |       |             |      |       |       |       |        | GND     | 01       |         |      |                  | ACF   |                     |                     | 20B                |        |
| 20194   |        | XA514     | 17  |       |        | XA513     | 17  |       |             |      |       | 16B   | 9     |        | YMMICB  | 06       | XIR7DGX | 01   | 2                | ACF   | B1                  |                     | 07A                |        |
| 20826   |        | XA514     | 17  |       |        |           |     |       |             |      |       |       |       |        | YMMICB  | 01       | XIINDGX | 01   | 2                | ACF   | C1                  |                     | 07A                |        |
| 20827   |        | XA514     | 17  |       |        |           |     |       |             |      |       |       |       |        | YMMICB  | 01       | XICMDGX | 01   | 2                | ACF   | D1                  |                     | 07A                |        |
| 20828   |        | XA514     | 17  |       |        |           |     |       |             |      |       |       |       |        | YMMICB  | 01       | XIENDGX | 01   | 2                | ACF   | E1                  |                     | 07A                |        |
| 07643   |        | XA514     | 18  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 06101   |        | XA514     | 19  |       |        | XA514     | 08  |       |             |      |       | 16B   | 9     |        | SPI039  | 223      |         | 01   | 1                | ACF   | A2                  |                     | 08B                |        |
| 07644   |        | XA514     | 20  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 07645   |        | XA514     | 21  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 07646   |        | XA514     | 22  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 19601   |        | XA514     | 23  |       |        | XA514     | 27  |       |             |      |       | 16B   | 9     |        | XIINDGX | 01       | XIINDGX | 00   | 1                | ACF   | C1                  |                     |                    |        |
| 07647   |        | XA514     | 24  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 19604   |        | XA514     | 25  |       |        | XA503     | 39  |       |             |      |       | 16B   | 9     |        | XIINDHX | 01       | XIINDHX | 00   | 1                | ACF   | C2                  |                     |                    |        |
| 07648   |        | XA514     | 26  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 19602   |        | XA514     | 27  |       |        | XA503     | 40  |       |             |      |       | 16B   | 9     |        | XIINDGX | 02       |         |      |                  | ACF   | RC                  |                     |                    |        |
| 00674   |        | XA514     | 28  |       |        |           |     |       |             |      |       |       |       |        | +5V     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 19814   |        | XA514     | 29  |       |        | XA503     | 33  |       |             |      |       | 16B   | 9     |        | XIR7DHX | 01       | XIR7DHX | 00   | 1                | ACF   | B2                  |                     |                    |        |
| 07649   |        | XA514     | 30  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 19813   |        | XA514     | 31  |       |        |           |     |       |             |      |       |       |       |        | XIR7DGX | 03       | XIR7DGX | 00   | 1                | ACF   | B1                  |                     |                    |        |
| 03006   |        | XA514     | 32  |       |        |           |     |       |             |      |       |       |       |        | GND     | 01       |         |      |                  | ACF   |                     |                     | 40A                |        |
| 19812   |        | XA514     | 33  |       |        | XA514     | 31  |       |             |      |       | 16B   | 9     |        | XIR7DGX | 02       |         |      |                  | ACF   | RB                  |                     |                    |        |
| 07650   |        | XA514     | 34  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 07651   |        | XA514     | 35  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 07652   |        | XA514     | 36  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 19519   |        | XA514     | 37  |       |        | XA517     | 75  |       |             |      |       | 16B   | 9     |        | XICSA0  | 01       | XICMDHX | 01   | 1                | ACF   | D2                  |                     | 18A                |        |
| 07653   |        | XA514     | 38  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 19583   |        | XA514     | 39  |       |        | XA518     | 19  |       |             |      |       | 16B   | 9     |        | XIGNDA  | 09       | XIINDHX | 01   | 1                | ACF   | C2                  |                     | 20A                |        |
| 07654   |        | XA514     | 40  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 19582   |        | XA514     | 41  |       |        | XA514     | 39  |       |             |      |       | 16B   | 9     |        | XIGNDA  | 08       | XIR7DHX | 01   | 1                | ACF   | B2                  |                     | 22A                |        |
| 07655   |        | XA514     | 42  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 19565   |        | XA514     | 43  |       |        | XA517     | 63  |       |             |      |       | 16B   | 9     |        | XIENAO  | 01       | XIENDHX | 01   | 1                | ACF   | E2                  |                     | 23A                |        |
| 03007   |        | XA514     | 44  |       |        |           |     |       |             |      |       |       |       |        | GND     | 01       |         |      |                  | ACF   |                     |                     | 40B                |        |
| 00226   |        | XA514     | 45  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     | 08A                |        |
| 07656   |        | XA514     | 46  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 07657   |        | XA514     | 47  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 07658   |        | XA514     | 48  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| 19573   |        | XA514     | 49  |       |        | XA503     | 35  |       |             |      |       | 16B   | 9     |        | XIENDHX | 01       | XIENDHX | 00   | 1                | ACF   | E2                  |                     |                    |        |
| 07659   |        | XA514     | 50  |       |        |           |     |       |             |      |       |       |       |        | SPP     | 01       |         |      |                  | ACF   |                     |                     |                    |        |
| CONNECTOR (XA514) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |       |        |         |          |         |      |                  |       |                     |                     |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA514  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 373

| RECORD NUMBER  | FROM   |                                 |          |      | TO     |                |          |      | WIRE        |            |        |       | SIGNAL | SEQ NO            | EQUATION  | TERM               | FACTOR   | CKT OR CHIP TYPE | GROUP | LOAD GP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO             |
|----------------|--------|---------------------------------|----------|------|--------|----------------|----------|------|-------------|------------|--------|-------|--------|-------------------|-----------|--------------------|----------|------------------|-------|---------------------|--------------------|--------------------|--------------------|
|                | PREFIX | CONNECTOR                       | PIN      | SHFT | PREFIX | CONNECTOR      | PIN      | SHFT | MULTI GROUP | CODE       | COLOR  | IDENT |        |                   |           |                    |          |                  |       |                     |                    |                    |                    |
| 19571<br>07660 |        | XA514<br>XA514                  | 51<br>52 | 3    |        | XA503          | 36       |      | 3           | 16B        | 9      |       |        | XIENDGX<br>SPP    | 02<br>01  | XIENDGX            | 00       | 1                | ACF   | E1                  |                    |                    |                    |
| 19512<br>07661 |        | XA514<br>XA514                  | 53<br>54 |      |        | XA514          | 59       |      |             | 16B        | 9      |       |        | XICM0GX<br>SPP    | 02<br>01  |                    |          |                  | ACF   | RD                  |                    |                    |                    |
| 19570<br>07662 |        | XA514<br>XA514                  | 55<br>56 |      |        | XA514          | 51       |      |             | 16B        | 9      |       |        | XIENDGX<br>SPP    | 01<br>01  |                    |          |                  | ACF   | RE                  |                    |                    |                    |
| 19514<br>03008 |        | XA514<br>XA514                  | 57<br>58 |      |        | XA503          | 37       |      |             | 16B        | 9      |       |        | XICM0HX<br>GND    | 01<br>01  | XICM0HX            | 00       | 1                | ACF   | D2                  |                    |                    |                    |
| 19513<br>07663 |        | XA514<br>XA514                  | 59<br>60 |      |        |                |          |      |             |            |        |       |        | XICM0GX<br>SPP    | 03<br>01  | XICM0GX            | 00       | 1                | ACF   | D1                  |                    |                    |                    |
| 07664<br>07665 |        | XA514<br>XA514                  | 61<br>62 |      |        |                |          |      |             |            |        |       |        | SPP<br>SPP        | 01<br>01  |                    |          |                  | ACF   |                     |                    |                    |                    |
| 07666<br>06087 |        | XA514<br>XA514                  | 63<br>64 |      |        | XA514          | 68       |      |             | 16B        | 9      |       |        | SPP<br>SPI040     | 01<br>06  |                    |          |                  | ACF   |                     |                    |                    |                    |
| 19599<br>06088 |        | XA514<br>XA514                  | 65<br>66 |      |        | XA515<br>XA514 | 36<br>71 |      |             | 16B<br>16B | 9<br>9 |       |        | XIINCTX<br>SPI040 | 01<br>07  | XIINCTX<br>XIR7CTX | 00<br>01 | 1                | ACF   | C3<br>B3            |                    | 34A<br>32A<br>34B  |                    |
| 03009<br>06155 |        | XA514<br>XA514                  | 67<br>68 |      |        | XA514          | 66       |      |             | 16B        | 9      |       |        | GND<br>SPI040     | 01<br>065 |                    |          |                  | ACF   | E3                  |                    | 36A                |                    |
| 19809<br>07667 |        | XA514<br>XA514                  | 69<br>70 |      |        | XA518          | 47       |      |             | 16B        | 9      |       |        | XIR7CTX<br>SPP    | 01<br>01  | XIR7CTX            | 00       | 1                | ACF   | B3                  |                    | 35B                |                    |
| 06089<br>20808 |        | XA514<br>XA514                  | 71<br>72 |      |        | XA513          | 71       |      |             | 16B        | 9      |       |        | SPI040<br>XIENCTX | 08<br>01  | XICMCTX<br>XIENCTX | 01<br>00 | 1                | ACF   | D3<br>E3            |                    | 36B<br>38A         |                    |
| 20798<br>00231 |        | XA514<br>XA514                  | 73<br>74 |      |        |                |          |      |             |            |        |       | M      | XICMCTX<br>+5AXIC | 01<br>21  | XICMCTX            | 00       | 1                | ACF   | D3                  |                    | 38B                |                    |
| 07668<br>07669 |        | XA514<br>XA514                  | 75<br>76 |      |        |                |          |      |             |            |        |       |        | SPP<br>SPP        | 01<br>01  |                    |          |                  | ACF   |                     |                    |                    |                    |
| 07670<br>07671 |        | XA514<br>XA514                  | 77<br>78 |      |        |                |          |      |             |            |        |       |        | DNW<br>DNW        | 01<br>01  |                    |          |                  | ACF   |                     |                    | KEYWAY<br>KEYWAY   | C05<br>C05         |
| 07672<br>07673 |        | XA514<br>XA514                  | 79<br>80 |      |        |                |          |      |             |            |        |       |        | SPP<br>SPP        | 01<br>01  |                    |          |                  | ACF   |                     |                    |                    |                    |
| 19618<br>03010 |        | XA515<br>XA515                  | 01<br>02 |      |        |                |          |      |             |            |        |       |        | XIII1AA<br>GND    | 02<br>01  | XIII1AA            | 00       | 1                | TQ2   | A2                  |                    | 02B<br>01A         | IOC INPUT DATA LIN |
| 19531<br>19532 |        | XA515<br>XA515                  | 03<br>04 |      |        | XA515<br>XA515 | 04<br>08 |      |             | 16B<br>16B | 9<br>9 |       |        | XICSD0<br>XICSD0  | 07<br>08  | XII2AA<br>XIII1AA  | 01<br>01 | 1                | TQ2   | A3<br>A2            |                    | 02A<br>04A         |                    |
| 19845<br>19614 |        | XA515<br>XA515                  | 05<br>06 |      |        | XA510          | 65       |      |             | 16B        | 9      |       |        | XI01CTX<br>XII0AA | 02<br>02  | XIII1AA<br>XII0AA  | 01<br>00 | 2                | TQ2   | A2<br>A1            |                    | 03B<br>05A         | IOC INPUT DATA LIN |
| 19853<br>19533 |        | XA515<br>XA515                  | 07<br>08 |      |        | XA510<br>XA515 | 73<br>40 |      |             | 16B<br>16B | 9<br>9 |       |        | XI02CTX<br>XICSD0 | 02<br>09  | XII2AA<br>XII0AA   | 01<br>01 | 2                | TQ2   | A3<br>A1            |                    | 03A<br>06A         | B05                |
| 19622<br>19837 |        | XA515<br>XA515                  | 09<br>10 |      |        | XA510          | 69       |      |             | 16B        | 9      |       |        | XII2AA<br>XI00CTX | 02<br>02  | XII2AA<br>XII0AA   | 00<br>01 | 2                | TQ2   | A3<br>A1            |                    | 04B<br>07A         | IOC INPUT DATA LIN |
| 19530<br>00675 |        | XA515<br>XA515                  | 11<br>12 |      |        | XA515          | 03       |      |             | 16B        | 9      |       |        | XICSD0<br>+5V     | 05<br>01  | XII3AA             | 01       | 1                | TQ2   | A4<br>TQ2           |                    | 05B                |                    |
| 19861<br>19634 |        | XA515<br>XA515                  | 13<br>14 |      |        | XA510          | 72       |      |             | 16B        | 9      |       |        | XI03CTX<br>XII5AA | 02<br>02  | XII3AA<br>XII5AA   | 01<br>00 | 2                | TQ2   | A4<br>B2            |                    | 06B<br>09A         | IOC INPUT DATA LIN |
| 19626<br>03011 |        | XA515<br>XA515                  | 15<br>16 |      |        |                |          |      |             |            |        |       |        | XII3AA<br>GND     | 02<br>01  | XII3AA             | 00       | 1                | TQ2   | A4<br>TQ2           |                    | 07B<br>01B         | IOC INPUT DATA LIN |
| 19529<br>19528 |        | XA515<br>XA515                  | 17<br>18 |      |        | XA515<br>XA515 | 11<br>17 |      |             | 16B<br>16B | 9<br>9 |       |        | XICSD0<br>XICSD0  | 05<br>04  | XII6AA<br>XII5AA   | 01<br>01 | 1                | TQ2   | B3<br>B2            |                    | 08B<br>13A         |                    |
| CONNECTOR      | XA515  | CONTINUED ON THE NEXT PAGE **** |          |      |        |                |          |      |             |            |        |       |        |                   |           |                    |          |                  |       |                     |                    |                    |                    |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA515  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 374

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SPEC. INST. WIRE | SIGNAL  | SEQ NO | EQUATION | TERM. FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PL. LINE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|------------------|---------|--------|----------|--------------|------------------|-------|------------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI-GROUP | CODE | COLOR |                  |         |        |          |              |                  |       |                        |                    |                    |        |
| 19884   |        | XA515     | 19  |        | XA517     | 41  |      |             | 168  | 9     |                  | XI06CTX | 01     | XII6AA   | 01           | 2                | TQ2   | B3                     | 09B                |                    |        |
| 19876   |        | XA515     | 20  |        | XA517     | 35  |      |             | 168  | 9     |                  | XI05CTX | 01     | XII5AA   | 01           | 2                | TQ2   | B2                     | 11A                |                    |        |
| 19638   |        | XA515     | 21  |        |           |     |      |             |      |       |                  | XII6AA  | 02     | XII6AA   | 00           | 1                | TQ2   | B3                     | 10B                | IOC INPUT DATA LIN |        |
| 19630   |        | XA515     | 22  |        |           |     |      |             |      |       |                  | XII4AA  | 02     | XII4AA   | 00           | 1                | TQ2   | B1                     | 12A                | IOC INPUT DATA LIN |        |
| 19526   |        | XA515     | 23  |        | XA515     | 24  |      |             | 168  | 9     |                  | XICSD0  | 02     | XII7AA   | 01           | 1                | TQ2   | B4                     | 11B                |                    |        |
| 19527   |        | XA515     | 24  |        | XA515     | 18  |      |             | 168  | 9     |                  | XICSD0  | 03     | XII4AA   | 01           | 1                | TQ2   | B1                     | 13A                |                    |        |
| 19892   |        | XA515     | 25  |        | XA517     | 47  |      |             | 168  | 9     |                  | XI07CTX | 01     | XII7AA   | 01           | 2                | TQ2   | B4                     | 12B                |                    |        |
| 19869   |        | XA515     | 26  |        | XA511     | 69  |      |             | 168  | 9     |                  | XI04CTX | 02     | XII4AA   | 01           | 2                | TQ2   | B1                     | 14A                |                    |        |
| 19642   |        | XA515     | 27  |        |           |     |      |             |      |       |                  | XII7AA  | 02     | XII7AA   | 00           | 1                | TQ2   | B4                     | 13B                | IOC INPUT DATA LIN |        |
| 00676   |        | XA515     | 28  |        |           |     |      |             |      |       |                  | +5V     | 01     |          |              |                  | TQ2   |                        |                    |                    |        |
| 06116   |        | XA515     | 29  |        | XA515     | 35  |      |             | 168  | 9     |                  | SPI041  | 03     |          | 01           | 1                | TQ2   | C3                     | 14B                |                    |        |
| 19598   |        | XA515     | 30  |        |           |     |      |             |      |       |                  | XIINAA  | 02     | XIINAA   | 00           | 1                | TQ2   | C2                     | 15A                | IOX INDICATOR TO   |        |
| 06149   |        | XA515     | 31  |        | XA515     | 37  |      |             | 168  | 9     |                  | SPI042  | 02     |          | 01           | 2                | TQ2   | C3                     | 15B                |                    |        |
| 03012   |        | XA515     | 32  |        |           |     |      |             |      |       |                  | GND     | 01     |          |              |                  | TQ2   |                        | 20B                |                    |        |
| 08028   |        | XA515     | 33  |        |           |     |      |             |      |       |                  | SPO     | 01     |          | 00           | 1                | TQ2   | C3                     | 16B                |                    |        |
| 19557   |        | XA515     | 34  |        |           |     |      |             |      |       |                  | XICSD0  | 11     | XIINAA   | 01           | 1                | TQ2   | C2                     | 16A                |                    | B05    |
| 06117   |        | XA515     | 35  |        | XA515     | 65  |      |             | 168  | 9     |                  | SPI041  | 04     |          | 01           | 1                | TQ2   | C4                     | 17B                |                    |        |
| 19600   |        | XA515     | 36  |        |           |     |      |             |      |       |                  | XIINCTX | 02     | XIINAA   | 01           | 2                | TQ2   | C2                     | 17A                |                    |        |
| 06150   |        | XA515     | 37  |        | XA517     | 55  |      |             | 168  | 9     |                  | SPI042  | 03     |          | 01           | 2                | TQ2   | C4                     | 18B                |                    |        |
| 19612   |        | XA515     | 38  |        |           |     |      |             |      |       |                  | XIIPAA  | 02     | XIIPAA   | 00           | 1                | TQ2   | C1                     | 18A                | IOC INPUT PARITY   |        |
| 08029   |        | XA515     | 39  |        |           |     |      |             |      |       |                  | SPO     | 01     |          | 00           | 1                | TQ2   | C4                     | 19B                |                    |        |
| 19556   |        | XA515     | 40  |        | XA515     | 34  |      |             | 168  | 9     |                  | XICSD0  | 10     | XIIPAA   | 01           | 1                | TQ2   | C1                     | 19A                |                    | B05    |
| 19555   |        | XA515     | 41  |        | XA518     | 43  |      |             | 168  | 9     |                  | XICSI0  | 08     | XII2BA   | 01           | 1                | TQ2   | 03                     | 22B                |                    |        |
| 19830   |        | XA515     | 42  |        |           |     |      |             |      |       |                  | XIOPCTX | 02     | XIIPAA   | 01           | 2                | TQ2   | C1                     | 20A                |                    | B05    |
| 19729   |        | XA515     | 43  |        | XA516     | 22  |      |             | 168  | 9     |                  | XIR205  | 01     | XII2BA   | 01           | 2                | TQ2   | 03                     | 23B                |                    |        |
| 03013   |        | XA515     | 44  |        |           |     |      |             |      |       |                  | GND     | 01     |          |              |                  | TQ2   |                        | 21B                |                    |        |
| 19623   |        | XA515     | 45  |        | XA424     | 06  |      |             | 168  | 9     |                  | XII2BA  | 01     | XII2BA   | 00           | 1                | TQ2   | 03                     | 24B                | DEV REQ 2 TO IOC   |        |
| 19619   |        | XA515     | 46  |        | XA425     | 07  |      |             | 168  | 9     |                  | XII1BA  | 01     | XII1BA   | 00           | 1                | TQ2   | 02                     | 21A                | DEV REQ 1 TO IOC   |        |
| 19554   |        | XA515     | 47  |        | XA515     | 41  |      |             | 168  | 9     |                  | XICSI0  | 07     | XII3BA   | 01           | 1                | TQ2   | 04                     | 25B                |                    |        |
| 19553   |        | XA515     | 48  |        | XA515     | 47  |      |             | 168  | 9     |                  | XICSI0  | 06     | XII1BA   | 01           | 1                | TQ2   | 02                     | 22A                |                    |        |
| 19748   |        | XA515     | 49  |        | XA516     | 14  |      |             | 168  | 9     |                  | XIR305  | 01     | XII3BA   | 01           | 2                | TQ2   | 04                     | 26B                |                    |        |
| 19710   |        | XA515     | 50  |        | XA516     | 01  |      |             | 168  | 9     |                  | XIR105  | 01     | XII1BA   | 01           | 2                | TQ2   | 02                     | 23A                |                    |        |
| 19627   |        | XA515     | 51  |        | XA424     | 20  |      |             | 168  | 9     |                  | XII3BA  | 01     | XII3BA   | 00           | 1                | TQ2   | 04                     | 27B                | DEV REQ 3 TO IOC   |        |
| 19615   |        | XA515     | 52  |        | XA425     | 13  |      |             | 168  | 9     |                  | XII0BA  | 01     | XII0BA   | 00           | 1                | TQ2   | 01                     | 24A                |                    |        |
| 19551   |        | XA515     | 53  |        | XA515     | 54  |      |             | 168  | 9     |                  | XICSI0  | 04     | XII6BA   | 01           | 1                | TQ2   | E3                     | 28B                |                    |        |
| 19552   |        | XA515     | 54  |        | XA515     | 48  |      |             | 168  | 9     |                  | XICSI0  | 05     | XII0BA   | 01           | 1                | TQ2   | 01                     | 25A                |                    |        |
| 19804   |        | XA515     | 55  |        | XA516     | 52  |      |             | 168  | 9     |                  | XIR605  | 01     | XII6BA   | 01           | 2                | TQ2   | E3                     | 29B                |                    |        |
| 19691   |        | XA515     | 56  |        | XA516     | 06  |      |             | 168  | 9     |                  | XIRJ05  | 01     | XII0BA   | 01           | 2                | TQ2   | 01                     | 26A                |                    |        |
| 19639   |        | XA515     | 57  |        | XA425     | 26  |      |             | 168  | 9     |                  | XII6BA  | 01     | XII6BA   | 00           | 1                | TQ2   | E3                     | 30B                | DEV REQ 6 TO IOC   |        |
| 03014   |        | XA515     | 58  |        |           |     |      |             |      |       |                  | GND     | 01     |          |              |                  | TQ2   |                        | 27A                |                    |        |
| 19550   |        | XA515     | 59  |        | XA515     | 53  |      |             | 168  | 9     |                  | XICSI0  | 03     | XII7BA   | 01           | 1                | TQ2   | E4                     | 31B                |                    |        |
| 19635   |        | XA515     | 60  |        | XA424     | 49  |      |             | 168  | 9     |                  | XII5BA  | 01     | XII5BA   | 00           | 1                | TQ2   | E2                     | 28A                | DEV REQ 5 TO IOC   |        |
| 19821   |        | XA515     | 61  |        | XA516     | 41  |      |             | 168  | 9     |                  | XIR705  | 01     | XII7BA   | 01           | 2                | TQ2   | E4                     | 32B                |                    |        |
| 19549   |        | XA515     | 62  |        | XA515     | 59  |      |             | 168  | 9     |                  | XICSI0  | 02     | XII5BA   | 01           | 1                | TQ2   | E2                     | 29A                |                    |        |
| 19643   |        | XA515     | 63  |        | XA425     | 20  |      |             | 168  | 9     |                  | XII7BA  | 01     | XII7BA   | 00           | 1                | TQ2   | E4                     | 33B                | DEV REQ 7 TO IOC   |        |
| 19789   |        | XA515     | 64  |        |           |     |      |             |      |       |                  | XIR505  | 04     | XII5BA   | 01           | 2                | TQ2   | E2                     | 30A                |                    |        |
| 06118   |        | XA515     | 65  |        | XA515     | 73  |      |             | 168  | 9     |                  | SPI041  | 05     |          | 01           | 1                | TQ2   | F3                     | 34B                |                    |        |
| 19631   |        | XA515     | 66  |        | XA424     | 36  |      |             | 168  | 9     |                  | XII4BA  | 01     | XII4BA   | 00           | 1                | TQ2   | E1                     | 31A                | DEV REQ 4 TO IOC   |        |
| 03015   |        | XA515     | 67  |        |           |     |      |             |      |       |                  | GND     | 01     |          |              |                  | TQ2   |                        | 40A                |                    |        |
| 19548   |        | XA515     | 68  |        | XA515     | 62  |      |             | 168  | 9     |                  | XICSI0  | 01     | XII4BA   | 01           | 1                | TQ2   | E1                     | 32A                |                    |        |
| CONNECTOR (XA515) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |                  |         |        |          |              |                  |       |                        |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA515  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 375

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO | EQUATION | P      | R  | CKT OR CHIP TYPE | DIM | LOAD OF POWER PLANE | TEST POINTS (AND) OF | SIGNAL DESCRIPTION | ECO NO        |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|--------|----------|--------|----|------------------|-----|---------------------|----------------------|--------------------|---------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | AWG  | MULTI GROUP | CODE | COLOR |        |        |          |        |    |                  |     |                     |                      |                    |               |
| 08030   |        | XA515     | 69  |        |           |     |      |             |      |       |        | SPO    | 01       |        |    |                  |     |                     |                      |                    |               |
| 19767   |        | XA515     | 70  |        | XA516     | 38  |      |             | 16B  | 9     |        | XIR40S | 01       | XI14BA | 01 | 2                | TQ2 | F3                  |                      | 35A                |               |
| 06156   |        | XA515     | 71  |        | XA515     | 74  |      |             | 16B  | 9     |        | SPI042 | 09       |        | 01 | 1                | TQ2 | F2                  |                      | 36A                |               |
| 08031   |        | XA515     | 72  |        |           |     |      |             |      |       |        | SPO    | 01       |        |    |                  |     |                     |                      |                    | 34A           |
| 06119   |        | XA515     | 73  |        | XA515     | 79  |      |             | 16B  | 9     |        | SPI041 | 06       |        | 01 | 2                | TQ2 | F2                  |                      | 36B                |               |
| 06157   |        | XA515     | 74  |        | XA515     | 76  |      |             | 16B  | 9     |        | SPI042 | 10       |        | 01 | 2                | TQ2 | F3                  |                      | 35B                |               |
| 08032   |        | XA515     | 75  |        |           |     |      |             |      |       |        | SPO    | 01       |        |    |                  |     |                     |                      |                    | 37B           |
| 06158   |        | XA515     | 76  |        | XA516     | 76  |      |             | 16B  | 9     |        | SPI042 | 11       |        | 01 | 1                | TQ2 | F4                  |                      | 37A                |               |
| 06154   |        | XA515     | 77  |        | XA515     | 71  |      |             | 16B  | 9     |        | SPI042 | 07       |        | 01 | 1                | TQ2 | F1                  |                      | 38B                |               |
| 06121   |        | XA515     | 78  |        | XA516     | 78  |      |             | 16B  | 9     |        | SPI041 | 08       |        | 01 | 2                | TQ2 | F4                  |                      | 38A                |               |
| 06120   |        | XA515     | 79  |        | XA515     | 78  |      |             | 16B  | 9     |        | SPI041 | 07       |        | 01 | 2                | TQ2 | F1                  |                      | 39B                |               |
| 08033   |        | XA515     | 80  |        |           |     |      |             |      |       |        | SPO    | 01       |        |    |                  |     |                     |                      |                    | 39A           |
| 19711   |        | XA516     | 01  |        | XA517     | 01  |      |             | 16B  | 9     |        | XIR10S | 02       | XIR10R | 01 | 1                | TT3 | A2                  |                      | 02B                |               |
| 03016   |        | XA516     | 02  |        |           |     |      |             |      |       |        | GND    | 01       |        |    |                  |     |                     |                      |                    | 01B           |
| 19704   |        | XA516     | 03  |        | XA517     | 15  |      |             | 16B  | 9     |        | XIR1RA | 01       | XIR10R | 01 | 2                | TT3 | A2                  |                      | 02A                |               |
| 19690   |        | XA516     | 04  |        |           |     |      |             |      |       |        | XIR00R | 02       | XIR00R | 00 | 1                | TT3 | A1                  |                      | 04A                |               |
| 19653   |        | XA516     | 05  |        |           |     |      |             |      |       |        | XIMRCA | 09       | XIR10R | 01 | 3                | TT3 | A2                  |                      | 03B                |               |
| 19692   |        | XA516     | 06  |        | XA517     | 06  |      |             | 16B  | 9     |        | XIR00S | 02       | XIR00R | 01 | 1                | TT3 | A1                  |                      | 05A                |               |
| 19709   |        | XA516     | 07  |        |           |     |      |             |      |       |        | XIR10R | 02       | XIR10R | 00 | 1                | TT3 | A2                  |                      | 03A                |               |
| 19685   |        | XA516     | 08  |        | XA517     | 09  |      |             | 16B  | 9     |        | XIR0RA | 01       | XIR00R | 01 | 2                | TT3 | A1                  |                      | 06A                |               |
| 19688   |        | XA516     | 09  |        |           |     |      |             |      |       |        | XIR00A | 02       | XIRE10 | 01 | 1                | TT3 | A3                  |                      | 04B                |               |
| 19652   |        | XA516     | 10  |        | XA516     | 05  |      |             | 16B  | 9     |        | XIMRCA | 08       | XIR00R | 01 | 3                | TT3 | A1                  |                      | 07A                |               |
| 19707   |        | XA516     | 11  |        |           |     |      |             |      |       |        | XIR10A | 02       | XIRE10 | 01 | 2                | TT3 | A3                  |                      | 05B                |               |
| 00677   |        | XA516     | 12  |        |           |     |      |             |      |       |        | +5V    | 01       |        |    |                  |     |                     |                      |                    |               |
| 19726   |        | XA516     | 13  |        |           |     |      |             |      |       |        | XIR20A | 02       | XIRE10 | 01 | 3                | TT3 | A3                  |                      | 06B                |               |
| 19749   |        | XA516     | 14  |        | XA517     | 14  |      |             | 16B  | 9     |        | XIR30S | 02       | XIR30R | 01 | 1                | TT3 | B2                  |                      | 09A                |               |
| 19665   |        | XA516     | 15  |        |           |     |      |             |      |       |        | XIRE10 | 02       | XIRE10 | 00 | 1                | TT3 | A3                  |                      | 07B                | DEV REQ 0+1+2 |
| 03017   |        | XA516     | 16  |        |           |     |      |             |      |       |        | GND    | 01       |        |    |                  |     |                     |                      | 21B                |               |
| 19742   |        | XA516     | 17  |        | XA517     | 27  |      |             | 16B  | 9     |        | XIR3RA | 01       | XIR30R | 01 | 2                | TT3 | B2                  |                      | 08B                |               |
| 19651   |        | XA516     | 18  |        | XA516     | 10  |      |             | 16B  | 9     |        | XIMRCA | 07       | XIR30R | 01 | 3                | TT3 | B2                  |                      | 10A                |               |
| 19747   |        | XA516     | 19  |        |           |     |      |             |      |       |        | XIR30R | 02       | XIR30R | 00 | 1                | TT3 | B2                  |                      | 09B                |               |
| 19728   |        | XA516     | 20  |        |           |     |      |             |      |       |        | XIR20R | 02       | XIR20R | 00 | 1                | TT3 | B1                  |                      | 11A                |               |
| 19745   |        | XA516     | 21  |        |           |     |      |             |      |       |        | XIR30A | 02       | XIRE20 | 01 | 1                | TT3 | B3                  |                      | 10B                |               |
| 19730   |        | XA516     | 22  |        | XA517     | 22  |      |             | 16B  | 9     |        | XIR20S | 02       | XIR20R | 01 | 1                | TT3 | B1                  |                      | 12A                |               |
| 19764   |        | XA516     | 23  |        |           |     |      |             |      |       |        | XIR40A | 02       | XIRE20 | 01 | 2                | TT3 | B3                  |                      | 11B                |               |
| 19723   |        | XA516     | 24  |        | XA517     | 21  |      |             | 16B  | 9     |        | XIR2RA | 01       | XIR20R | 01 | 2                | TT3 | B1                  |                      | 13A                |               |
| 19783   |        | XA516     | 25  |        |           |     |      |             |      |       |        | XIR50A | 02       | XIRE20 | 01 | 3                | TT3 | B3                  |                      | 12B                |               |
| 19650   |        | XA516     | 26  |        | XA516     | 18  |      |             | 16B  | 9     |        | XIMRCA | 06       | XIR20R | 01 | 3                | TT3 | B1                  |                      | 14A                |               |
| 19669   |        | XA516     | 27  |        |           |     |      |             |      |       |        | XIRE20 | 02       | XIRE20 | 00 | 1                | TT3 | B3                  |                      | 13B                | DEV REQ 3+4+5 |
| 00678   |        | XA516     | 28  |        |           |     |      |             |      |       |        | +5V    | 01       |        |    |                  |     |                     |                      |                    |               |
| 19788   |        | XA516     | 29  |        | XA515     | 64  |      |             | 16B  | 9     |        | XIR50S | 03       | XIR50R | 01 | 1                | TT3 | C2                  |                      | 14B                |               |
| 19780   |        | XA516     | 30  |        | XA517     | 39  |      |             | 16B  | 9     |        | XIR5RA | 01       | XIR50R | 01 | 2                | TT3 | C2                  |                      | 15A                |               |
| 19785   |        | XA516     | 31  |        |           |     |      |             |      |       |        | XIR50R | 02       | XIR50R | 00 | 1                | TT3 | C2                  |                      | 15B                |               |
| 03018   |        | XA516     | 32  |        |           |     |      |             |      |       |        | GND    | 01       |        |    |                  |     |                     |                      | 27A                |               |
| 19662   |        | XA516     | 33  |        | XA518     | 26  |      |             | 16B  | 9     |        | XIRE1A | 01       | XIREC0 | 01 | 1                | TT3 | C3                  |                      | 16B                |               |
| 19649   |        | XA516     | 34  |        | XA516     | 26  |      |             | 16B  | 9     |        | XIMRCA | 05       | XIR50R | 01 | 3                | TT3 | C2                  |                      | 16A                |               |
| 19666   |        | XA516     | 35  |        | XA518     | 31  |      |             | 16B  | 9     |        | XIRE2A | 01       | XIREC0 | 01 | 2                | TT3 | C3                  |                      | 17B                |               |
| 19766   |        | XA516     | 36  |        |           |     |      |             |      |       |        | XIR40R | 02       | XIR40R | 00 | 1                | TT3 | C1                  |                      | 17A                |               |
| CONNECTOR XA516 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |        |          |        |    |                  |     |                     |                      |                    |               |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA516  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 376

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SHEET NO. | SIGNAL  | SEC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | S.O. NO |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|-----------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | NO.  | MULTI GROUP | CODE | COLOR |           |         |        |          |      |        |                  |       |                     |                    |                    |         |
| 19670   |        | XA516     | 37  |        | XA518     | 42  |      |             | 16B  | 9     |           | XIRE3A  | 01     | XIRECO   | 01   | 3      | TT3              | C3    |                     | 18B                |                    |         |
| 19768   |        | XA516     | 38  |        | XA517     | 38  |      |             | 16B  | 9     |           | XIR40S  | 02     | XIR40R   | 01   | 1      | TT3              | C1    |                     | 18A                |                    |         |
| 19661   |        | XA516     | 39  |        |           |     |      |             |      |       |           | XIRECO  | 02     | XIRECO   | 00   | 1      | TT3              | C3    |                     | 19B                | DEV OR D REQ       |         |
| 19761   |        | XA516     | 40  |        | XA517     | 33  |      |             | 16B  | 9     |           | XIR4RA  | 01     | XIR40R   | 01   | 2      | TT3              | C1    |                     | 19A                |                    |         |
| 19822   |        | XA516     | 41  |        | XA517     | 46  |      |             | 16B  | 9     |           | XIR70S  | 02     | XIR70R   | 01   | 1      | TT3              | 02    |                     | 22B                |                    |         |
| 19648   |        | XA516     | 42  |        | XA516     | 34  |      |             | 16B  | 9     |           | XIMRCA  | 04     | XIR40R   | 01   | 3      | TT3              | C1    |                     | 20A                |                    |         |
| 19820   |        | XA516     | 43  |        |           |     |      |             |      |       |           | XIR70R  | 03     | XIR70R   | 00   | 1      | TT3              | 02    |                     | 23B                |                    |         |
| 03019   |        | XA516     | 44  |        |           |     |      |             |      |       |           | GND     | 01     |          |      |        | TT3              |       |                     | 40A                |                    |         |
| 19596   |        | XA516     | 45  |        |           |     |      |             |      |       |           | XIICSO  | 06     | XICSDA   | 01   | 1      | TT3              | 03    |                     | 24B                |                    |         |
| 19816   |        | XA516     | 46  |        | XA517     | 51  |      |             | 16B  | 9     |           | XIR7RA  | 01     | XIR70R   | 01   | 2      | TT3              | 02    |                     | 21A                |                    |         |
| 19590   |        | XA516     | 47  |        |           |     |      |             |      |       |           | XIICRO  | 06     | XICSDA   | 01   | 2      | TT3              | 03    |                     | 25B                |                    |         |
| 19647   |        | XA516     | 48  |        | XA516     | 42  |      |             | 16B  | 9     |           | XIMRCA  | 03     | XIR70R   | 01   | 3      | TT3              | 02    |                     | 22A                |                    |         |
| 19607   |        | XA516     | 49  |        |           |     |      |             |      |       |           | XIINTA  | 02     | XICSDA   | 01   | 3      | TT3              | 03    |                     | 26B                |                    |         |
| 19803   |        | XA516     | 50  |        |           |     |      |             |      |       |           | XIR60R  | 03     | XIR60R   | 00   | 1      | TT3              | 01    |                     | 23A                |                    |         |
| 19523   |        | XA516     | 51  |        | XA518     | 79  |      |             | 16B  | 9     |           | XICSDA  | 01     | XICSDA   | 00   | 1      | TT3              | 03    |                     | 27B                | CH.SEL.INTER*      |         |
| 19805   |        | XA516     | 52  |        | XA517     | 52  |      |             | 16B  | 9     |           | XIR60S  | 02     | XIR60R   | 01   | 1      | TT3              | 01    |                     | 24A                |                    |         |
| 19595   |        | XA516     | 53  |        | XA516     | 45  |      |             | 16B  | 9     |           | XIICSO  | 05     | XICSEA   | 01   | 1      | TT3              | E2    |                     | 28B                |                    |         |
| 19799   |        | XA516     | 54  |        | XA517     | 45  |      |             | 16B  | 9     |           | XIR6RA  | 01     | XIR60R   | 01   | 2      | TT3              | D1    |                     | 25A                |                    |         |
| 19534   |        | XA516     | 55  |        | XA517     | 59  |      |             | 16B  | 9     |           | XICSEA  | 01     | XICSEA   | 00   | 1      | TT3              | E2    |                     | 29B                | CH.SEL.ENABLE      |         |
| 19646   |        | XA516     | 56  |        | XA516     | 48  |      |             | 16B  | 9     |           | XIMRCA  | 02     | XIR60R   | 01   | 3      | TT3              | 01    |                     | 26A                |                    |         |
| 19827   |        | XA516     | 57  |        | XA514     | 13  |      |             | 16B  | 9     |           | XISTB0  | 04     | XIMRDA   | 01   | 1      | TT3              | E3    |                     | 30B                |                    |         |
| 03020   |        | XA516     | 58  |        |           |     |      |             |      |       |           | GND     | 01     |          |      |        | TT3              |       |                     | 40B                |                    |         |
| 19569   |        | XA516     | 59  |        |           |     |      |             |      |       |           | XIENB0  | 03     | XIMRDA   | 01   | 2      | TT3              | E3    |                     | 31B                |                    |         |
| 19589   |        | XA516     | 60  |        | XA516     | 47  |      |             | 16B  | 9     |           | XIICRO  | 05     | XICSEA   | 01   | 2      | TT3              | E2    |                     | 28A                |                    |         |
| 19517   |        | XA516     | 61  |        | XA518     | 68  |      |             | 16B  | 9     |           | XICMDO  | 02     | XIMRDA   | 01   | 3      | TT3              | E3    |                     | 32B                |                    |         |
| 19568   |        | XA516     | 62  |        | XA516     | 59  |      |             | 16B  | 9     |           | XIENB0  | 02     | XICSEA   | 01   | 3      | TT3              | E2    |                     | 29A                |                    |         |
| 19655   |        | XA516     | 63  |        | XA517     | 61  |      |             | 16B  | 9     |           | XIMRDA  | 02     | XIMRDA   | 00   | 1      | TT3              | E3    |                     | 33B                | DEV RESET          |         |
| 19559   |        | XA516     | 64  |        | XA518     | 09  |      |             | 16B  | 9     |           | XICSSA  | 01     | XICSSA   | 00   | 1      | TT3              | E1    |                     | 30A                | CH.SEL.STROBE      |         |
| 19593   |        | XA516     | 65  |        | XA516     | 75  |      |             | 16B  | 9     |           | XIICSO  | 03     | XICSSA   | 01   | 1      | TT3              | F2    |                     | 34B                |                    |         |
| 19592   |        | XA516     | 66  |        | XA516     | 65  |      |             | 16B  | 9     |           | XIICSO  | 02     | XICSSA   | 01   | 1      | TT3              | E1    |                     | 31A                |                    |         |
| 03021   |        | XA516     | 67  |        |           |     |      |             |      |       |           | GND     | 01     |          |      |        | TT3              |       |                     |                    |                    |         |
| 19587   |        | XA516     | 68  |        | XA518     | 63  |      |             | 16B  | 9     |           | XIICRO  | 03     | XICSSA   | 01   | 2      | TT3              | E1    |                     | 32A                |                    |         |
| 06013   |        | XA516     | 69  |        |           |     |      |             |      |       |           | SPI037  | 31     |          | 01   | 1      | TT3              | F3    |                     | 35A                |                    |         |
| 19826   |        | XA516     | 70  |        | XA516     | 57  |      |             | 16B  | 9     |           | XISTB0  | 03     | XICSSA   | 01   | 3      | TT3              | E1    |                     | 33A                |                    |         |
| 19586   |        | XA516     | 71  |        | XA516     | 68  |      |             | 16B  | 9     |           | XIICRO  | 02     | XICSSA   | 01   | 2      | TT3              | F2    |                     | 36A                |                    |         |
| 19610   |        | XA516     | 72  |        |           |     |      |             |      |       |           | XIINT0  | 03     | XICSSA   | 01   | 3      | TT3              | F2    |                     | 34A                |                    |         |
| 19522   |        | XA516     | 73  |        |           |     |      |             |      |       |           | XICSCA  | 02     | XICSCA   | 00   | 1      | TT3              | F1    |                     | 36B                | CH.SEL.COMMAND     |         |
| 19546   |        | XA516     | 74  |        | XA518     | 45  |      |             | 16B  | 9     |           | XICSSA  | 01     | XICSSA   | 00   | 1      | TT3              | F2    |                     | 35B                | CH.SEL.INTER       |         |
| 19594   |        | XA516     | 75  |        | XA516     | 53  |      |             | 16B  | 9     |           | XIICSO  | 04     | XICSCA   | 01   | 1      | TT3              | F1    |                     | 37B                |                    |         |
| 06159   |        | XA516     | 76  |        | XA517     | 78  |      |             | 16B  | 9     |           | XIICSO  | 12     |          | 01   | 2      | TT3              | F3    |                     | 37A                |                    |         |
| 19585   |        | XA516     | 77  |        | XA516     | 71  |      |             | 16B  | 9     |           | XIICRO  | 01     | XICSCA   | 01   | 2      | TT3              | F1    |                     | 38B                |                    |         |
| 06122   |        | XA516     | 78  |        | XA517     | 76  |      |             | 16B  | 9     |           | SPI041  | 09     |          | 01   | 3      | TT3              | F3    |                     | 38A                |                    |         |
| 19516   |        | XA516     | 79  |        | XA516     | 61  |      |             | 16B  | 9     |           | XICMDO  | 01     | XICSCA   | 01   | 3      | TT3              | F1    |                     | 39B                |                    |         |
| 08034   |        | XA516     | 80  |        |           |     |      |             |      |       |           | SPO     | 01     |          | 00   | 1      | TT3              | F3    |                     | 39A                |                    |         |
| 19712   |        | XA517     | 01  |        | XA518     | 05  |      |             | 16B  | 9     |           | XIR10S  | 03     | XIR10S   | 00   | 1      | TQ2              | A2    |                     | 02B                | DEV REQ 1          |         |
| 03022   |        | XA517     | 02  |        |           |     |      |             |      |       |           | GND     | 01     |          |      |        | TQ2              |       |                     | 01A                |                    |         |
| 19836   |        | XA517     | 03  |        | XA515     | 10  |      |             | 16B  | 9     |           | XI00CTX | 01     | XIR0RA   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |         |
| 19695   |        | XA517     | 04  |        | XA518     | 08  |      |             | 16B  | 9     |           | XIR1CA  | 01     | XIR10S   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |         |
| CONNECTOR XA517 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |           |         |        |          |      |        |                  |       |                     |                    |                    |         |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA517  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 377

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |       |       | SIGNAL | SEQ NO  | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO    |
|---|--------|-----------|-----|--------|-----------|-----|------|-------|-------|--------|---------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|-----------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | CODE | COLOP | IDENT |        |         |          |             |                  |       |                     |                    |                    |           |
| 19708   |        | XA517     | 05  |        | XA516     | 07  |      | 16B   | 9     |        | XIR10R  | 01       | XIR10S      | J1               | 2     | TQ2                 | A2                 | 03B                |           |
| 19693   |        | XA517     | 06  |        | XA518     | 04  |      | 16B   | 9     |        | XIR00S  | 03       | XIR00S      | 00               | 1     | TQ2                 | A1                 | 05A                | DEV REQ 0 |
| 19537   |        | XA517     | 07  |        | XA517     | 13  |      | 16B   | 9     |        | XICSE0  | 01       | XIR0RA      | 01               | 2     | TQ2                 | A3                 | 03A                |           |
| 19676   |        | XA517     | 08  |        | XA518     | 13  |      | 16B   | 9     |        | XIROCA  | 01       | XIR00S      | 01               | 1     | TQ2                 | A1                 | 06A                |           |
| 19686   |        | XA517     | 09  |        |           |     |      |       |       |        | XIR0RA  | 02       | XIR0RA      | 00               | 1     | TQ2                 | A3                 | 04B                |           |
| 19689   |        | XA517     | 10  |        | XA516     | 04  |      | 16B   | 9     |        | XIR00R  | 01       | XIR00S      | 01               | 2     | TQ2                 | A1                 | 07A                |           |
| 19844   |        | XA517     | 11  |        | XA515     | 05  |      | 16B   | 9     |        | XI01CTX | 01       | XIR1RA      | 01               | 1     | TQ2                 | A4                 | 05B                |           |
| 00679   |        | XA517     | 12  |        |           |     |      |       |       |        | +5V     | 01       |             |                  |       | TQ2                 |                    |                    |           |
| 19538   |        | XA517     | 13  |        | XA517     | 19  |      | 16B   | 9     |        | XICSE0  | 02       | XIR1RA      | 01               | 2     | TQ2                 | A4                 | 06B                |           |
| 19750   |        | XA517     | 14  |        | XA518     | 17  |      | 16B   | 9     |        | XIR30S  | 03       | XIR30S      | 00               | 1     | TQ2                 | B2                 | 09A                | DEV REQ 3 |
| 19705   |        | XA517     | 15  |        |           |     |      |       |       |        | XIR1RA  | 02       | XIR1RA      | 00               | 1     | TQ2                 | A4                 | 07B                |           |
| 03023   |        | XA517     | 16  |        |           |     |      |       |       |        | GND     | 01       |             |                  |       | TQ2                 |                    | 01B                |           |
| 19852   |        | XA517     | 17  |        | XA515     | 07  |      | 16B   | 9     |        | XI02CTX | 01       | XIR2RA      | 01               | 1     | TQ2                 | B3                 | 08B                |           |
| 19733   |        | XA517     | 18  |        | XA518     | 25  |      | 16B   | 9     |        | XIR3CA  | 01       | XIR30S      | 01               | 1     | TQ2                 | B2                 | 10A                |           |
| 19539   |        | XA517     | 19  |        | XA517     | 25  |      | 16B   | 9     |        | XICSE0  | 03       | XIR2RA      | 01               | 2     | TQ2                 | B3                 | 09B                |           |
| 19746   |        | XA517     | 20  |        | XA516     | 19  |      | 16B   | 9     |        | XIR30P  | 01       | XIR30S      | 01               | 2     | TQ2                 | B2                 | 11A                |           |
| 19724   |        | XA517     | 21  |        |           |     |      |       |       |        | XIR2RA  | 02       | XIR2RA      | 00               | 1     | TQ2                 | B3                 | 10B                |           |
| 19731   |        | XA517     | 22  |        | XA518     | 20  |      | 16B   | 9     |        | XIR20S  | 03       | XIR20S      | 00               | 1     | TQ2                 | B1                 | 12A                | DEV REQ 2 |
| 19860   |        | XA517     | 23  |        | XA515     | 13  |      | 16B   | 9     |        | XI03CTX | 01       | XIR3RA      | 01               | 1     | TQ2                 | B4                 | 11B                |           |
| 19714   |        | XA517     | 24  |        | XA518     | 24  |      | 16B   | 9     |        | XIR2CA  | 01       | XIR20S      | 01               | 1     | TQ2                 | B1                 | 13A                |           |
| 19540   |        | XA517     | 25  |        | XA517     | 31  |      | 16B   | 9     |        | XICSE0  | 04       | XIR3RA      | 01               | 2     | TQ2                 | B4                 | 12B                |           |
| 19727   |        | XA517     | 26  |        | XA516     | 20  |      | 16B   | 9     |        | XIR20P  | 01       | XIR20S      | 01               | 2     | TQ2                 | B1                 | 14A                |           |
| 19743   |        | XA517     | 27  |        |           |     |      |       |       |        | XIR3RA  | 02       | XIR3RA      | 00               | 1     | TQ2                 | B4                 | 13B                |           |
| 00680   |        | XA517     | 28  |        |           |     |      |       |       |        | +5V     | 01       |             |                  |       | TQ2                 |                    |                    |           |
| 19868   |        | XA517     | 29  |        | XA515     | 26  |      | 16B   | 9     |        | XI04CTX | 01       | XIR4RA      | 01               | 1     | TQ2                 | C3                 | 14B                |           |
| 19787   |        | XA517     | 30  |        | XA516     | 29  |      | 16B   | 9     |        | XIR50S  | 02       | XIR50S      | 00               | 1     | TQ2                 | C2                 | 15A                | DEV REQ 5 |
| 19541   |        | XA517     | 31  |        | XA517     | 37  |      | 16B   | 9     |        | XICSE0  | 05       | XIR4RA      | 01               | 2     | TQ2                 | C3                 | 15B                |           |
| 03024   |        | XA517     | 32  |        |           |     |      |       |       |        | GND     | 01       |             |                  |       | TQ2                 |                    | 20B                |           |
| 19762   |        | XA517     | 33  |        |           |     |      |       |       |        | XIR4RA  | 02       | XIR4RA      | 00               | 1     | TQ2                 | C3                 | 16B                |           |
| 19771   |        | XA517     | 34  |        | XA518     | 37  |      | 16B   | 9     |        | XIR5CA  | 01       | XIR50S      | 01               | 1     | TQ2                 | C2                 | 16A                |           |
| 19877   |        | XA517     | 35  |        | XA511     | 65  |      | 16B   | 9     |        | XI05CTX | 02       | XIR5RA      | 01               | 1     | TQ2                 | C4                 | 17B                |           |
| 19784   |        | XA517     | 36  |        | XA516     | 31  |      | 16B   | 9     |        | XIR50R  | 01       | XIR50S      | 01               | 2     | TQ2                 | C2                 | 17A                |           |
| 19542   |        | XA517     | 37  |        | XA517     | 43  |      | 16B   | 9     |        | XICSE0  | 06       | XIR5RA      | 01               | 2     | TQ2                 | C4                 | 18B                |           |
| 19769   |        | XA517     | 38  |        | XA518     | 36  |      | 16B   | 9     |        | XIR40S  | 03       | XIR40S      | 00               | 1     | TQ2                 | C1                 | 18A                | DEV REQ 4 |
| 19781   |        | XA517     | 39  |        |           |     |      |       |       |        | XIR5RA  | 02       | XIR5RA      | 00               | 1     | TQ2                 | C4                 | 19B                |           |
| 19752   |        | XA517     | 40  |        | XA518     | 40  |      | 16B   | 9     |        | XIR4CA  | 01       | XIR40S      | 01               | 1     | TQ2                 | C1                 | 19A                |           |
| 19885   |        | XA517     | 41  |        | XA511     | 73  |      | 16B   | 9     |        | XI06CTX | 02       | XIR6RA      | 01               | 1     | TQ2                 | D3                 | 22B                |           |
| 19765   |        | XA517     | 42  |        | XA516     | 36  |      | 16B   | 9     |        | XIR40R  | 01       | XIR40S      | 01               | 2     | TQ2                 | C1                 | 20A                |           |
| 19543   |        | XA517     | 43  |        | XA517     | 49  |      | 16B   | 9     |        | XICSE0  | 07       | XIR6RA      | 01               | 2     | TQ2                 | D3                 | 23B                |           |
| 03025   |        | XA517     | 44  |        |           |     |      |       |       |        | GND     | 01       |             |                  |       | TQ2                 |                    | 21B                |           |
| 19800   |        | XA517     | 45  |        |           |     |      |       |       |        | XIR6RA  | 02       | XIR6RA      | 00               | 1     | TQ2                 | D3                 | 24B                |           |
| 19823   |        | XA517     | 46  |        |           |     |      |       |       |        | XIR70S  | 03       | XIR70S      | 00               | 1     | TQ2                 | D2                 | 21A                | DEV REQ 7 |
| 19893   |        | XA517     | 47  |        | XA511     | 72  |      | 16B   | 9     |        | XI07CTX | 02       | XIR7RA      | 01               | 1     | TQ2                 | D4                 | 25B                |           |
| 19808   |        | XA517     | 48  |        |           |     |      |       |       |        | XIR7CA  | 02       | XIR70S      | 01               | 1     | TQ2                 | D2                 | 22A                |           |
| 19544   |        | XA517     | 49  |        | XA518     | 48  |      | 16B   | 9     |        | XICSE0  | 08       | XIR7RA      | 01               | 2     | TQ2                 | D4                 | 26B                |           |
| 19819   |        | XA517     | 50  |        | XA516     | 43  |      | 16B   | 9     |        | XIR70R  | 02       | XIR70S      | 01               | 2     | TQ2                 | D2                 | 23A                |           |
| 19817   |        | XA517     | 51  |        |           |     |      |       |       |        | XIR7RA  | 02       | XIR7RA      | 00               | 1     | TQ2                 | D4                 | 27B                |           |
| 19806   |        | XA517     | 52  |        |           |     |      |       |       |        | XIR60S  | 03       | XIR60S      | 00               | 1     | TQ2                 | D1                 | 24A                | DEV REQ 6 |
| 19609   |        | XA517     | 53  |        | XA516     | 72  |      | 16B   | 9     |        | XIINT0  | 02       |             | 01               | 1     | TQ2                 | E3                 | 28B                |           |
| 19790   |        | XA517     | 54  |        | XA518     | 54  |      | 16B   | 9     |        | XIR6CA  | 01       | XIR60S      | 01               | 1     | TQ2                 | D1                 | 25A                |           |
| CONNECTOR XA517 CONTINUED ON THE NEXT PAGE:**** |        |           |     |        |           |     |      |       |       |        |         |          |             |                  |       |                     |                    |                    |           |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA517  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 378

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE |    |             |      | SIGNAL | SFG NO  | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND OF | SIGNAL DESCRIPTION | ECO NO |       |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|------|----|-------------|------|--------|---------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|-------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | DI   | DI | MULTI GROUP | CODE |        |         |          |        |        |                  |       |                     |                    |                    |        | COLOR |
| 06151         |        | XA517     | 55                              |        | XA517     | 64  |      |    | 16B         | 9    |        | SPI042  | 04       | XIINTA | 01     | 2                | TQ2   | E3                  | 29B                |                    |        |       |
| 19802         |        | XA517     | 56                              |        | XA516     | 50  |      |    | 16B         | 9    |        | XIR60R  | 02       | XIR60S | 01     | 2                | TQ2   | D1                  | 26A                |                    |        |       |
| 19606         |        | XA517     | 57                              |        | XA516     | 49  |      |    | 16B         | 9    |        | XIINTA  | 01       | XIINTA | 00     | 1                | TQ2   | E3                  | 30B                |                    |        |       |
| 03026         |        | XA517     | 58                              |        |           |     |      |    |             |      |        | GND     | 01       |        |        |                  | TQ2   |                     | 27A                |                    |        |       |
| 19535         |        | XA517     | 59                              |        | XA518     | 50  |      |    | 16B         | 9    |        | XICSEA  | 02       | XIENAO | 01     | 1                | TQ2   | E4                  | 31B                |                    |        |       |
| 08035         |        | XA517     | 60                              |        |           |     |      |    |             |      |        | SPO     | 01       |        |        |                  | TQ2   | E2                  | 28A                |                    |        |       |
| 19656         |        | XA517     | 61                              |        | XA518     | 41  |      |    | 16B         | 9    |        | XIMRDA  | 03       | XIENAO | 01     | 2                | TQ2   | E4                  | 32B                |                    |        |       |
| 06124         |        | XA517     | 62                              |        | XA517     | 65  |      |    | 16B         | 9    |        | SPI041  | 11       |        |        |                  | TQ2   | E2                  | 29A                |                    |        |       |
| 19566         |        | XA517     | 63                              |        |           |     |      |    |             |      |        | XIENAO  | 02       | XIENAO | 00     | 1                | TQ2   | E4                  | 33B                | DEV ENABLE         |        |       |
| 06152         |        | XA517     | 64                              |        | XA518     | 69  |      |    | 16B         | 9    |        | SPI042  | 05       |        |        |                  | TQ2   | E2                  | 30A                |                    |        |       |
| 06125         |        | XA517     | 65                              |        | XA521     | 71  |      |    | 16B         | 9    |        | SPI041  | 12       |        |        |                  | TQ2   | F3                  | 34B                |                    |        |       |
| 19673         |        | XA517     | 66                              |        |           |     |      |    |             |      |        | XIRE30  | 02       | XIRE30 | 00     | 1                | TQ2   | E1                  | 31A                | DEV REQ 6+7        |        |       |
| 03027         |        | XA517     | 67                              |        |           |     |      |    |             |      |        | GND     | 01       |        |        |                  | TQ2   |                     | 40A                |                    |        |       |
| 19801         |        | XA517     | 68                              |        | XA517     | 56  |      |    | 16B         | 9    |        | XIR60R  | 01       | XIRE30 | 01     | 1                | TQ2   | E1                  | 32A                |                    |        |       |
| 08036         |        | XA517     | 69                              |        |           |     |      |    |             |      |        | SPO     | 00       |        |        |                  | TQ2   | F3                  | 35A                |                    |        |       |
| 19818         |        | XA517     | 70                              |        | XA517     | 50  |      |    | 16B         | 9    |        | XIR70R  | 01       | XIRE30 | 01     | 2                | TQ2   | E1                  | 33A                |                    |        |       |
| 19658         |        | XA517     | 71                              |        | XA518     | 46  |      |    | 16B         | 9    |        | XIMRDO  | 01       | XIMRCA | 01     | 1                | TQ2   | F2                  | 36A                |                    |        |       |
| 19645         |        | XA517     | 72                              |        | XA516     | 56  |      |    | 16B         | 9    |        | XIMRCA  | 01       | XIMRCA | 00     | 1                | TQ2   | F2                  | 34A                | ENB.CMD.STB.       |        |       |
| 19825         |        | XA517     | 73                              |        | XA516     | 70  |      |    | 16B         | 9    |        | XISTB0  | 02       | XIMRCA | 01     | 2                | TQ2   | F2                  | 36B                |                    |        |       |
| 06161         |        | XA517     | 74                              |        | XA518     | 73  |      |    | 16B         | 9    |        | SPI042  | 14       |        |        |                  | TQ2   | F3                  | 35B                |                    |        |       |
| 19520         |        | XA517     | 75                              |        |           |     |      |    |             |      |        | XICSA0  | 02       | XICSA0 | 00     | 1                | TQ2   | F1                  | 37B                | DEV COMMAND        |        |       |
| 06123         |        | XA517     | 76                              |        | XA517     | 62  |      |    | 16B         | 9    |        | SPI041  | 10       |        |        |                  | TQ2   | F4                  | 37A                |                    |        |       |
| 19654         |        | XA517     | 77                              |        | XA516     | 63  |      |    | 16B         | 9    |        | XIMRDA  | 01       | XICSA0 | 01     | 1                | TQ2   | F1                  | 38B                |                    |        |       |
| 06160         |        | XA517     | 78                              |        | XA517     | 74  |      |    | 16B         | 9    |        | SPI042  | 13       |        |        |                  | TQ2   | F4                  | 38A                |                    |        |       |
| 19521         |        | XA517     | 79                              |        | XA516     | 73  |      |    | 16B         | 9    |        | XICSCA  | 01       | XICSA0 | 01     | 2                | TQ2   | F1                  | 39B                |                    |        |       |
| 08037         |        | XA517     | 80                              |        |           |     |      |    |             |      |        | SPO     | 01       |        |        |                  | TQ2   | F4                  | 39A                |                    |        |       |
| 19706         |        | XA518     | 01                              |        | XA516     | 11  |      |    | 16B         | 9    |        | XIR10A  | 01       | XIR10A | 00     | 1                | THI   | A4                  | 02B                |                    |        |       |
| 03028         |        | XA518     | 02                              |        |           |     |      |    |             |      |        | GND     | 01       |        |        |                  | THI   |                     | 01A                |                    |        |       |
| 19687         |        | XA518     | 03                              |        | XA516     | 09  |      |    | 16B         | 9    |        | XIR00A  | 01       | XIR00A | 00     | 1                | THI   | A3                  | 03A                |                    |        |       |
| 19694         |        | XA518     | 04                              |        |           |     |      |    |             |      |        | XIR00S  | 04       | XIROJA | 01     | 1                | THI   | A3                  | 02A                |                    |        |       |
| 19713         |        | XA518     | 05                              |        |           |     |      |    |             |      |        | XIR10S  | 04       | XIR10A | 01     | 1                | THI   | A4                  | 03B                |                    |        |       |
| 19697         |        | XA518     | 06                              |        | XA512     | 73  |      |    | 16B         | 9    |        | XIRICTX | 01       | XIRICA | 01     | 1                | THI   | A2                  | 05A                |                    |        |       |
| 19561         |        | XA518     | 07                              |        | XA512     | 13  |      |    | 16B         | 9    |        | XICSS0  | 01       | XICSS0 | 00     | 1                | THI   | A5                  | 04B                |                    |        |       |
| 19696         |        | XA518     | 08                              |        |           |     |      |    |             |      |        | XIRICA  | 02       | XIRICA | 00     | 1                | THI   | A2                  | 04A                |                    |        |       |
| 19560         |        | XA518     | 09                              |        |           |     |      |    |             |      |        | XICSSA  | 02       | XICSS0 | 01     | 1                | THI   | A5                  | 05B                |                    |        |       |
| 08038         |        | XA518     | 10                              |        |           |     |      |    |             |      |        | SPO     | 01       |        |        |                  | THI   | A6                  | 06B                |                    |        |       |
| 19678         |        | XA518     | 11                              |        | XA512     | 65  |      |    | 16B         | 9    |        | XIROCTX | 01       | XIROCA | 01     | 1                | THI   | A1                  | 07A                |                    |        |       |
| 00681         |        | XA518     | 12                              |        |           |     |      |    |             |      |        | +5V     | 01       |        |        |                  | THI   |                     |                    |                    |        |       |
| 19677         |        | XA518     | 13                              |        |           |     |      |    |             |      |        | XIROCA  | 02       | XIROCA | 00     | 1                | THI   | A1                  | 06A                |                    |        |       |
| 19744         |        | XA518     | 14                              |        | XA516     | 21  |      |    | 16B         | 9    |        | XIR30A  | 01       | XIR30A | 00     | 1                | THI   | B4                  | 08B                |                    |        |       |
| 06148         |        | XA518     | 15                              |        | XA515     | 31  |      |    | 16B         | 9    |        | SPI042  | 01       |        |        |                  | THI   | A6                  | 07B                |                    |        |       |
| 03029         |        | XA518     | 16                              |        |           |     |      |    |             |      |        | GND     | 01       |        |        |                  | THI   |                     | 20B                |                    |        |       |
| 19751         |        | XA518     | 17                              |        |           |     |      |    |             |      |        | XIR30S  | 04       | XIR30A | 01     | 1                | THI   | B4                  | 09B                |                    |        |       |
| 19725         |        | XA518     | 18                              |        | XA516     | 13  |      |    | 16B         | 9    |        | XIR20A  | 01       | XIR20A | 00     | 1                | THI   | B3                  | 09A                |                    |        |       |
| 19584         |        | XA518     | 19                              |        |           |     |      |    |             |      |        | XIGNDA  | 10       | XIGNDA | 00     | 1                | THI   | B5                  | 10B                |                    |        |       |
| 19732         |        | XA518     | 20                              |        |           |     |      |    |             |      |        | XIR20S  | 04       | XIR20A | 01     | 1                | THI   | B3                  | 10A                |                    |        |       |
| 06298         |        | XA518     | 21                              |        | XA525     | 21  |      |    | 16B         | 9    |        | SPI301  | 08       | XIGNDA | 01     | 1                | THI   | B5                  | 11B                |                    | C13    |       |
| 19716         |        | XA518     | 22                              |        | XA512     | 72  |      |    | 16B         | 9    |        | XIR2CTX | 01       | XIR2CA | 01     | 1                | THI   | B1                  | 14A                |                    |        |       |
| CONNECTOR     |        | XA518     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |    |             |      |        |         |          |        |        |                  |       |                     |                    |                    |        |       |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA518  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 379

| RECORD NUMBER | FROM   |                                 |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | QTY | LOAD OR POWER PLANE | TEST POINTS (AND) OR | SIGNAL DESCRIPTION | ECO NO          |
|---------------|--------|---------------------------------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------|--------|----------|------|------|------------------|-----|---------------------|----------------------|--------------------|-----------------|
|               | PREFIX | CONNECTOR                       | PIN | INTL | PREFIX | CONNECTOR | PIN | INTL | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |      |                  |     |                     |                      |                    |                 |
| 19735         | XA518  | 23                              |     |      | XA513  | 69        |     |      | 16B         | 9    |       |       | XIR3CTX | 01     | XIR3CA   | 01   | 1    | THI              | B2  |                     | 12A                  |                    |                 |
| 19715         | XA518  | 24                              |     |      |        |           |     |      |             |      |       |       | XIR2CA  | 02     | XIR2CA   | 00   | 1    | THI              | B1  |                     | 13A                  |                    |                 |
| 19734         | XA518  | 25                              |     |      |        |           |     |      |             |      |       |       | XIR3CA  | 02     | XIR3CA   | 00   | 1    | THI              | B2  |                     | 11A                  |                    |                 |
| 19663         | XA518  | 26                              |     |      |        |           |     |      |             |      |       |       | XIRE1A  | 02     | XIRE1A   | 00   | 1    | THI              | B6  |                     | 12B                  |                    |                 |
| 19664         | XA518  | 27                              |     |      | XA516  | 15        |     |      | 16B         | 9    |       |       | XIRE1J  | 01     | XIRE1A   | 01   | 1    | THI              | B6  |                     | 13B                  |                    |                 |
| 00682         | XA518  | 28                              |     |      |        |           |     |      |             |      |       |       | +5V     | 01     |          |      |      | THI              |     |                     |                      |                    |                 |
| 19786         | XA518  | 29                              |     |      | XA517  | 30        |     |      | 16B         | 9    |       |       | XIR50S  | 01     | XIR50A   | 01   | 1    | THI              | C4  |                     | 15B                  |                    |                 |
| 19782         | XA518  | 30                              |     |      | XA516  | 25        |     |      | 16B         | 9    |       |       | XIR50A  | 01     | XIR50A   | 00   | 1    | THI              | C4  |                     | 14B                  |                    |                 |
| 19667         | XA518  | 31                              |     |      |        |           |     |      |             |      |       |       | XIRE2A  | 02     | XIRE2A   | 00   | 1    | THI              | C5  |                     | 16B                  |                    |                 |
| 03030         | XA518  | 32                              |     |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |      | THI              |     |                     | 21B                  |                    |                 |
| 19668         | XA518  | 33                              |     |      | XA516  | 27        |     |      | 16B         | 9    |       |       | XIRE2J  | 01     | XIRE2A   | 01   | 1    | THI              | C5  |                     | 17B                  |                    |                 |
| 19763         | XA518  | 34                              |     |      | XA516  | 23        |     |      | 16B         | 9    |       |       | XIR40A  | 01     | XIR40A   | 00   | 1    | THI              | C3  |                     | 15A                  |                    |                 |
| 19773         | XA518  | 35                              |     |      | XA513  | 73        |     |      | 16B         | 9    |       |       | XIR5CTX | 01     | XIR5CA   | 01   | 1    | THI              | C2  |                     | 18A                  |                    |                 |
| 19770         | XA518  | 36                              |     |      |        |           |     |      |             |      |       |       | XIR40S  | 04     | XIR40A   | 01   | 1    | THI              | C3  |                     | 16A                  |                    |                 |
| 19772         | XA518  | 37                              |     |      |        |           |     |      |             |      |       |       | XIR5CA  | 02     | XIR5CA   | 00   | 1    | THI              | C2  |                     | 17A                  |                    |                 |
| 19754         | XA518  | 38                              |     |      | XA513  | 65        |     |      | 16B         | 9    |       |       | XIR4CTX | 01     | XIR4CA   | 01   | 1    | THI              | C1  |                     | 20A                  |                    |                 |
| 19672         | XA518  | 39                              |     |      | XA517  | 66        |     |      | 16B         | 9    |       |       | XIRE30  | 01     | XIRE3A   | 01   | 1    | THI              | C6  |                     | 19B                  |                    |                 |
| 19753         | XA518  | 40                              |     |      |        |           |     |      |             |      |       |       | XIR4CA  | 02     | XIR4CA   | 00   | 1    | THI              | C1  |                     | 19A                  |                    |                 |
| 19657         | XA518  | 41                              |     |      |        |           |     |      |             |      |       |       | XIMRDA  | 04     | XIMRDO   | 01   | 1    | THI              | D4  |                     | 23B                  |                    |                 |
| 19671         | XA518  | 42                              |     |      |        |           |     |      |             |      |       |       | XIRE3A  | 02     | XIRE3A   | 00   | 1    | THI              | C6  |                     | 18B                  |                    |                 |
| 19558         | XA518  | 43                              |     |      |        |           |     |      |             |      |       |       | XICSI0  | 11     | XICSI0   | 00   | 1    | THI              | D5  |                     | 24B                  |                    |                 |
| 03031         | XA518  | 44                              |     |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |      | THI              |     |                     | 27A                  |                    |                 |
| 19547         | XA518  | 45                              |     |      |        |           |     |      |             |      |       |       | XIC5IA  | 02     | XIC5IO   | 01   | 1    | THI              | D5  |                     | 25B                  |                    |                 |
| 19659         | XA518  | 46                              |     |      |        |           |     |      |             |      |       |       | XIMRDO  | 02     | XIMRDO   | 00   | 1    | THI              | D4  |                     | 22B                  |                    |                 |
| 19810         | XA518  | 47                              |     |      |        |           |     |      |             |      |       |       | XIR7CTX | 02     | XIR7CA   | 01   | 1    | THI              | D2  |                     | 24A                  |                    |                 |
| 19545         | XA518  | 48                              |     |      |        |           |     |      |             |      |       |       | XIC5E0  | 09     | XIC5E0   | 00   | 1    | THI              | D3  |                     | 21A                  |                    |                 |
| 19807         | XA518  | 49                              |     |      | XA517  | 48        |     |      | 16B         | 9    |       |       | XIR7CA  | 01     | XIR7CA   | 00   | 1    | THI              | D2  |                     | 23A                  |                    |                 |
| 19536         | XA518  | 50                              |     |      |        |           |     |      |             |      |       |       | XIC5EA  | 03     | XIC5E0   | 01   | 1    | THI              | D3  |                     | 22A                  |                    |                 |
| 19660         | XA518  | 51                              |     |      | XA516  | 39        |     |      | 16B         | 9    |       |       | XIRECO  | 01     | XIRQ3A   | 01   | 1    | THI              | D6  |                     | 27B                  |                    |                 |
| 19792         | XA518  | 52                              |     |      | XA513  | 72        |     |      | 16B         | 9    |       |       | XIR6CTX | 01     | XIR6CA   | 01   | 1    | THI              | D1  |                     | 26A                  |                    |                 |
| 19675         | XA518  | 53                              |     |      |        |           |     |      |             |      |       |       | XIRQ3A  | 02     | XIRQ3A   | 00   | 1    | THI              | D6  |                     | 26B                  |                    |                 |
| 19791         | XA518  | 54                              |     |      |        |           |     |      |             |      |       |       | XIR6CA  | 02     | XIR6CA   | 00   | 1    | THI              | D1  |                     | 25A                  |                    |                 |
| 15674         | XA518  | 55                              |     |      | XA426  | 19        |     |      | 16B         | 9    |       |       | TSTBCA  | 06     | XISTB0   | 01   | 1    | THI              | E4  |                     | 29B                  |                    |                 |
| 19824         | XA518  | 56                              |     |      | XA517  | 73        |     |      | 16B         | 9    |       |       | XISTB0  | 01     | XISTB0   | 00   | 1    | THI              | E4  |                     | 28B                  |                    | IOC STROBE      |
| 19567         | XA518  | 57                              |     |      | XA516  | 62        |     |      | 16B         | 9    |       |       | XIENB0  | 01     | XIENB0   | 00   | 1    | THI              | E5  |                     | 30B                  |                    | IOC ENABLE      |
| 03032         | XA518  | 58                              |     |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |      | THI              |     |                     | 40A                  |                    |                 |
| 12520         | XA518  | 59                              |     |      | XA426  | 64        |     |      | 16B         | 9    |       |       | TENACA  | 06     | XIENB0   | 01   | 1    | THI              | E5  |                     | 31B                  |                    |                 |
| 19608         | XA518  | 60                              |     |      | XA517  | 53        |     |      | 16B         | 9    |       |       | XIINT0  | 01     | XIINT0   | 00   | 1    | THI              | E3  |                     | 28A                  |                    | IOC INTERROGATE |
| 09933         | XA518  | 61                              |     |      | XA426  | 49        |     |      | 16B         | 9    |       |       | TCSXMA  | 06     | XIICRO   | 01   | 1    | THI              | E2  |                     | 31A                  |                    |                 |
| 13398         | XA518  | 62                              |     |      | XA426  | 14        |     |      | 16B         | 9    |       |       | TINTCA  | 06     | XIINT0   | 01   | 1    | THI              | E3  |                     | 29A                  |                    |                 |
| 19588         | XA518  | 63                              |     |      | XA516  | 60        |     |      | 16B         | 9    |       |       | XIICRO  | 04     | XIICRO   | 00   | 1    | THI              | E2  |                     | 30A                  |                    | IOC ADRS        |
| 09974         | XA518  | 64                              |     |      |        |           |     |      |             |      |       |       | TCS3AA  | 03     | XIICSO   | 01   | 1    | THI              | E1  |                     | 33A                  |                    |                 |
| 09748         | XA518  | 65                              |     |      | XA525  | 65        |     |      | 16B         | 9    |       |       | TCMDOA  | 02     | XICMDO   | 01   | 1    | THI              | E6  |                     | 33B                  |                    |                 |
| 19591         | XA518  | 66                              |     |      | XA516  | 66        |     |      | 16B         | 9    |       |       | XIICSO  | 01     | XIICSO   | 00   | 1    | THI              | E1  |                     | 32A                  |                    | IOC INDICATOR   |
| 03033         | XA518  | 67                              |     |      |        |           |     |      |             |      |       |       | GND     | 01     |          |      |      | THI              |     |                     |                      |                    |                 |
| 19518         | XA518  | 68                              |     |      |        |           |     |      |             |      |       |       | XICMDO  | 03     | XICMDO   | 00   | 1    | THI              | E6  |                     | 32B                  |                    | IOC COMMAND     |
| 06153         | XA518  | 69                              |     |      | XA515  | 77        |     |      | 16B         | 9    |       |       | SPI042  | 06     |          | 01   | 1    | THI              | F3  |                     | 35B                  |                    |                 |
| 08039         | XA518  | 70                              |     |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1    | THI              | F3  |                     | 34B                  |                    |                 |
| 08040         | XA518  | 71                              |     |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1    | THI              | F2  |                     | 36B                  |                    |                 |
| 08041         | XA518  | 72                              |     |      |        |           |     |      |             |      |       |       | SPO     | 01     |          | 00   | 1    | THI              | F4  |                     | 34A                  |                    |                 |
| CONNECTOR     | XA518  | CONTINUED ON THE NEXT PAGE **** |     |      |        |           |     |      |             |      |       |       |         |        |          |      |      |                  |     |                     |                      |                    |                 |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA518  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 380

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       | SPEC. MISC. | SIGNAL | SEQ NO  | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------------|--------|---------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLCR |             |        |         |          |      |      |                  |       |                     |                    |                    |        |
| 06162   |        | XA518     | 73  |        | XA518     | 75  |             |      | 168   | 9           |        |         |          | 01   | 1    | THI              | F2    |                     | 37B                |                    |        |
| 06165   |        | XA518     | 74  |        | XA521     | 72  |             |      | 168   | 9           |        |         |          | 01   | 1    | THI              | F4    |                     | 35A                |                    |        |
| 06163   |        | XA518     | 75  |        | XA518     | 76  |             |      | 168   | 9           |        |         |          | 01   | 1    | THI              | F6    |                     | 39A                |                    |        |
| 06164   |        | XA518     | 76  |        | XA518     | 74  |             |      | 168   | 9           |        |         |          | 01   | 1    | THI              | F5    |                     | 37A                |                    |        |
| 08042   |        | XA518     | 77  |        |           |     |             |      |       |             |        |         |          | 00   | 1    | THI              | F6    |                     | 38A                |                    |        |
| 08043   |        | XA518     | 78  |        |           |     |             |      |       |             |        |         |          | 00   | 1    | THI              | F5    |                     | 36A                |                    |        |
| 19524   |        | XA518     | 79  |        |           |     |             |      |       |             |        | XICSD0  |          | 01   | 1    | THI              | F1    |                     | 39B                |                    |        |
| 19525   |        | XA518     | 80  |        | XA515     | 23  |             |      | 168   | 9           |        | XICSD0  |          | 00   | 1    | THI              | F1    |                     | 38B                |                    |        |
| 01557   |        | XA519     | 01  |        |           |     |             |      |       |             |        | DNW     |          |      |      | RR4              |       |                     |                    |                    |        |
| 03034   |        | XA519     | 02  |        |           |     |             |      |       |             |        | GND     |          |      |      | RR4              |       |                     |                    |                    |        |
| 21343   |        | XA519     | 02  |        |           |     |             |      |       |             |        | +5VDCR  |          |      |      | RR4              |       |                     |                    | B05                |        |
| 21375   |        | XA519     | 02  |        | XA519     | 06  |             |      | 168   | 9           |        | G51902  |          |      |      | RR4              |       |                     |                    | B05                |        |
| 00142   |        | XA519     | 03  |        | XA107     | 61  |             | BR   | 1ED   | 2           |        | +5VDCF  |          |      |      | RR4              | AP    |                     |                    | B05                |        |
| 00143   |        | XA519     | 04  |        | XA519     | 03  |             |      | 168   | 9           |        | +5VDCF  |          |      |      | RR4              | AP    |                     |                    | B05                |        |
| 17771   |        | XA519     | 05  |        | XA401     | 07  |             |      | 168   | 9           |        | XA02DB4 |          |      |      | RR4              | A3    |                     |                    | A01                |        |
| 03435   |        | XA519     | 06  |        | XA519     | 18  |             |      | 168   | 9           |        | G51902  |          |      |      | RR4              | AC    |                     |                    | B05                |        |
| 17784   |        | XA519     | 07  |        | XA401     | 09  |             |      | 168   | 9           |        | XA03DB4 |          |      |      | RR4              | A4    |                     |                    | A01                |        |
| 17745   |        | XA519     | 08  |        | XA401     | 03  |             |      | 168   | 9           |        | XA00DB4 |          |      |      | RR4              | A1    |                     |                    | A01                |        |
| 17797   |        | XA519     | 09  |        | XA401     | 11  |             |      | 168   | 9           |        | XA04DB4 |          |      |      | RR4              | A5    |                     |                    | A01                |        |
| 17758   |        | XA519     | 10  |        | XA401     | 05  |             |      | 168   | 9           |        | XA01DB4 |          |      |      | RR4              | A2    |                     |                    | A01                |        |
| 01558   |        | XA519     | 11  |        |           |     |             |      |       |             |        | DNW     |          |      |      | RR4              |       |                     |                    |                    |        |
| 00683   |        | XA519     | 12  |        |           |     |             |      |       |             |        | +5V     |          |      |      | RR4              |       |                     |                    |                    |        |
| 00144   |        | XA519     | 13  |        | XA519     | 04  |             |      | 168   | 9           |        | +5VDCF  |          |      |      | RR4              | BP    |                     |                    | B05                |        |
| 00145   |        | XA519     | 14  |        | XA519     | 13  |             |      | 168   | 9           |        | +5VDCF  |          |      |      | RR4              | BP    |                     |                    | B05                |        |
| 03916   |        | XA519     | 15  |        |           |     |             |      |       |             |        | DNW     |          |      |      | RR4              |       |                     | KEYWAY             | C04                |        |
| 03917   |        | XA519     | 16  |        |           |     |             |      |       |             |        | DNW     |          |      |      | RR4              |       |                     | KEYWAY             | C04                |        |
| 17732   |        | XA519     | 17  |        | XA401     | 01  |             |      | 168   | 9           |        | XA0PDB4 |          |      |      | RR4              | B4    |                     |                    | A01                |        |
| 03436   |        | XA519     | 18  |        | XA519     | 30  |             |      | 168   | 9           |        | G51902  |          |      |      | RR4              | BC    |                     |                    | B05                |        |
| 17555   |        | XA519     | 19  |        | XA401     | 19  |             |      | 168   | 9           |        | XAR0DB4 |          |      |      | RR4              | B5    |                     |                    | A01                |        |
| 17810   |        | XA519     | 20  |        | XA401     | 13  |             |      | 168   | 9           |        | XA05DB4 |          |      |      | RR4              | B1    |                     |                    | A01                |        |
| 00146   |        | XA519     | 21  |        | XA519     | 14  |             |      | 168   | 9           |        | +5VDCF  |          |      |      | RR4              | CP    |                     |                    | B05                |        |
| 00147   |        | XA519     | 22  |        | XA519     | 21  |             |      | 168   | 9           |        | +5VDCF  |          |      |      | RR4              | CP    |                     |                    | B05                |        |
| 17621   |        | XA519     | 23  |        | XA401     | 25  |             |      | 168   | 9           |        | XAR3DB4 |          |      |      | RR4              | C3    |                     |                    | A01                |        |
| 17836   |        | XA519     | 24  |        | XA401     | 17  |             |      | 168   | 9           |        | XA07DB4 |          |      |      | RR4              | B3    |                     |                    | A01                |        |
| 17643   |        | XA519     | 25  |        | XA401     | 27  |             |      | 168   | 9           |        | XAR4DB4 |          |      |      | RR4              | C4    |                     |                    | A01                |        |
| 17823   |        | XA519     | 26  |        | XA401     | 15  |             |      | 168   | 9           |        | XA06DB4 |          |      |      | RR4              | B2    |                     |                    | A01                |        |
| 01559   |        | XA519     | 27  |        |           |     |             |      |       |             |        | DNW     |          |      |      | RR4              |       |                     |                    |                    |        |
| 00684   |        | XA519     | 28  |        |           |     |             |      |       |             |        | +5V     |          |      |      | RR4              |       |                     |                    |                    |        |
| 17665   |        | XA519     | 29  |        | XA401     | 29  |             |      | 168   | 9           |        | XAR5DB4 |          |      |      | RR4              | C5    |                     |                    | A01                |        |
| 03437   |        | XA519     | 30  |        | XA519     | 40  |             |      | 168   | 9           |        | G51902  |          |      |      | RR4              | CC    |                     |                    | B05                |        |
| 01560   |        | XA519     | 31  |        |           |     |             |      |       |             |        | DNW     |          |      |      | RR4              |       |                     |                    |                    |        |
| 03035   |        | XA519     | 32  |        |           |     |             |      |       |             |        | GND     |          |      |      | RR4              |       |                     |                    |                    |        |
| 21376   |        | XA519     | 32  |        |           |     |             |      |       |             |        | G51902  |          |      |      | RR4              |       |                     |                    | B05                |        |
| 00148   |        | XA519     | 33  |        | XA519     | 22  |             |      | 168   | 9           |        | +5VDCF  |          |      |      | RR4              | DP    |                     |                    | B05                |        |
| 00149   |        | XA519     | 34  |        | XA519     | 33  |             |      | 168   | 9           |        | +5VDCF  |          |      |      | RR4              | DP    |                     |                    | B05                |        |
| 17503   |        | XA519     | 35  |        | XA401     | 39  |             |      | 168   | 9           |        | XAINDB4 |          |      |      | RR4              | D3    |                     |                    | A01                |        |
| 17577   |        | XA519     | 36  |        | XA401     | 21  |             |      | 168   | 9           |        | XAR1DB4 |          |      |      | RR4              | C1    |                     |                    | A01                |        |
| 17432   |        | XA519     | 37  |        | XA401     | 37  |             |      | 168   | 9           |        | XACMDB4 |          |      |      | RR4              | D4    |                     |                    | A01                |        |
| CONNECTOR (XA519) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |             |        |         |          |      |      |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA519  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 381

| RECORD NUMBER                                   | FROM   |           |     |        | TO     |           |     |        | WIRE        |      |       | SPEC INST | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD GP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|--------|-----------|-----|--------|-------------|------|-------|-----------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH FTG | PREFIX | CONNECTOR | PIN | SH FTG | MULTI GROUP | CODE | COLOR |           |          |        |          |      |        |                  |       |                     |                    |                    |        |
| 17599   |        | XA519     | 38  |        |        | XA401     | 23  |        |             | 16B  | 9     |           | XAR2DB4  | 02     |          |      | RR4    | C2               |       |                     |                    | A01                |        |
| 17473   |        | XA519     | 39  |        |        | XA401     | 35  |        |             | 16B  | 9     |           | XAENDB4  | 02     |          |      | RR4    | D5               |       |                     |                    | A01                |        |
| 03438   |        | XA519     | 40  |        |        | XA519     | 32  |        |             | 16B  | 9     |           | G51902   | 05     |          |      | RR4    | DC               |       |                     |                    | B05                |        |
| 06290   |        | XA519     | 41  |        |        | XA520     | 55  |        |             | 16B  | 9     |           | XAR3DB4  | 005    |          |      | RR4    | E5               |       |                     |                    | C13                |        |
| 17687   |        | XA519     | 42  |        |        | XA401     | 31  |        |             | 16B  | 9     |           | XAR6DB4  | 02     |          |      | RR4    | D1               |       |                     |                    | A01                |        |
| 01561   |        | XA519     | 43  |        |        |           |     |        |             |      |       |           | DNW      | 01     |          |      | RR4    |                  |       |                     |                    |                    |        |
| 03036   |        | XA519     | 44  |        |        |           |     |        |             |      |       |           | GND      | 01     |          |      | RR4    |                  |       |                     |                    |                    |        |
| 21377   |        | XA519     | 44  |        |        | XA519     | 54  |        |             | 16B  | 9     |           | G51944   | 01     |          |      | RR4    |                  |       |                     |                    | C02                |        |
| 06289   |        | XA519     | 45  |        |        | XA520     | 17  |        |             | 16B  | 9     |           | XA01DB4  | 005    |          |      | RR4    | E4               |       |                     |                    | C13                |        |
| 17707   |        | XA519     | 46  |        |        | XA401     | 33  |        |             | 16B  | 9     |           | XAR7DB4  | 02     |          |      | RR4    | D2               |       |                     |                    | A01                |        |
| 06287   |        | XA519     | 47  |        |        | XA520     | 14  |        |             | 16B  | 9     |           | XA02DB4  | 005    |          |      | RR4    | E3               |       |                     |                    | C13                |        |
| 06285   |        | XA519     | 48  |        |        | XA520     | 07  |        |             | 16B  | 9     |           | XA03DB4  | 005    |          |      | RR4    | E2               |       |                     |                    | C13                |        |
| 00150   |        | XA519     | 49  |        |        | XA519     | 34  |        |             | 16B  | 9     |           | +5VDCF   | 875    |          |      | RR4    | EP               |       |                     |                    | C13                |        |
| 00151   |        | XA519     | 50  |        |        | XA519     | 49  |        |             | 16B  | 9     |           | +5VDCF   | 870    |          |      | RR4    | EP               |       |                     |                    | C13                |        |
| 06320   |        | XA519     | 51  |        |        | XA520     | 01  |        |             | 16B  | 9     |           | XA03DB4  | 005    |          |      | RR4    | F5               |       |                     |                    | C13                |        |
| 06273   |        | XA519     | 52  |        |        | XA520     | 61  |        |             | 16B  | 9     |           | XAR6DB4  | 005    |          |      | RR4    | E1               |       |                     |                    | C13                |        |
| 06299   |        | XA519     | 53  |        |        | XA520     | 27  |        |             | 16B  | 9     |           | XA04DB4  | 005    |          |      | RR4    | F4               |       |                     |                    | C13                |        |
| 03439   |        | XA519     | 54  |        |        | XA519     | 64  |        |             | 16B  | 9     |           | G51944   | 02     |          |      | RR4    | EC               |       |                     |                    | B05                |        |
| 06297   |        | XA519     | 55  |        |        | XA520     | 37  |        |             | 16B  | 9     |           | XA05DB4  | 005    |          |      | RR4    | F3               |       |                     |                    | C13                |        |
| 06294   |        | XA519     | 56  |        |        | XA520     | 41  |        |             | 16B  | 9     |           | XA06DB4  | 005    |          |      | RR4    | F2               |       |                     |                    | C13                |        |
| 03918   |        | XA519     | 57  |        |        |           |     |        |             |      |       |           | DNW      | 01     |          |      | RR4    |                  |       |                     | KEYWAY             | C04                |        |
| 03919   |        | XA519     | 58  |        |        |           |     |        |             |      |       |           | DNW      | 01     |          |      | RR4    |                  |       |                     | KEYWAY             | C04                |        |
| 00152   |        | XA519     | 59  |        |        | XA519     | 50  |        |             | 16B  | 9     |           | +5VDCF   | 865    |          |      | RR4    | FP               |       |                     |                    | C13                |        |
| 00153   |        | XA519     | 60  |        |        | XA519     | 59  |        |             | 16B  | 9     |           | +5VDCF   | 860    |          |      | RR4    | FP               |       |                     |                    | C13                |        |
| 07811   |        | XA519     | 61  |        |        | XA520     | 60  |        |             | 16B  | 9     |           | XAR1DB4  | 005    |          |      | RR4    | G5               |       |                     |                    | C13                |        |
| 06293   |        | XA519     | 62  |        |        | XA520     | 23  |        |             | 16B  | 9     |           | XA07DB4  | 005    |          |      | RR4    | F1               |       |                     |                    | C13                |        |
| 07812   |        | XA519     | 63  |        |        | XA520     | 43  |        |             | 16B  | 9     |           | XAR2DB4  | 005    |          |      | RR4    | G4               |       |                     |                    | C13                |        |
| 03440   |        | XA519     | 64  |        |        | XA519     | 74  |        |             | 16B  | 9     |           | G51944   | 03     |          |      | RR4    | FC               |       |                     |                    | B05                |        |
| 07813   |        | XA519     | 65  |        |        | XA520     | 46  |        |             | 16B  | 9     |           | XA0PDB4  | 005    |          |      | RR4    | G3               |       |                     |                    | C13                |        |
| 07814   |        | XA519     | 66  |        |        | XA520     | 65  |        |             | 16B  | 9     |           | XAR3DB4  | 005    |          |      | RR4    | G2               |       |                     |                    | C13                |        |
| 03037   |        | XA519     | 67  |        |        |           |     |        |             |      |       |           | GND      | 01     |          |      | RR4    |                  |       |                     |                    |                    |        |
| 21378   |        | XA519     | 67  |        |        |           |     |        |             |      |       |           | G51944   | 06     |          |      | RR4    |                  |       |                     |                    | B05                |        |
| 01562   |        | XA519     | 68  |        |        |           |     |        |             |      |       |           | DNW      | 01     |          |      | RR4    |                  |       |                     |                    |                    |        |
| 00154   |        | XA519     | 69  |        |        | XA519     | 60  |        |             | 16B  | 9     |           | +5VDCF   | 855    |          |      | RR4    | GP               |       |                     |                    | C13                |        |
| 00155   |        | XA519     | 70  |        |        | XA519     | 69  |        |             | 16B  | 9     |           | +5VDCF   | 850    |          |      | RR4    | GP               |       |                     |                    | C13                |        |
| 07815   |        | XA519     | 71  |        |        | XA520     | 78  |        |             | 16B  | 9     |           | XAR4DB4  | 005    |          |      | RR4    | H5               |       |                     |                    | C13                |        |
| 03780   |        | XA519     | 72  |        |        | XA522     | 65  |        |             | 16B  | 9     |           | XAR7DB4  | 005    |          |      | RR4    | G1               |       |                     |                    | C13                |        |
| 07816   |        | XA519     | 73  |        |        | XA520     | 80  |        |             | 16B  | 9     |           | XAR5DB4  | 005    |          |      | RR4    | H4               |       |                     |                    | C13                |        |
| 03441   |        | XA519     | 74  |        |        | XA519     | 77  |        |             | 16B  | 9     |           | G51944   | 04     |          |      | RR4    | GC               |       |                     |                    | B05                |        |
| 07817   |        | XA519     | 75  |        |        | XA522     | 61  |        |             | 16B  | 9     |           | XAENDB4  | 005    |          |      | RR4    | H3               |       |                     |                    | C13                |        |
| 07818   |        | XA519     | 76  |        |        | XA522     | 80  |        |             | 16B  | 9     |           | XACHDB4  | 005    |          |      | RR4    | H2               |       |                     |                    | C13                |        |
| 03442   |        | XA519     | 77  |        |        | XA519     | 67  |        |             | 16B  | 9     |           | G51944   | 05     |          |      | RR4    | HC               |       |                     |                    | B05                |        |
| 07819   |        | XA519     | 78  |        |        | XA522     | 78  |        |             | 16B  | 9     |           | XAINDB4  | 005    |          |      | RR4    | H1               |       |                     |                    | C13                |        |
| 00156   |        | XA519     | 79  |        |        | XA519     | 70  |        |             | 16B  | 9     |           | +5VDCF   | 845    |          |      | RR4    | HP               |       |                     |                    | C13                |        |
| 00157   |        | XA519     | 80  |        |        | XA519     | 79  |        |             | 16B  | 9     |           | +5VDCF   | 840    |          |      | RR4    | HP               |       |                     |                    | C13                |        |
| 17777   |        | XA520     | 01  |        |        |           |     |        |             |      |       | J         | XA03CDX  | 01     | XA03CDX  | 00   | 1      | DCF              | A7    | 02A                 | XA03DR4 BUSS       |                    |        |
| 17783   |        | XA520     | 01  |        |        | XA519     | 07  |        |             | 16B  | 9     | P         | XA03CDA  | 01     | XA03DB4  | 01   | 1      | DCF              | A7    | 02A                 | DEV DATA LINE 3    |                    |        |
| 17787   |        | XA520     | 02  |        |        |           |     |        |             |      |       |           | XA03DB4R | 02     |          |      | DCF    |                  | 01A   |                     |                    |                    |        |
| CONNECTOR XA520 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |           |     |        |             |      |       |           |          |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA520  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 382

| RECORD NUMBER | FROM   |                                 |     | TO     |           |     | WIRE |             |      |       | SPL. POINT | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PL. LINE | TEST POINTS ANCHOR | SIGNAL DESCRIPTION | ECO NO          |
|---------------|--------|---------------------------------|-----|--------|-----------|-----|------|-------------|------|-------|------------|----------|--------|----------|------|--------|------------------|-------|------------------------|--------------------|--------------------|-----------------|
|               | PREFIX | CONNECTOR                       | PIN | PREFIX | CONNECTOR | PIN | TYPE | MULTI GROUP | CODE | COLOR |            |          |        |          |      |        |                  |       |                        |                    |                    |                 |
| 21127         |        | XA520                           | 02  |        |           |     |      |             |      |       |            | GND      |        |          |      |        |                  |       |                        |                    | 01A                |                 |
| 17778         |        | XA520                           | 03  | XA522  | 04        |     |      | 16B         | 9    |       |            | XA03COX  | 01     | XA03COX  | 00   | 1      | DCF              | A8    |                        |                    | 03A                |                 |
| 11026         |        | XA520                           | 04  | XA526  | 04        |     |      | 16B         | 9    |       |            | TDL3A0   | 04     | XA03COX  | 01   | 1      | DCF              | A8    |                        |                    | 04A                |                 |
| 17748         |        | XA520                           | 05  |        |           |     |      |             |      |       |            | XA00DB4R | 02     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 17460         |        | XA520                           | 06  | XA520  | 36        |     |      | 16B         | 9    |       |            | XACSSA   | 01     | XA00CDX  | 01   | 1      | DCF              | A1    |                        |                    | 05A                |                 |
| 20582         |        | XA520                           | 06  |        |           |     |      |             |      |       | M          | XACSSA   | 01     | XA03CDX  | 01   | 1      | DCF              | A7    |                        |                    | 05A                |                 |
| 20583         |        | XA520                           | 06  |        |           |     |      |             |      |       | M          | XACSSA   | 01     | XA01CDX  | 01   | 1      | DCF              | A3    |                        |                    | 05A                |                 |
| 20584         |        | XA520                           | 06  |        |           |     |      |             |      |       | M          | XACSSA   | 01     | XA02CDX  | 01   | 1      | DCF              | A5    |                        |                    | 05A                |                 |
| 17738         |        | XA520                           | 07  |        |           |     |      |             |      |       | J          | XA00CDX  | 01     | XA00CDX  | 00   | 1      | DCF              | A1    |                        |                    | 02B                | XA00DB4 BUSS    |
| 17744         |        | XA520                           | 07  | XA519  | 08        |     |      | 16B         | 9    |       | P          | XA00CDX  | 01     | XA00DB4  | 01   | 1      | DCF              | A1    |                        |                    | 02B                | DEV DATA LINE 0 |
| 11015         |        | XA520                           | 08  | XA510  | 37        |     |      | 16B         | 9    |       |            | TDL2A0   | 07     | XA02COX  | 01   | 1      | DCF              | A6    |                        |                    | 06A                |                 |
| 17739         |        | XA520                           | 09  | XA522  | 11        |     |      | 16B         | 9    |       |            | XA00COX  | 01     | XA00COX  | 00   | 1      | DCF              | A2    |                        |                    | 03B                |                 |
| 17765         |        | XA520                           | 10  | XA522  | 08        |     |      | 16B         | 9    |       |            | XA02COX  | 01     | XA02COX  | 00   | 1      | DCF              | A6    |                        |                    | 07A                |                 |
| 10987         |        | XA520                           | 11  | XA526  | 11        |     |      | 16B         | 9    |       |            | TDLOA0   | 03     | XA00COX  | 01   | 1      | DCF              | A2    |                        |                    | 04B                |                 |
| 00685         |        | XA520                           | 12  |        |           |     |      |             |      |       |            | +5V      | 01     |          |      |        | DCF              |       |                        |                    | 08A                |                 |
| 10999         |        | XA520                           | 13  | XA526  | 13        |     |      | 16B         | 9    |       |            | TDL1A0   | 03     | XA01COX  | 01   | 1      | DCF              | A4    |                        |                    | 05B                |                 |
| 17764         |        | XA520                           | 14  |        |           |     |      |             |      |       | J          | XA02CDX  | 01     | XA02CDX  | 00   | 1      | DCF              | A5    |                        |                    | 08B                | XA02DB4 BUSS    |
| 17770         |        | XA520                           | 14  | XA519  | 05        |     |      | 16B         | 9    |       | P          | XA02CDX  | 01     | XA02DB4  | 01   | 1      | DCF              | A5    |                        |                    | 08B                | DEV DATA LINE 2 |
| 17754         |        | XA520                           | 15  |        |           |     |      |             |      |       |            | XA01COX  | 03     | XA01COX  | 00   | 1      | DCF              | A4    |                        |                    | 06B                |                 |
| 17774         |        | XA520                           | 16  |        |           |     |      |             |      |       |            | XA02DB4R | 02     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 21128         |        | XA520                           | 16  |        |           |     |      |             |      |       |            | GND      |        |          |      |        | DCF              |       |                        |                    |                    |                 |
| 17751         |        | XA520                           | 17  |        |           |     |      |             |      |       | J          | XA01CDX  | 01     | XA01CDX  | 00   | 1      | DCF              | A3    |                        |                    | 07B                | XA01DB4 BUSS    |
| 17757         |        | XA520                           | 17  | XA519  | 10        |     |      | 16B         | 9    |       | P          | XA01CDX  | 01     | XA01DB4  | 01   | 1      | DCF              | A3    |                        |                    | 07B                | DEV DATA LINE 1 |
| 01563         |        | XA520                           | 18  |        |           |     |      |             |      |       |            | DNW      | 01     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 17761         |        | XA520                           | 19  |        |           |     |      |             |      |       |            | XA01DB4R | 02     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 01564         |        | XA520                           | 20  |        |           |     |      |             |      |       |            | DNW      | 01     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 17839         |        | XA520                           | 21  |        |           |     |      |             |      |       |            | XA07DB4R | 02     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 01565         |        | XA520                           | 22  |        |           |     |      |             |      |       |            | DNW      | 01     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 17829         |        | XA520                           | 23  |        |           |     |      |             |      |       | J          | XA07CDX  | 01     | XA07CDX  | 00   | 1      | DCF              | B7    |                        |                    | 10A                | XA07DB4 BUSS    |
| 17835         |        | XA520                           | 23  | XA519  | 24        |     |      | 16B         | 9    |       | P          | XA07CDX  | 01     | XA07DB4  | 01   | 1      | DCF              | B7    |                        |                    | 10A                | DEV DATA LINE 7 |
| 01566         |        | XA520                           | 24  |        |           |     |      |             |      |       |            | DNW      | 01     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 17800         |        | XA520                           | 25  |        |           |     |      |             |      |       |            | XA04DB4R | 02     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 01567         |        | XA520                           | 26  |        |           |     |      |             |      |       |            | DNW      | 01     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 17790         |        | XA520                           | 27  |        |           |     |      |             |      |       | J          | XA04CDX  | 01     | XA04CDX  | 00   | 1      | DCF              | B1    |                        |                    | 10B                | XA04DB4 BUSS    |
| 17796         |        | XA520                           | 27  | XA519  | 09        |     |      | 16B         | 9    |       | P          | XA04CDX  | 01     | XA04DB4  | 01   | 1      | DCF              | B1    |                        |                    | 10B                | DEV DATA LINE 4 |
| 00686         |        | XA520                           | 28  |        |           |     |      |             |      |       |            | +5V      | 01     |          |      |        | DCF              |       |                        |                    | 21B                |                 |
| 17793         |        | XA520                           | 29  |        |           |     |      |             |      |       |            | XA04COX  | 03     | XA04COX  | 00   | 1      | DCF              | B2    |                        |                    | 11B                |                 |
| 17830         |        | XA520                           | 30  | XA522  | 34        |     |      | 16B         | 9    |       |            | XA07COX  | 01     | XA07COX  | 00   | 1      | DCF              | B8    |                        |                    | 11A                |                 |
| 11039         |        | XA520                           | 31  | XA526  | 31        |     |      | 16B         | 9    |       |            | TDL4A0   | 04     | XA04COX  | 01   | 1      | DCF              | B2    |                        |                    | 12B                |                 |
| 03038         |        | XA520                           | 32  |        |           |     |      |             |      |       |            | GND      | 01     |          |      |        | DCF              |       |                        |                    |                    |                 |
| 11052         |        | XA520                           | 33  | XA526  | 33        |     |      | 16B         | 9    |       |            | TDL5A0   | 04     | XA05COX  | 01   | 1      | DCF              | B4    |                        |                    | 13B                |                 |
| 11077         |        | XA520                           | 34  | XA526  | 34        |     |      | 16B         | 9    |       |            | TDL7A0   | 04     | XA07COX  | 01   | 1      | DCF              | B8    |                        |                    | 12A                |                 |
| 17806         |        | XA520                           | 35  |        |           |     |      |             |      |       |            | XA05COX  | 03     | XA05COX  | 00   | 1      | DCF              | B4    |                        |                    | 14B                |                 |
| 17461         |        | XA520                           | 36  | XA520  | 52        |     |      | 16B         | 9    |       |            | XACSSA   | 02     | XA04CDX  | 01   | 1      | DCF              | B1    |                        |                    | 13A                |                 |
| 20585         |        | XA520                           | 36  |        |           |     |      |             |      |       | M          | XACSSA   | 01     | XA06CDX  | 01   | 1      | DCF              | B5    |                        |                    | 13A                |                 |
| 20586         |        | XA520                           | 36  |        |           |     |      |             |      |       | M          | XACSSA   | 01     | XA07CDX  | 01   | 1      | DCF              | B7    |                        |                    | 13A                |                 |
| 20587         |        | XA520                           | 36  |        |           |     |      |             |      |       | M          | XACSSA   | 01     | XA05CDX  | 01   | 1      | DCF              | B3    |                        |                    | 13A                |                 |
| 17803         |        | XA520                           | 37  |        |           |     |      |             |      |       | J          | XA05CDX  | 01     | XA05CDX  | 00   | 1      | DCF              | B3    |                        |                    | 15B                | XA05DB4 BUSS    |
| 17809         |        | XA520                           | 37  | XA519  | 20        |     |      | 16B         | 9    |       | P          | XA05CDX  | 01     | XA05DB4  | 01   | 1      | DCF              | B3    |                        |                    | 15B                | DEV DATA LINE 5 |
| 11064         |        | XA520                           | 38  | XA526  | 38        |     |      | 16B         | 9    |       |            | TDL6A0   | 03     | XA06COX  | 01   | 1      | DCF              | B6    |                        |                    | 14A                |                 |
| CONNECTOR     | XA520  | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |      |             |      |       |            |          |        |          |      |        |                  |       |                        |                    |                    |                 |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA520  
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| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE |      |      |   | MULTI GROUP | CODE | COL IN | IDENT | DIRECTION | SIGNAL | SEQ NO  | EQUATION | TERM FACTOR | CMT OR COND TYPE | DGN | LOAD OR POWER PLANE | TEST POINTS END JP | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|------|------|------|---|-------------|------|--------|-------|-----------|--------|---------|----------|-------------|------------------|-----|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | ENFG | ENFC | ENFD |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17813         |        | XA520     | 39                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17819         |        | XA520     | 40                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17816         |        | XA520     | 41                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17822         |        | XA520     | 41                              |        | XA519     | 26  |      |      | 16B  | 9 |             |      |        | J     | XA06CDX   | 01     | XA06CDX | 00       | 1           | DCF              | B5  |                     | 16A                | XA06DB4 BUSS       |        |
| 17826         |        | XA520     | 42                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17593         |        | XA520     | 43                              |        |           |     |      |      |      |   |             |      |        | J     | XAR2CDX   | 01     | XAR2CDX | 00       | 1           | DCF              | C7  |                     | 20B                | XAR2DB4 BUSS       |        |
| 17598         |        | XA520     | 43                              |        | XA519     | 38  |      |      | 16B  | 9 |             |      |        | P     | XAR2CDX   | 01     | XAR2DB4 | 01       | 1           | DCF              | C7  |                     | 25A                |                    |        |
| 17602         |        | XA520     | 44                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 21129         |        | XA520     | 44                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17735         |        | XA520     | 45                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17726         |        | XA520     | 46                              |        |           |     |      |      |      |   |             |      |        | J     | XAOPCDX   | 01     | XAOPCDX | 00       | 1           | DCF              | C1  |                     | 29B                | XAOPDB4 BUSS       |        |
| 17731         |        | XA520     | 46                              |        | XA519     | 17  |      |      | 16B  | 9 |             |      |        | P     | XAOPCDX   | 01     | XAOPDB4 | 01       | 1           | DCF              | C1  |                     | 25B                | DEV DATA LINE PAR  |        |
| 17727         |        | XA520     | 47                              |        | XA521     | 49  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17594         |        | XA520     | 48                              |        | XA525     | 22  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 10980         |        | XA520     | 49                              |        | XA526     | 49  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17481         |        | XA520     | 50                              |        | XA522     | 52  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17479         |        | XA520     | 51                              |        | XA520     | 54  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17462         |        | XA520     | 52                              |        | XA523     | 64  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 20588         |        | XA520     | 52                              |        |           |     |      |      |      |   |             |      |        | M     | XACSSA    | 01     | XARICDX | 01       | 1           | DCF              | C5  |                     | 29A                |                    |        |
| 20589         |        | XA520     | 52                              |        |           |     |      |      |      |   |             |      |        | M     | XACSSA    | 01     | XAROCDX | 01       | 1           | DCF              | C3  |                     | 29A                |                    |        |
| 20590         |        | XA520     | 52                              |        |           |     |      |      |      |   |             |      |        | M     | XACSSA    | 01     | XAR2CDX | 01       | 1           | DCF              | C7  |                     | 29A                |                    |        |
| 17558         |        | XA520     | 53                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17480         |        | XA520     | 54                              |        | XA520     | 50  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17549         |        | XA520     | 55                              |        |           |     |      |      |      |   |             |      |        | J     | XAROCDX   | 01     | XAROCDX | 00       | 1           | DCF              | C3  |                     | 30A                | XARODB4 BUSS       |        |
| 17554         |        | XA520     | 55                              |        | XA519     | 19  |      |      | 16B  | 9 |             |      |        | P     | XAROCDX   | 01     | XARODB4 | 01       | 1           | DCF              | C3  |                     | 30B                |                    |        |
| 17550         |        | XA520     | 56                              |        | XA525     | 11  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17572         |        | XA520     | 57                              |        | XA525     | 06  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17580         |        | XA520     | 58                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 21130         |        | XA520     | 58                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17689         |        | XA520     | 59                              |        | XA401     | 32  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17571         |        | XA520     | 60                              |        |           |     |      |      |      |   |             |      |        | J     | XARICDX   | 01     | XARICDX | 00       | 1           | DCF              | C5  |                     | 31B                | XAR1DB4 BUSS       |        |
| 17576         |        | XA520     | 60                              |        | XA519     | 36  |      |      | 16B  | 9 |             |      |        | P     | XARICDX   | 01     | XAR1DB4 | 01       | 1           | DCF              | C5  |                     | 31B                |                    |        |
| 17681         |        | XA520     | 61                              |        |           |     |      |      |      |   |             |      |        | J     | XAR6CDX   | 01     | XAR6CDX | 00       | 1           | DCF              | D7  |                     | 33A                | XAR6DB4 BUSS       |        |
| 17686         |        | XA520     | 61                              |        | XA519     | 42  |      |      | 16B  | 9 |             |      |        | P     | XAR6CDX   | 01     | XAR6DB4 | 01       | 1           | DCF              | D7  |                     | 33A                |                    |        |
| 01568         |        | XA520     | 62                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 01569         |        | XA520     | 63                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 01570         |        | XA520     | 64                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17615         |        | XA520     | 65                              |        |           |     |      |      |      |   |             |      |        | J     | DNW       | 01     |         |          |             |                  |     |                     |                    |                    |        |
| 17620         |        | XA520     | 65                              |        | XA519     | 23  |      |      | 16B  | 9 |             |      |        | P     | XAR3CDX   | 01     | XAR3CDX | 00       | 1           | DCF              | D1  |                     | 32B                | XAR3DB4 BUSS       |        |
| 01571         |        | XA520     | 66                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17623         |        | XA520     | 67                              |        | XA401     | 26  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 21131         |        | XA520     | 67                              |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17682         |        | XA520     | 68                              |        | XA525     | 52  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 17616         |        | XA520     | 69                              |        | XA525     | 23  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 06316         |        | XA520     | 70                              |        | XA520     | 74  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 06319         |        | XA520     | 71                              |        | XA411     | 39  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 06284         |        | XA520     | 72                              |        | XA410     | 08  |      |      | 16B  | 9 |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |
| 20345         |        | XA520     | 72                              |        |           |     |      |      |      |   |             |      |        | M     | SPI301    | 01     | XAR5CDX | 01       | 1           | DCF              | D5  |                     | 36A                |                    |        |
| 20346         |        | XA520     | 72                              |        |           |     |      |      |      |   |             |      |        | M     | SPI301    | 01     | XAR3CDX | 01       | 1           | DCF              | D1  |                     | 36A                |                    |        |
| 20347         |        | XA520     | 72                              |        |           |     |      |      |      |   |             |      |        | M     | SPI301    | 01     | XAR6CDX | 01       | 1           | DCF              | D7  |                     | 36A                |                    |        |
| CONNECTOR     |        | XA520     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |      |      |   |             |      |        |       |           |        |         |          |             |                  |     |                     |                    |                    |        |

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| RECORD NUMBER | FROM   |                                 |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|---------------------------------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | INFO | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |       |                     |                    |                    |        |
| 06318         |        | XA520                           | 73  |      |        | XA520     | 71  |      |             | 168  | 9     |       | SPI309   | 19     | XAR4C0X  | 01   | 1      | DCF              | D4    |                     | 35B                |                    |        |
| 06317         |        | XA520                           | 74  |      |        | XA520     | 73  |      |             | 168  | 9     |       | SPI309   | 18     | XAR5C0X  | 01   | 1      | DCF              | D6    |                     | 37A                |                    |        |
| 17638         |        | XA520                           | 75  |      |        | XA525     | 38  |      |             | 168  | 9     |       | XAR4C0X  | 01     | XAR4C0X  | 00   | 1      | DCF              | D4    |                     | 36B                | DEV REQ REC 4      |        |
| 17660         |        | XA520                           | 76  |      |        | XA525     | 35  |      |             | 168  | 9     |       | XAR5C0X  | 01     | XAR5C0X  | 00   | 1      | DCF              | D6    |                     | 38A                | DEV REQ REC 5      |        |
| 17645         |        | XA520                           | 77  |      |        | XA401     | 28  |      |             | 168  | 9     |       | XAR4DB4R | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 17637         |        | XA520                           | 78  |      |        |           |     |      |             |      |       | J     | XAR4CDX  | 01     | XAR4CDX  | 00   | 1      | DCF              | D3    |                     | 37B                | XAR4DB4 BUSS       |        |
| 17642         |        | XA520                           | 78  |      |        | XA519     | 25  |      |             | 168  | 9     | P     | XAR4CDX  | 01     | XAR4DB4  | 01   | 1      | DCF              | D3    |                     | 37B                |                    |        |
| 17667         |        | XA520                           | 79  |      |        | XA401     | 30  |      |             | 168  | 9     |       | XAR5DB4R | 01     |          |      |        | DCF              |       |                     | 40B                |                    |        |
| 17659         |        | XA520                           | 80  |      |        |           |     |      |             |      |       | J     | XAR5CDX  | 01     | XAR5CDX  | 00   | 1      | DCF              | D5    |                     | 38B                | XAR5DB4 BUSS       |        |
| 17664         |        | XA520                           | 80  |      |        | XA519     | 29  |      |             | 168  | 9     | P     | XAR5CDX  | 01     | XAR5DB4  | 01   | 1      | DCF              | D5    |                     | 38B                |                    |        |
| 10852         |        | XA521                           | 01  |      |        | XA424     | 18  |      |             | 168  | 9     | P     | XA03BDX  | 10     | TD13BB4  | 02   | 1      | DCF              | A7    |                     | 02A                | DEV REQ 3 TO IOC   |        |
| 17776         |        | XA521                           | 01  |      |        |           |     |      |             |      |       | J     | XA03BDX  | 01     | XA03BDX  | 00   | 1      | DCF              | A7    |                     | 02A                | TD13BB4 BUSS       |        |
| 03230         |        | XA521                           | 02  |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | DCF              |       |                     | 01A                |                    |        |
| 20605         |        | XA521                           | 03  |      |        |           |     |      |             |      |       | M     | XA03BOX  | 01     | XA03BOX  | 00   | 1      | DCF              | A8    |                     | 03A                |                    |        |
| 17631         |        | XA521                           | 04  |      |        | XA523     | 14  |      |             | 168  | 9     |       | XAR30S   | 01     | XA03BOX  | 01   | 1      | DCF              | A8    |                     | 04A                |                    |        |
| 03249         |        | XA521                           | 05  |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 17457         |        | XA521                           | 06  |      |        | XA521     | 36  |      |             | 168  | 9     |       | XAC51A   | 01     | XA00BDX  | 01   | 1      | DCF              | A1    |                     | 05A                |                    |        |
| 20576         |        | XA521                           | 06  |      |        |           |     |      |             |      |       | M     | XAC51A   | 01     | XA01BDX  | 01   | 1      | DCF              | A3    |                     | 05A                |                    |        |
| 20577         |        | XA521                           | 06  |      |        |           |     |      |             |      |       | M     | XAC51A   | 01     | XA02BDX  | 01   | 1      | DCF              | A5    |                     | 05A                |                    |        |
| 20578         |        | XA521                           | 06  |      |        |           |     |      |             |      |       | M     | XAC51A   | 01     | XA03BDX  | 01   | 1      | DCF              | A7    |                     | 05A                |                    |        |
| 10764         |        | XA521                           | 07  |      |        | XA522     | 07  |      |             | 168  | 9     | P     | XA00BDX  | 03     | TD10BB4  | 02   | 1      | DCF              | A1    |                     | 02B                | DEV REQ 0 TO IOC   |        |
| 17737         |        | XA521                           | 07  |      |        |           |     |      |             |      |       | J     | XA00BDX  | 01     | XA00BDX  | 00   | 1      | DCF              | A1    |                     | 02B                | TD10BB4 BUSS       |        |
| 17609         |        | XA521                           | 08  |      |        | XA523     | 22  |      |             | 168  | 9     |       | XAR20S   | 01     | XA02BOX  | 01   | 1      | DCF              | A6    |                     | 06A                |                    |        |
| 20599         |        | XA521                           | 09  |      |        |           |     |      |             |      |       | M     | XA00BOX  | 01     | XA00BOX  | 00   | 1      | DCF              | A2    |                     | 03B                |                    |        |
| 20603         |        | XA521                           | 10  |      |        |           |     |      |             |      |       | M     | XA02BOX  | 01     | XA02BOX  | 00   | 1      | DCF              | A6    |                     | 07A                |                    |        |
| 17565         |        | XA521                           | 11  |      |        | XA523     | 06  |      |             | 168  | 9     |       | XAR00S   | 01     | XA00BOX  | 01   | 1      | DCF              | A2    |                     | 04B                |                    |        |
| 00687         |        | XA521                           | 12  |      |        |           |     |      |             |      |       |       | +5V      | 01     |          |      |        | DCF              |       |                     | 08A                |                    |        |
| 17587         |        | XA521                           | 13  |      |        | XA523     | 01  |      |             | 168  | 9     |       | XAR10S   | 01     | XA01BOX  | 01   | 1      | DCF              | A4    |                     | 05B                |                    |        |
| 10825         |        | XA521                           | 14  |      |        | XA424     | 04  |      |             | 168  | 9     | P     | XA02BDX  | 10     | TD12BB4  | 02   | 1      | DCF              | A5    |                     | 08B                | DEV REQ 2 TO IOC   |        |
| 17763         |        | XA521                           | 14  |      |        |           |     |      |             |      |       | J     | XA02BDX  | 01     | XA02BDX  | 00   | 1      | DCF              | A5    |                     | 08B                | TD12BB4 BUSS       |        |
| 20601         |        | XA521                           | 15  |      |        |           |     |      |             |      |       | M     | XA01BOX  | 01     | XA01BOX  | 00   | 1      | DCF              | A4    |                     | 06B                |                    |        |
| 03252         |        | XA521                           | 16  |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 10798         |        | XA521                           | 17  |      |        | XA425     | 04  |      |             | 168  | 9     | P     | XA01BDX  | 10     | TD11BB4  | 02   | 1      | DCF              | A3    |                     | 07B                | DEV REQ 1 TO IOC   |        |
| 17750         |        | XA521                           | 17  |      |        |           |     |      |             |      |       | J     | XA01BDX  | 01     | XA01BDX  | 00   | 1      | DCF              | A3    |                     | 07B                | TD11BB4 BUSS       |        |
| 01572         |        | XA521                           | 18  |      |        |           |     |      |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 03271         |        | XA521                           | 19  |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 01573         |        | XA521                           | 20  |      |        |           |     |      |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 03294         |        | XA521                           | 21  |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 01574         |        | XA521                           | 22  |      |        |           |     |      |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 10960         |        | XA521                           | 23  |      |        | XA425     | 18  |      |             | 168  | 9     | P     | XA07BDX  | 10     | TD17BB4  | 02   | 1      | DCF              | B7    |                     | 10A                | DEV REQ 7 TO IOC   |        |
| 17828         |        | XA521                           | 23  |      |        |           |     |      |             |      |       | J     | XA07BDX  | 01     | XA07BDX  | 00   | 1      | DCF              | B7    |                     | 10A                | TD17BB4 BUSS       |        |
| 01575         |        | XA521                           | 24  |      |        |           |     |      |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 03275         |        | XA521                           | 25  |      |        |           |     |      |             |      |       |       | SPP      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 01576         |        | XA521                           | 26  |      |        |           |     |      |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 10873         |        | XA521                           | 27  |      |        | XA527     | 27  |      |             | 168  | 9     | P     | XA04BDX  | 04     | TD14BB4  | 02   | 1      | DCF              | B1    |                     | 10B                | DEV REQ 4 TO IOC   |        |
| 17789         |        | XA521                           | 27  |      |        |           |     |      |             |      |       | J     | XA04BDX  | 01     | XA04BDX  | 00   | 1      | DCF              | B1    |                     | 10B                | TD14BB4 BUSS       |        |
| 00688         |        | XA521                           | 28  |      |        |           |     |      |             |      |       |       | +5V      | 01     |          |      |        | DCF              |       |                     | 21B                |                    |        |
| 20607         |        | XA521                           | 29  |      |        |           |     |      |             |      |       | M     | XA04BOX  | 01     | XA04BOX  | 00   | 1      | DCF              | B2    |                     | 11B                |                    |        |
| CONNECTOR     | XA521  | CONTINUED ON THE NEXT PAGE **** |     |      |        |           |     |      |             |      |       |       |          |        |          |      |        |                  |       |                     |                    |                    |        |

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| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SPEC INST | SIGNAL  | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|-----------|---------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |           |         |        |          |      |      |                  |       |                     |                    |                    |        |
| 20613   |        | XA521     | 30  |        |           |     |             |      |       |       | M         | XA0780X | 01     | XA0780X  | 00   | 1    | DCF              | B8    |                     | 11A                |                    |        |
| 17653   |        | XA521     | 31  |        | XA523     | 38  |             |      | 16B   | 9     |           | XAR40S  | 01     | XA0480X  | 01   | 1    | DCF              | B2    |                     | 12B                |                    |        |
| 03039   |        | XA521     | 32  |        |           |     |             |      |       |       |           | GND     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 17678   |        | XA521     | 33  |        |           |     |             |      |       |       |           | XAR50S  | 04     | XA0580X  | 01   | 1    | DCF              | B4    |                     | 13B                |                    |        |
| 17718   |        | XA521     | 34  |        |           |     |             |      |       |       |           | XAR70S  | 03     | XA0780X  | 01   | 1    | DCF              | B8    |                     | 12A                |                    |        |
| 20609   |        | XA521     | 35  |        |           |     |             |      |       |       | M         | XA0580X | 01     | XA0580X  | 00   | 1    | DCF              | B4    |                     | 14B                |                    |        |
| 17458   |        | XA521     | 36  |        | XA523     | 74  |             |      | 16B   | 9     |           | XAC52A  | 02     | XA0480X  | 01   | 1    | DCF              | B1    |                     | 13A                |                    |        |
| 20579   |        | XA521     | 36  |        |           |     |             |      |       |       | M         | XAC52A  | 01     | XA0780X  | 01   | 1    | DCF              | B7    |                     | 13A                |                    |        |
| 20580   |        | XA521     | 36  |        |           |     |             |      |       |       | M         | XAC52A  | 01     | XA0680X  | 01   | 1    | DCF              | B5    |                     | 13A                |                    |        |
| 20581   |        | XA521     | 36  |        |           |     |             |      |       |       | M         | XAC52A  | 01     | XA0580X  | 01   | 1    | DCF              | B3    |                     | 13A                |                    |        |
| 10906   |        | XA521     | 37  |        | XA424     | 46  |             |      | 16B   | 9     |           | XA0580X | 10     | TDI5884  | 02   | 1    | DCF              | B3    |                     | 15B                | DEV REQ 5 TO IOC   |        |
| 17802   |        | XA521     | 37  |        |           |     |             |      |       |       | J         | XA0580X | 01     | XA0580X  | 00   | 1    | DCF              | B3    |                     | 15B                | TDI5884 BUSS       |        |
| 17696   |        | XA521     | 38  |        | XA523     | 52  |             |      | 16B   | 9     |           | XAR60S  | 01     | XA0680X  | 01   | 1    | DCF              | B6    |                     | 14A                |                    |        |
| 03299   |        | XA521     | 39  |        |           |     |             |      |       |       |           | SPP     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 20611   |        | XA521     | 40  |        |           |     |             |      |       |       | M         | XA0680X | 01     | XA0680X  | 00   | 1    | DCF              | B6    |                     | 15A                |                    |        |
| 10926   |        | XA521     | 41  |        | XA522     | 41  |             |      | 16B   | 9     |           | XA0680X | 03     | TDI6884  | 02   | 1    | DCF              | B5    |                     | 16A                | DEV REQ 6 TO IOC   |        |
| 17815   |        | XA521     | 41  |        |           |     |             |      |       |       | J         | XA0680X | 01     | XA0680X  | 00   | 1    | DCF              | B5    |                     | 16A                | TDI6884 BUSS       |        |
| 03311   |        | XA521     | 42  |        |           |     |             |      |       |       |           | SPP     | 01     |          |      |      | DCF              |       |                     | 20B                |                    |        |
| 08044   |        | XA521     | 43  |        |           |     |             |      |       |       |           | SPO     | 01     |          |      |      | DCF              | C7    |                     | 25A                |                    |        |
| 03341   |        | XA521     | 44  |        |           |     |             |      |       |       |           | GND     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 03322   |        | XA521     | 45  |        |           |     |             |      |       |       |           | SPP     | 01     |          |      |      | DCF              |       |                     | 27A                |                    |        |
| 10742   |        | XA521     | 46  |        | XA527     | 46  |             |      | 16B   | 9     |           | XA0PADX | 03     | TDIP884  | 01   | 1    | DCF              | C1    |                     | 25B                | IOC INPUT DATA LIN |        |
| 17725   |        | XA521     | 46  |        |           |     |             |      |       |       | J         | XA0PADX | 01     | XA0PADX  | 00   | 1    | DCF              | C1    |                     | 25B                | TDIP884 BUSS       |        |
| 20597   |        | XA521     | 47  |        |           |     |             |      |       |       | M         | XA0PAOX | 01     | XA0PAOX  | 00   | 1    | DCF              | C2    |                     | 26B                |                    |        |
| 08045   |        | XA521     | 48  |        |           |     |             |      |       |       |           | SPO     | 01     |          |      |      | DCF              | C8    |                     | 26A                |                    |        |
| 17728   |        | XA521     | 49  |        |           |     |             |      |       |       |           | XA0PCOX | 02     | XA0PAOX  | 01   | 1    | DCF              | C2    |                     | 27B                |                    |        |
| 06147   |        | XA521     | 50  |        |           |     |             |      |       |       |           | SPI041  | 34     |          |      |      | DCF              | C8    |                     | 28A                |                    |        |
| 17499   |        | XA521     | 51  |        |           |     |             |      |       |       |           | XAINCOX | 02     | XAINAOX  | 01   | 1    | DCF              | C4    |                     | 28B                |                    |        |
| 17441   |        | XA521     | 52  |        | XA523     | 51  |             |      | 16B   | 9     |           | XACSDA  | 01     | XA0PADX  | 01   | 1    | DCF              | C1    |                     | 29A                |                    |        |
| 20569   |        | XA521     | 52  |        |           |     |             |      |       |       | M         | XACSDA  | 01     | XAINADX  | 01   | 1    | DCF              | C3    |                     | 29A                |                    |        |
| 03345   |        | XA521     | 53  |        |           |     |             |      |       |       |           | SPP     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 06167   |        | XA521     | 54  |        | XA522     | 51  |             |      | 16B   | 9     |           | SPI042  | 20     |          |      |      | DCF              | C6    |                     | 30A                |                    |        |
| 13323   |        | XA521     | 55  |        | XA527     | 55  |             |      | 16B   | 9     |           | XAINADX | 03     | TIN0884  | 01   | 1    | DCF              | C3    |                     | 30B                | DEV INDICATOR TO   |        |
| 17496   |        | XA521     | 55  |        |           |     |             |      |       |       | J         | XAINADX | 01     | XAINADX  | 00   | 1    | DCF              | C3    |                     | 30B                | TIN0884 BUSS       |        |
| 20592   |        | XA521     | 56  |        |           |     |             |      |       |       | M         | XAINAOX | 01     | XAINAOX  | 00   | 1    | DCF              | C4    |                     | 29B                |                    |        |
| 08046   |        | XA521     | 57  |        |           |     |             |      |       |       |           | SPO     | 01     |          |      |      | DCF              | C6    |                     | 31A                |                    |        |
| 03364   |        | XA521     | 58  |        |           |     |             |      |       |       |           | GND     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 03368   |        | XA521     | 59  |        |           |     |             |      |       |       |           | SPP     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 08047   |        | XA521     | 60  |        |           |     |             |      |       |       |           | SPO     | 01     |          |      |      | DCF              | C5    |                     | 31B                |                    |        |
| 08048   |        | XA521     | 61  |        |           |     |             |      |       |       |           | SPO     | 01     |          |      |      | DCF              | D7    |                     | 33A                |                    |        |
| 01577   |        | XA521     | 62  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 01578   |        | XA521     | 63  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 01579   |        | XA521     | 64  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 08049   |        | XA521     | 65  |        |           |     |             |      |       |       |           | SPO     | 01     |          |      |      | DCF              | D1    |                     | 32B                |                    |        |
| 01580   |        | XA521     | 66  |        |           |     |             |      |       |       |           | DNW     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 03375   |        | XA521     | 67  |        |           |     |             |      |       |       |           | GND     | 01     |          |      |      | DCF              |       |                     |                    |                    |        |
| 08050   |        | XA521     | 68  |        |           |     |             |      |       |       |           | SPO     | 01     |          |      |      | DCF              | D8    |                     | 34A                |                    |        |
| 08051   |        | XA521     | 69  |        |           |     |             |      |       |       |           | SPO     | 01     |          |      |      | DCF              | D2    |                     | 33B                |                    |        |
| 05023   |        | XA521     | 70  |        |           |     |             |      |       |       |           | SPI005  | 20     |          |      |      | DCF              | D8    |                     | 35A                |                    |        |
| 06126   |        | XA521     | 71  |        | XA523     | 76  |             |      | 16B   | 9     |           | SPI041  | 13     |          |      |      | DCF              | D2    |                     | 34B                |                    |        |
| CONNECTOR (XA521) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |           |         |        |          |      |      |                  |       |                     |                    |                    |        |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA521  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 386

| RECORD NUMBER                                     | FROM   |           |     |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL | SFQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|--------|-----------|-----|----|-------------|------|-------|-------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | OR | PREFIX | CONNECTOR | PIN | OR | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 06166   |        | XA521     | 72  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 06011   |        | XA521     | 73  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 05643   |        | XA521     | 74  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 08052   |        | XA521     | 75  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 08053   |        | XA521     | 76  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03382   |        | XA521     | 77  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 08054   |        | XA521     | 78  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03391   |        | XA521     | 79  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 08055   |        | XA521     | 80  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10851   |        | XA522     | 01  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17775   |        | XA522     | 01  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03231   |        | XA522     | 02  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20604   |        | XA522     | 03  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17779   |        | XA522     | 04  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03248   |        | XA522     | 05  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17444   |        | XA522     | 06  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20570   |        | XA522     | 06  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20571   |        | XA522     | 06  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20572   |        | XA522     | 06  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10765   |        | XA522     | 07  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17736   |        | XA522     | 07  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17766   |        | XA522     | 08  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20598   |        | XA522     | 09  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20602   |        | XA522     | 10  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17740   |        | XA522     | 11  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00689   |        | XA522     | 12  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17753   |        | XA522     | 13  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10824   |        | XA522     | 14  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17762   |        | XA522     | 14  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20600   |        | XA522     | 15  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03253   |        | XA522     | 16  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10797   |        | XA522     | 17  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17749   |        | XA522     | 17  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01581   |        | XA522     | 18  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03270   |        | XA522     | 19  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01582   |        | XA522     | 20  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03293   |        | XA522     | 21  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01583   |        | XA522     | 22  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10959   |        | XA522     | 23  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17827   |        | XA522     | 23  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01584   |        | XA522     | 24  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 03276   |        | XA522     | 25  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 01585   |        | XA522     | 26  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 10872   |        | XA522     | 27  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17788   |        | XA522     | 27  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 00690   |        | XA522     | 28  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20606   |        | XA522     | 29  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 20612   |        | XA522     | 30  |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |
| CONNECTOR (XA522) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |    |             |      |       |       |        |        |          |      |        |                  |       |                     |                    |                    |        |

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DRAWING NUMBER 149019-880

CONNECTOR

UNIT ASSEMBLY NO. 149019

REV G

INDEX XA522

UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O

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| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO   | EQUATION | TERM    | FACTOR  | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO             |       |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|----------|----------|---------|---------|------------------|-------|---------------------|--------------------|--------------------|--------------------|-------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SIZE | MULTI GROUP | CODE | COLOR |        |          |          |         |         |                  |       |                     |                    |                    |                    | IDENT |
| 17792   |        | XA522     | 31  |        |           |     |      |             |      |       |        | XA04C0X  | 02       | XA04A0X | 01      | 1                | DCF   | B2                  | 12B                |                    |                    |       |
| 03040   |        | XA522     | 32  |        | XA520     | 29  |      |             | 16B  | 9     |        | GND      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 17805   |        | XA522     | 33  |        | XA520     | 35  |      |             | 16B  | 9     |        | XA05C0X  | 02       | XA05A0X | 01      | 1                | DCF   | B4                  | 13B                |                    |                    |       |
| 17831   |        | XA522     | 34  |        | XA524     | 47  |      |             | 16B  | 9     |        | XA07C0X  | 02       | XA07A0X | 01      | 1                | DCF   | B8                  | 12A                |                    |                    |       |
| 20608   |        | XA522     | 35  |        |           |     |      |             |      |       | M      | XA05A0X  | 01       | XA05A0X | 00      | 1                | DCF   | B4                  | 14B                |                    |                    |       |
| 17443   |        | XA522     | 36  |        | XA522     | 06  |      |             | 16B  | 9     |        | XACSDA   | 03       | XA04ADX | 01      | 1                | DCF   | B1                  | 13A                |                    |                    |       |
| 20573   |        | XA522     | 36  |        |           |     |      |             |      |       | M      | XACSDA   | 01       | XA05ADX | 01      | 1                | DCF   | B3                  | 13A                |                    |                    |       |
| 20574   |        | XA522     | 36  |        |           |     |      |             |      |       | M      | XACSDA   | 01       | XA07ADX | 01      | 1                | DCF   | B7                  | 13A                |                    |                    |       |
| 20575   |        | XA522     | 36  |        |           |     |      |             |      |       | M      | XACSDA   | 01       | XA06ADX | 01      | 1                | DCF   | B5                  | 13A                |                    |                    |       |
| 10905   |        | XA522     | 37  |        | XA521     | 37  |      |             | 16B  | 9     |        | P        | XA05ADX  | 09      | TDI5BB4 | 01               | 1     | DCF                 | B3                 | 15B                | IOC INPUT DATA LIN |       |
| 17801   |        | XA522     | 37  |        |           |     |      |             |      |       | J      | XA05ADX  | 01       | XA05ADX | 00      | 1                | DCF   | B3                  | 15B                | TDI5BB4            | BUSS               |       |
| 17818   |        | XA522     | 38  |        | XA520     | 40  |      |             | 16B  | 9     |        | J        | XA06C0X  | 02      | XA06A0X | 01               | 1     | DCF                 | B6                 | 14A                |                    |       |
| 03300   |        | XA522     | 39  |        |           |     |      |             |      |       |        | SPP      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 20610   |        | XA522     | 40  |        |           |     |      |             |      |       | M      | XA06A0X  | 01       | XA06A0X | 00      | 1                | DCF   | B6                  | 15A                |                    |                    |       |
| 10927   |        | XA522     | 41  |        | XA527     | 41  |      |             | 16B  | 9     |        | P        | XA06ADX  | 04      | TDI6BB4 | 01               | 1     | DCF                 | B5                 | 16A                | IOC INPUT DATA LIN |       |
| 17814   |        | XA522     | 41  |        |           |     |      |             |      |       | J      | XA06ADX  | 01       | XA06ADX | 00      | 1                | DCF   | B5                  | 16A                | TDI6BB4            | BUSS               |       |
| 03312   |        | XA522     | 42  |        |           |     |      |             |      |       |        | SPP      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 08056   |        | XA522     | 43  |        |           |     |      |             |      |       |        | SPO      | 01       |         |         |                  | DCF   | C7                  |                    | 20B                |                    |       |
| 03340   |        | XA522     | 44  |        |           |     |      |             |      |       |        | GND      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 03323   |        | XA522     | 45  |        |           |     |      |             |      |       |        | SPP      | 01       |         |         |                  | DCF   |                     |                    | 27A                |                    |       |
| 15336   |        | XA522     | 46  |        |           |     |      |             |      |       | P      | XAREADX  | 03       | TRQ1BB4 | 01      | 1                | DCF   | C1                  | 25B                | IOE REQ TO IOC     |                    |       |
| 17532   |        | XA522     | 46  |        |           |     |      |             |      |       | J      | XAREADX  | 01       | XAREADX | 00      | 1                | DCF   | C1                  | 25B                | TRQ1BB4            | BUSS               |       |
| 20593   |        | XA522     | 47  |        |           |     |      |             |      |       | M      | XAREAOX  | 01       | XAREAOX | 00      | 1                | DCF   | C2                  | 26B                |                    |                    |       |
| 08057   |        | XA522     | 48  |        |           |     |      |             |      |       |        | SPO      | 01       |         |         |                  | DCF   | C8                  | 26A                |                    |                    |       |
| 17533   |        | XA522     | 49  |        | XA523     | 39  |      |             | 16B  | 9     |        | XARECO   | 01       | XAREAOX | 01      | 1                | DCF   | C2                  | 27B                |                    |                    |       |
| 06010   |        | XA522     | 50  |        | XA521     | 73  |      |             | 16B  | 9     |        | SPI037   | 28       |         |         |                  | DCF   | C8                  | 28A                |                    |                    |       |
| 06168   |        | XA522     | 51  |        | XA523     | 61  |      |             | 16B  | 9     |        | SPI042   | 21       |         |         |                  | DCF   | C4                  | 28B                |                    |                    |       |
| 17482   |        | XA522     | 52  |        | XA525     | 19  |      |             | 16B  | 9     |        | XAGNDA   | 06       | XAREADX | 01      | 1                | DCF   | C1                  | 29A                |                    |                    |       |
| 03346   |        | XA522     | 53  |        |           |     |      |             |      |       |        | SPP      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 06146   |        | XA522     | 54  |        | XA521     | 50  |      |             | 16B  | 9     |        | SPI041   | 33       |         |         |                  | DCF   | C6                  | 30A                |                    |                    |       |
| 08058   |        | XA522     | 55  |        |           |     |      |             |      |       |        | SPO      | 01       |         |         |                  | DCF   | C3                  | 30B                |                    |                    |       |
| 08059   |        | XA522     | 56  |        |           |     |      |             |      |       |        | SPO      | 01       |         |         |                  | DCF   | C4                  | 29B                |                    |                    |       |
| 08060   |        | XA522     | 57  |        |           |     |      |             |      |       |        | SPO      | 01       |         |         |                  | DCF   | C6                  | 31A                |                    |                    |       |
| 03363   |        | XA522     | 58  |        |           |     |      |             |      |       |        | GND      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 17476   |        | XA522     | 59  |        |           |     |      |             |      |       |        | XAENDB4R | 02       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 08061   |        | XA522     | 60  |        |           |     |      |             |      |       |        | SPO      | 01       |         |         |                  | DCF   | C5                  | 31B                |                    |                    |       |
| 17469   |        | XA522     | 61  |        |           |     |      |             |      |       | J      | XAENC0X  | 01       | XAENC0X | 00      | 1                | DCF   | D7                  | 33A                | XAENDB4            | BUSS               |       |
| 17472   |        | XA522     | 61  |        | XA519     | 39  |      |             | 16B  | 9     |        | P        | XAENC0X  | 01      | XAENDB4 | 01               | 1     | DCF                 | D7                 | 33A                | DEV ENABLE LINE    |       |
| 01586   |        | XA522     | 62  |        |           |     |      |             |      |       |        | DNW      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 01587   |        | XA522     | 63  |        |           |     |      |             |      |       |        | DNW      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 01588   |        | XA522     | 64  |        |           |     |      |             |      |       |        | DNW      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 17701   |        | XA522     | 65  |        |           |     |      |             |      |       | J      | XAR7C0X  | 01       | XAR7C0X | 00      | 1                | DCF   | D1                  | 32B                | XAR7DB4            | BUSS               |       |
| 17706   |        | XA522     | 65  |        | XA519     | 46  |      |             | 16B  | 9     |        | P        | XAR7C0X  | 01      | XAR7DB4 | 01               | 1     | DCF                 | D1                 | 32B                |                    |       |
| 01589   |        | XA522     | 66  |        |           |     |      |             |      |       |        | DNW      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 17710   |        | XA522     | 67  |        |           |     |      |             |      |       |        | XAR7DB4R | 02       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 21299   |        | XA522     | 67  |        |           |     |      |             |      |       |        | GND      | 01       |         |         |                  | DCF   |                     |                    |                    |                    |       |
| 20591   |        | XA522     | 68  |        |           |     |      |             |      |       | M      | XAENC0X  | 01       | XAENC0X | 00      | 1                | DCF   | D8                  | 34A                |                    |                    |       |
| 17702   |        | XA522     | 69  |        | XA525     | 47  |      |             | 16B  | 9     |        | XAR7C0X  | 01       | XAR7C0X | 00      | 1                | DCF   | D2                  | 33B                | DEV REQ REC 7      |                    |       |
| 17464   |        | XA522     | 70  |        | XA524     | 63  |      |             | 16B  | 9     |        | XAENAO   | 01       | XAENC0X | 01      | 1                | DCF   | D8                  | 35A                |                    |                    |       |
| 17478   |        | XA522     | 71  |        | XA520     | 51  |      |             | 16B  | 9     |        | XAGNDA   | 02       | XAR7C0X | 01      | 1                | DCF   | D2                  | 34B                |                    |                    |       |
| CONNECTOR (XA522) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |          |          |         |         |                  |       |                     |                    |                    |                    |       |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA522  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 388

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST. ASSC | SIGNAL  | SEQ NO  | EQUATION | TERM | FACT | CRT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO            |  |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|----------------|---------|---------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|-------------------|--|
|               | PREFIX | CONNECTOR | PIN                             | INFO | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR | IDENT |                |         |         |          |      |      |                  |       |                     |                    |                    |                   |  |
| 17719         | XA522  | 72        |                                 |      | XA524  | 60        |     |      |             | 16B  | 9     |       | XASTBA         | 01      | XAR7CDX | 01       | 1    | DCF  | 01               |       |                     | 36A                |                    |                   |  |
| 20594         | XA522  | 72        |                                 |      |        |           |     |      |             |      |       | M     | XASTBA         | 01      | XACMCDX | 01       | 1    | DCF  | 05               |       |                     |                    | 36A                |                   |  |
| 20595         | XA522  | 72        |                                 |      |        |           |     |      |             |      |       | M     | XASTBA         | 01      | XAENCDX | 01       | 1    | DCF  | 07               |       |                     |                    | 36A                |                   |  |
| 20596         | XA522  | 72        |                                 |      |        |           |     |      |             |      |       | M     | XASTBA         | 01      | XAINCDX | 01       | 1    | DCF  | 03               |       |                     |                    | 36A                |                   |  |
| 17477         | XA522  | 73        |                                 |      | XA522  | 71        |     |      |             | 16B  | 9     |       | XAGNDA         | 01      | XAINCDX | 01       | 1    | DCF  | 04               |       |                     |                    | 35B                |                   |  |
| 17426         | XA522  | 74        |                                 |      | XA524  | 75        |     |      |             | 16B  | 9     |       | XACMAO         | 01      | XACMCDX | 01       | 1    | DCF  | 06               |       |                     |                    | 37A                |                   |  |
| 17498         | XA522  | 75        |                                 |      | XA521  | 51        |     |      |             | 16B  | 9     |       | XAINCOX        | 01      | XAINCOX | 00       | 1    | DCF  | 04               |       |                     |                    | 36B                | DEV INDICATOR REC |  |
| 20568         | XA522  | 76        |                                 |      |        |           |     |      |             |      |       | M     | XACMCOX        | 01      | XACMCOX | 00       | 1    | DCF  | 06               |       |                     |                    | 38A                |                   |  |
| 17506         | XA522  | 77        |                                 |      |        |           |     |      |             |      |       | J     | XAINDB4R       | 02      |         |          |      | DCF  |                  |       |                     |                    |                    |                   |  |
| 17497         | XA522  | 78        |                                 |      |        |           |     |      |             |      |       | J     | XAINCDX        | 01      | XAINCDX | 00       | 1    | DCF  | 03               |       |                     |                    | 37B                | XAINDB4 BUSS      |  |
| 17502         | XA522  | 78        |                                 |      | XA519  | 35        |     |      |             | 16B  | 9     |       | XAINCDX        | 01      | XAINDB4 | 01       | 1    | DCF  | 03               |       |                     |                    | 37B                |                   |  |
| 17435         | XA522  | 79        |                                 |      |        |           |     |      |             |      |       | P     | XACMDB4R       | 02      |         |          |      | DCF  |                  |       |                     |                    | 40B                |                   |  |
| 17428         | XA522  | 80        |                                 |      |        |           |     |      |             |      |       | J     | XACMCDX        | 01      | XACMCDX | 00       | 1    | DCF  | 05               |       |                     |                    | 38B                | XACMDB4 BUSS      |  |
| 17431         | XA522  | 80        |                                 |      | XA519  | 37        |     |      |             | 16B  | 9     |       | P              | XACMCDX | 01      | XACMDB4  | 00   | 1    | DCF              | 05    |                     |                    | 38B                | DEV COMMAND LINE  |  |
| 17588         | XA523  | 01        |                                 |      | XA524  | 01        |     |      |             | 16B  | 9     |       | XAR10S         | 02      | XAR10R  | 01       | 1    | TT3  | A2               |       |                     |                    | 02B                |                   |  |
| 03041         | XA523  | 02        |                                 |      |        |           |     |      |             |      |       |       | GND            | 01      |         |          |      | TT3  |                  |       |                     |                    | 01B                |                   |  |
| 17581         | XA523  | 03        |                                 |      | XA524  | 15        |     |      |             | 16B  | 9     |       | XAR1RA         | 01      | XAR10R  | 01       | 2    | TT3  | A2               |       |                     |                    | 02A                |                   |  |
| 17564         | XA523  | 04        |                                 |      |        |           |     |      |             |      |       |       | XAR00R         | 02      | XAR00R  | 00       | 1    | TT3  | A1               |       |                     |                    | 04A                |                   |  |
| 17517         | XA523  | 05        |                                 |      | XA523  | 10        |     |      |             | 16B  | 9     |       | XAMRCA         | 01      | XAR10R  | 01       | 3    | TT3  | A2               |       |                     |                    | 03B                |                   |  |
| 17566         | XA523  | 06        |                                 |      | XA524  | 06        |     |      |             | 16B  | 9     |       | XAR00S         | 02      | XAR00R  | 01       | 1    | TT3  | A1               |       |                     |                    | 05A                |                   |  |
| 17586         | XA523  | 07        |                                 |      |        |           |     |      |             |      |       |       | XAR10R         | 02      | XAR10R  | 00       | 1    | TT3  | A2               |       |                     |                    | 03A                |                   |  |
| 17559         | XA523  | 08        |                                 |      | XA524  | 09        |     |      |             | 16B  | 9     |       | XAR0RA         | 01      | XAR00R  | 01       | 2    | TT3  | A1               |       |                     |                    | 06A                |                   |  |
| 17562         | XA523  | 09        |                                 |      |        |           |     |      |             |      |       |       | XAR3JA         | 02      | XARE10  | 01       | 1    | TT3  | A3               |       |                     |                    | 04B                |                   |  |
| 17518         | XA523  | 10        |                                 |      | XA523  | 18        |     |      |             | 16B  | 9     |       | XAMRCA         | 02      | XAR00R  | 01       | 3    | TT3  | A1               |       |                     |                    | 07A                |                   |  |
| 17584         | XA523  | 11        |                                 |      |        |           |     |      |             |      |       |       | XAR10A         | 02      | XARE10  | 01       | 2    | TT3  | A3               |       |                     |                    | 05B                |                   |  |
| 00691         | XA523  | 12        |                                 |      |        |           |     |      |             |      |       |       | +5V            | 01      |         |          |      | TT3  |                  |       |                     |                    |                    |                   |  |
| 17606         | XA523  | 13        |                                 |      |        |           |     |      |             |      |       |       | XAR20A         | 02      | XARE10  | 01       | 3    | TT3  | A3               |       |                     |                    | 06B                |                   |  |
| 17632         | XA523  | 14        |                                 |      | XA524  | 14        |     |      |             | 16B  | 9     |       | XAR30S         | 02      | XAR30R  | 01       | 1    | TT3  | B2               |       |                     |                    | 09A                |                   |  |
| 17537         | XA523  | 15        |                                 |      | XA525  | 27        |     |      |             | 16B  | 9     |       | XARE10         | 01      | XARE10  | 00       | 1    | TT3  | A3               |       |                     |                    | 07B                | DEV REQ 0+1+2     |  |
| 03042         | XA523  | 16        |                                 |      |        |           |     |      |             |      |       |       | GND            | 01      |         |          |      | TT3  |                  |       |                     |                    | 21B                |                   |  |
| 17625         | XA523  | 17        |                                 |      | XA524  | 27        |     |      |             | 16B  | 9     |       | XAR3RA         | 01      | XAR30R  | 01       | 2    | TT3  | B2               |       |                     |                    | 08B                |                   |  |
| 17519         | XA523  | 18        |                                 |      | XA523  | 26        |     |      |             | 16B  | 9     |       | XAMRCA         | 03      | XAR30R  | 01       | 3    | TT3  | B2               |       |                     |                    | 10A                |                   |  |
| 17630         | XA523  | 19        |                                 |      |        |           |     |      |             |      |       |       | XAR30R         | 02      | XAR30R  | 00       | 1    | TT3  | B2               |       |                     |                    | 09B                |                   |  |
| 17608         | XA523  | 20        |                                 |      |        |           |     |      |             |      |       |       | XAR20R         | 02      | XAR20R  | 00       | 1    | TT3  | B1               |       |                     |                    | 11A                |                   |  |
| 17628         | XA523  | 21        |                                 |      |        |           |     |      |             |      |       |       | XAR3JA         | 02      | XARE20  | 01       | 1    | TT3  | B3               |       |                     |                    | 10B                |                   |  |
| 17610         | XA523  | 22        |                                 |      | XA524  | 22        |     |      |             | 16B  | 9     |       | XAR20S         | 02      | XAR20R  | 01       | 1    | TT3  | B1               |       |                     |                    | 12A                |                   |  |
| 17650         | XA523  | 23        |                                 |      |        |           |     |      |             |      |       |       | XAR40A         | 02      | XARE20  | 01       | 2    | TT3  | B3               |       |                     |                    | 11B                |                   |  |
| 17603         | XA523  | 24        |                                 |      | XA524  | 21        |     |      |             | 16B  | 9     |       | XAR2RA         | 01      | XAR20R  | 01       | 2    | TT3  | B1               |       |                     |                    | 13A                |                   |  |
| 17672         | XA523  | 25        |                                 |      |        |           |     |      |             |      |       |       | XAR50A         | 02      | XARE20  | 01       | 3    | TT3  | B3               |       |                     |                    | 12B                |                   |  |
| 17520         | XA523  | 26        |                                 |      | XA523  | 34        |     |      |             | 16B  | 9     |       | XAMRCA         | 04      | XAR20R  | 01       | 3    | TT3  | B1               |       |                     |                    | 14A                |                   |  |
| 17541         | XA523  | 27        |                                 |      | XA525  | 33        |     |      |             | 16B  | 9     |       | XARE20         | 01      | XARE20  | 00       | 1    | TT3  | B3               |       |                     |                    | 13B                | DEV REQ 3+4+5     |  |
| 00692         | XA523  | 28        |                                 |      |        |           |     |      |             |      |       |       | +5V            | 01      |         |          |      | TT3  |                  |       |                     |                    |                    |                   |  |
| 17677         | XA523  | 29        |                                 |      | XA521  | 33        |     |      |             | 16B  | 9     |       | XAR50S         | 03      | XAR50R  | 01       | 1    | TT3  | C2               |       |                     |                    | 14B                |                   |  |
| 17669         | XA523  | 30        |                                 |      | XA524  | 39        |     |      |             | 16B  | 9     |       | XAR5RA         | 01      | XAR50R  | 01       | 2    | TT3  | C2               |       |                     |                    | 15A                |                   |  |
| 17674         | XA523  | 31        |                                 |      |        |           |     |      |             |      |       |       | XAR50R         | 02      | XAR50R  | 00       | 1    | TT3  | C2               |       |                     |                    | 15B                |                   |  |
| 03043         | XA523  | 32        |                                 |      |        |           |     |      |             |      |       |       | GND            | 01      |         |          |      | TT3  |                  |       |                     |                    | 27A                |                   |  |
| 17536         | XA523  | 33        |                                 |      |        |           |     |      |             |      |       |       | XARE1A         | 02      | XARECO  | 01       | 1    | TT3  | C3               |       |                     |                    | 16B                |                   |  |
| 17521         | XA523  | 34        |                                 |      | XA523  | 42        |     |      |             | 16B  | 9     |       | XAMRCA         | 05      | XAR50R  | 01       | 3    | TT3  | C2               |       |                     |                    | 16A                |                   |  |
| CONNECTOR     |        | XA523     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |                |         |         |          |      |      |                  |       |                     |                    |                    |                   |  |



TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA523  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 389

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE        |      |       |       | SFC INST. MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------------|------|-------|-------|----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PCB | PREFIX | CONNECTOR | PIN | PCB | MULTI GROUP | CODE | COLOR | IDENT |                |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 17540         |        | XA523     | 35                              |     |        |           |     |     |             |      |       |       | XARE2A         | 02     | XARECO | 01       | 2    | TT3    | C3               |       | 17B                 |                    |                    |        |
| 17652         |        | XA523     | 36                              |     |        |           |     |     |             |      |       |       | XAR40R         | 02     | XAR40R | 00       | 1    | TT3    | C1               |       | 17A                 |                    |                    |        |
| 17544         |        | XA523     | 37                              |     |        |           |     |     |             |      |       |       | XARE3A         | 02     | XARECO | 01       | 3    | TT3    | C3               |       | 18B                 |                    |                    |        |
| 17654         |        | XA523     | 38                              |     | XA524  | 38        |     |     | 16B         | 9    |       |       | XAR40S         | 02     | XAR40R | 01       | 1    | TT3    | C1               |       | 18A                 |                    |                    |        |
| 17534         |        | XA523     | 39                              |     |        |           |     |     |             |      |       |       | XARECO         | 02     | XARECO | 00       | 1    | TT3    | C3               |       | 19B                 | DEV GR D REQ       |                    |        |
| 17647         |        | XA523     | 40                              |     | XA524  | 33        |     |     | 16B         | 9    |       |       | XAR4RA         | 01     | XAR40R | 01       | 2    | TT3    | C1               |       | 19A                 |                    |                    |        |
| 17717         |        | XA523     | 41                              |     | XA521  | 34        |     |     | 16B         | 9    |       |       | XAR70S         | 02     | XAR70R | 01       | 1    | TT3    | D2               |       | 22B                 |                    |                    |        |
| 17522         |        | XA523     | 42                              |     | XA523  | 48        |     |     | 16B         | 9    |       |       | XAMRCA         | 06     | XAR40R | 01       | 3    | TT3    | C1               |       | 20A                 |                    |                    |        |
| 17713         |        | XA523     | 43                              |     | XA524  | 50        |     |     | 16B         | 9    |       |       | XAR70R         | 01     | XAR70R | 00       | 1    | TT3    | D2               |       | 23B                 |                    |                    |        |
| 03044         |        | XA523     | 44                              |     |        |           |     |     |             |      |       |       | GND            | 01     |        |          |      | TT3    |                  |       | 40A                 |                    |                    |        |
| 17495         |        | XA523     | 45                              |     |        |           |     |     |             |      |       |       | XAICSO         | 06     | XACSDA | 01       | 1    | TT3    | D3               |       | 24B                 |                    |                    |        |
| 17712         |        | XA523     | 46                              |     |        |           |     |     |             |      |       |       | XAR7RA         | 02     | XAR70R | 01       | 2    | TT3    | D2               |       | 21A                 |                    |                    |        |
| 17489         |        | XA523     | 47                              |     |        |           |     |     |             |      |       |       | XAICRO         | 06     | XACSDA | 01       | 2    | TT3    | D3               |       | 25B                 |                    |                    |        |
| 17523         |        | XA523     | 48                              |     | XA523  | 56        |     |     | 16B         | 9    |       |       | XAMRCA         | 07     | XAR70R | 01       | 3    | TT3    | D2               |       | 22A                 |                    |                    |        |
| 17508         |        | XA523     | 49                              |     |        |           |     |     |             |      |       |       | XAINTA         | 02     | XACSDA | 01       | 3    | TT3    | D3               |       | 26B                 |                    |                    |        |
| 17695         |        | XA523     | 50                              |     |        |           |     |     |             |      |       |       | XAR60R         | 03     | XAR60P | 00       | 1    | TT3    | D1               |       | 23A                 |                    |                    |        |
| 17442         |        | XA523     | 51                              |     | XA522  | 36        |     |     | 16B         | 9    |       |       | XACSDA         | 02     | XACSDA | 00       | 1    | TT3    | D3               |       | 27B                 | CH.SEL.INTER*      |                    |        |
| 17697         |        | XA523     | 52                              |     | XA524  | 52        |     |     | 16B         | 9    |       |       | XAR60S         | 02     | XAR60R | 01       | 1    | TT3    | D1               |       | 24A                 |                    |                    |        |
| 17494         |        | XA523     | 53                              |     | XA523  | 45        |     |     | 16B         | 9    |       |       | XAICSO         | 05     | XACSEA | 01       | 1    | TT3    | E2               |       | 28B                 |                    |                    |        |
| 17691         |        | XA523     | 54                              |     | XA524  | 45        |     |     | 16B         | 9    |       |       | XAR6RA         | 01     | XAR60R | 01       | 2    | TT3    | D1               |       | 25A                 |                    |                    |        |
| 17447         |        | XA523     | 55                              |     |        |           |     |     |             |      |       |       | XACSEA         | 03     | XACSEA | 00       | 1    | TT3    | E2               |       | 29B                 | CH SEL ENABLE      |                    |        |
| 17524         |        | XA523     | 56                              |     | XA524  | 72        |     |     | 16B         | 9    |       |       | XAMKCA         | 08     | XAR60R | 01       | 3    | TT3    | D1               |       | 26A                 |                    |                    |        |
| 17467         |        | XA523     | 57                              |     | XA523  | 62        |     |     | 16B         | 9    |       |       | XAENB0         | 02     | XAMRDA | 01       | 1    | TT3    | E3               |       | 30B                 |                    |                    |        |
| 03045         |        | XA523     | 58                              |     |        |           |     |     |             |      |       |       | GND            | 01     |        |          |      | TT3    |                  |       | 40B                 |                    |                    |        |
| 17437         |        | XA523     | 59                              |     | XA525  | 68        |     |     | 16B         | 9    |       |       | XACMDO         | 02     | XAMKDA | 01       | 2    | TT3    | E3               |       | 31B                 |                    |                    |        |
| 17487         |        | XA523     | 60                              |     | XA525  | 63        |     |     | 16B         | 9    |       |       | XAICRO         | 04     | XACSEA | 01       | 2    | TT3    | E2               |       | 28A                 |                    |                    |        |
| 06169         |        | XA523     | 61                              |     | XA523  | 69        |     |     | 16B         | 9    |       |       | SPI042         | 22     | XAMRDA | 01       | 3    | TT3    | E3               |       | 32B                 |                    |                    |        |
| 17468         |        | XA523     | 62                              |     |        |           |     |     |             |      |       |       | XAENB0         | 03     | XACSEA | 01       | 3    | TT3    | E2               |       | 29A                 |                    |                    |        |
| 17527         |        | XA523     | 63                              |     | XA524  | 61        |     |     | 16B         | 9    |       |       | XAMPDA         | 02     | XAMRDA | 00       | 1    | TT3    | E3               |       | 33B                 | DEV RESET          |                    |        |
| 17463         |        | XA523     | 64                              |     |        |           |     |     |             |      |       |       | XACSSA         | 04     | XACSSA | 00       | 1    | TT3    | E1               |       | 30A                 | CH SEL STROBE      |                    |        |
| 17492         |        | XA523     | 65                              |     | XA523  | 75        |     |     | 16B         | 9    |       |       | XAICSO         | 03     | XACSTA | 01       | 1    | TT3    | F2               |       | 34B                 |                    |                    |        |
| 17491         |        | XA523     | 66                              |     | XA523  | 65        |     |     | 16B         | 9    |       |       | XAICSO         | 02     | XACSSA | 01       | 1    | TT3    | E1               |       | 31A                 |                    |                    |        |
| 03046         |        | XA523     | 67                              |     |        |           |     |     |             |      |       |       | GND            | 01     |        |          |      | TT3    |                  |       |                     |                    |                    |        |
| 17486         |        | XA523     | 68                              |     | XA523  | 60        |     |     | 16B         | 9    |       |       | XAICRO         | 03     | XACSSA | 01       | 2    | TT3    | E1               |       | 32A                 |                    |                    |        |
| 06170         |        | XA523     | 69                              |     | XA525  | 74        |     |     | 16B         | 9    |       |       | SPI042         | 23     |        | 01       | 1    | TT3    | F3               |       | 35A                 |                    |                    |        |
| 17722         |        | XA523     | 70                              |     | XA524  | 64        |     |     | 16B         | 9    |       |       | XASTB0         | 02     | XACSSA | 01       | 3    | TT3    | E1               |       | 33A                 |                    |                    |        |
| 17485         |        | XA523     | 71                              |     | XA523  | 68        |     |     | 16B         | 9    |       |       | XAICRO         | 02     | XACSTA | 01       | 2    | TT3    | F2               |       | 36A                 |                    |                    |        |
| 17511         |        | XA523     | 72                              |     |        |           |     |     |             |      |       |       | XAINT0         | 03     | XACSTA | 01       | 3    | TT3    | F2               |       | 34A                 |                    |                    |        |
| 17440         |        | XA523     | 73                              |     |        |           |     |     |             |      |       |       | XACSCA         | 02     | XACSCA | 00       | 1    | TT3    | F1               |       | 36B                 |                    |                    |        |
| 17459         |        | XA523     | 74                              |     |        |           |     |     |             |      |       |       | XACSTA         | 03     | XACSTA | 00       | 1    | TT3    | F2               |       | 35B                 | CH.SEL INTER       |                    |        |
| 17493         |        | XA523     | 75                              |     | XA523  | 53        |     |     | 16B         | 9    |       |       | XAICSO         | 04     | XACSCA | 01       | 1    | TT3    | F1               |       | 37B                 |                    |                    |        |
| 06127         |        | XA523     | 76                              |     | XA524  | 78        |     |     | 16B         | 9    |       |       | SPI041         | 14     |        | 01       | 2    | TT3    | F3               |       | 37A                 |                    |                    |        |
| 17484         |        | XA523     | 77                              |     | XA523  | 71        |     |     | 16B         | 9    |       |       | XAICRO         | 01     | XACSCA | 01       | 2    | TT3    | F1               |       | 38B                 |                    |                    |        |
| 06012         |        | XA523     | 78                              |     | XA516  | 69        |     |     | 16B         | 9    |       |       | SPI037         | 30     |        | 01       | 3    | TT3    | F3               |       | 38A                 |                    |                    |        |
| 17436         |        | XA523     | 79                              |     | XA523  | 59        |     |     | 16B         | 9    |       |       | XACMDO         | 01     | XACSCA | 01       | 3    | TT3    | F1               |       | 39B                 |                    |                    |        |
| 08062         |        | XA523     | 80                              |     |        |           |     |     |             |      |       |       | SPO            | 01     |        | 00       | 1    | TT3    | F3               |       | 39A                 |                    |                    |        |
| 17589         |        | XA524     | 01                              |     | XA525  | 05        |     |     | 16B         | 9    |       |       | XAR10S         | 03     | XAR10S | 00       | 1    | TQ2    | A2               |       | 02B                 | DEV REQ 1          |                    |        |
| 03047         |        | XA524     | 02                              |     |        |           |     |     |             |      |       |       | GND            | 01     |        |          |      | TQ2    |                  |       | 01A                 |                    |                    |        |
| CONNECTOR     |        | XA524     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |             |      |       |       |                |        |        |          |      |        |                  |       |                     |                    |                    |        |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA524  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 009-03-82 PAGE 390

| RECORD NUMBER                                     | FROM   |           |     |    | TO     |           |     |     | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|--------|-----------|-----|-----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | IN | PREFIX | CONNECTOR | PIN | OUT | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 17741   |        | XA524     | 03  |    |        |           |     |     |             |      |       |       | XA00COX | 03     | XAR0RA   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 17569   |        | XA524     | 04  |    |        | XA525     | 08  |     |             | 16B  | 9     |       | XAR1CA  | 01     | XAR10S   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 17585   |        | XA524     | 05  |    |        | XA523     | 07  |     |             | 16B  | 9     |       | XAR10R  | 01     | XAR10S   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 17567   |        | XA524     | 06  |    |        | XA525     | 04  |     |             | 16B  | 9     |       | XAR00S  | 03     | XAR00S   | 00   | 1      | TQ2              | A1    |                     | 05A                | DEV REQ 0          |        |
| 17448   |        | XA524     | 07  |    |        | XA524     | 13  |     |             | 16B  | 9     |       | XACSE0  | 01     | XAR0RA   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 17548   |        | XA524     | 08  |    |        |           |     |     |             |      |       |       | XAR0CA  | 02     | XAR00S   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 17560   |        | XA524     | 09  |    |        |           |     |     |             |      |       |       | XAR0RA  | 02     | XAR0RA   | 00   | 1      | TQ2              | A3    |                     | 04B                |                    |        |
| 17563   |        | XA524     | 10  |    |        | XA523     | 04  |     |             | 16B  | 9     |       | XAR00R  | 01     | XAR00S   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 17752   |        | XA524     | 11  |    |        | XA522     | 13  |     |             | 16B  | 9     |       | XA01COX | 01     | XAR1RA   | 01   | 1      | TQ2              | A4    |                     | 05B                |                    |        |
| 00693   |        | XA524     | 12  |    |        |           |     |     |             |      |       |       | +5V     | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 17449   |        | XA524     | 13  |    |        | XA524     | 19  |     |             | 16B  | 9     |       | XACSE0  | 02     | XAR1RA   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 17633   |        | XA524     | 14  |    |        | XA525     | 17  |     |             | 16B  | 9     |       | XAR30S  | 03     | XAR30S   | 00   | 1      | TQ2              | B2    |                     | 09A                | DEV REQ 3          |        |
| 17582   |        | XA524     | 15  |    |        |           |     |     |             |      |       |       | XAR1RA  | 02     | XAR1RA   | 00   | 1      | TQ2              | A4    |                     | 07B                |                    |        |
| 03048   |        | XA524     | 16  |    |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | TQ2              |       |                     | 01B                |                    |        |
| 17767   |        | XA524     | 17  |    |        |           |     |     |             |      |       |       | XA02COX | 03     | XAR2RA   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 17613   |        | XA524     | 18  |    |        | XA525     | 25  |     |             | 16B  | 9     |       | XAR3CA  | 01     | XAR30S   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 17450   |        | XA524     | 19  |    |        | XA524     | 25  |     |             | 16B  | 9     |       | XACSE0  | 03     | XAR2RA   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 17629   |        | XA524     | 20  |    |        | XA523     | 19  |     |             | 16B  | 9     |       | XAR30R  | 01     | XAR30S   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 17604   |        | XA524     | 21  |    |        |           |     |     |             |      |       |       | XAR2RA  | 02     | XAR2RA   | 00   | 1      | TQ2              | B3    |                     | 10B                |                    |        |
| 17611   |        | XA524     | 22  |    |        | XA525     | 20  |     |             | 16B  | 9     |       | XAR20S  | 03     | XAR20S   | 00   | 1      | TQ2              | B1    |                     | 12A                | DEV REQ 2          |        |
| 17780   |        | XA524     | 23  |    |        |           |     |     |             |      |       |       | XA03COX | 03     | XAR3RA   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 17592   |        | XA524     | 24  |    |        |           |     |     |             |      |       |       | XAR2CA  | 02     | XAR20S   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 17451   |        | XA524     | 25  |    |        | XA524     | 31  |     |             | 16B  | 9     |       | XACSE0  | 04     | XAR3RA   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 17607   |        | XA524     | 26  |    |        | XA523     | 20  |     |             | 16B  | 9     |       | XAR20R  | 01     | XAR20S   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 17626   |        | XA524     | 27  |    |        |           |     |     |             |      |       |       | XAR3RA  | 02     | XAR3RA   | 00   | 1      | TQ2              | B4    |                     | 13B                |                    |        |
| 00694   |        | XA524     | 28  |    |        |           |     |     |             |      |       |       | +5V     | 01     |          |      |        | TQ2              |       |                     |                    |                    |        |
| 17791   |        | XA524     | 29  |    |        | XA522     | 31  |     |             | 16B  | 9     |       | XA04COX | 01     | XAR4RA   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 17676   |        | XA524     | 30  |    |        | XA523     | 29  |     |             | 16B  | 9     |       | XAR50S  | 02     | XAR50S   | 00   | 1      | TQ2              | C2    |                     | 15A                | DEV REQ 5          |        |
| 17452   |        | XA524     | 31  |    |        | XA524     | 37  |     |             | 16B  | 9     |       | XACSE0  | 05     | XAR4RA   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 03049   |        | XA524     | 32  |    |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | TQ2              |       |                     | 20B                |                    |        |
| 17648   |        | XA524     | 33  |    |        |           |     |     |             |      |       |       | XAR4RA  | 02     | XAR4RA   | 00   | 1      | TQ2              | C3    |                     | 16B                |                    |        |
| 17657   |        | XA524     | 34  |    |        | XA525     | 37  |     |             | 16B  | 9     |       | XAR5CA  | 01     | XAR50S   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 17804   |        | XA524     | 35  |    |        | XA522     | 33  |     |             | 16B  | 9     |       | XA05COX | 01     | XAR5RA   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 17673   |        | XA524     | 36  |    |        | XA523     | 31  |     |             | 16B  | 9     |       | XAR50R  | 01     | XAR50S   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| 17453   |        | XA524     | 37  |    |        | XA524     | 43  |     |             | 16B  | 9     |       | XACSE0  | 06     | XAR5RA   | 01   | 2      | TQ2              | C4    |                     | 18B                |                    |        |
| 17655   |        | XA524     | 38  |    |        | XA525     | 36  |     |             | 16B  | 9     |       | XAR40S  | 03     | XAR40S   | 00   | 1      | TQ2              | C1    |                     | 18A                | DEV REQ 4          |        |
| 17670   |        | XA524     | 39  |    |        |           |     |     |             |      |       |       | XAR5RA  | 02     | XAR5RA   | 00   | 1      | TQ2              | C4    |                     | 19B                |                    |        |
| 17635   |        | XA524     | 40  |    |        | XA525     | 40  |     |             | 16B  | 9     |       | XAR4CA  | 01     | XAR40S   | 01   | 1      | TQ2              | C1    |                     | 19A                |                    |        |
| 17817   |        | XA524     | 41  |    |        | XA522     | 38  |     |             | 16B  | 9     |       | XA06COX | 01     | XAR6RA   | 01   | 1      | TQ2              | D3    |                     | 22B                |                    |        |
| 17651   |        | XA524     | 42  |    |        | XA523     | 36  |     |             | 16B  | 9     |       | XAR40R  | 01     | XAR40S   | 01   | 2      | TQ2              | C1    |                     | 20A                |                    |        |
| 17454   |        | XA524     | 43  |    |        | XA524     | 49  |     |             | 16B  | 9     |       | XACSE0  | 07     | XAR6RA   | 01   | 2      | TQ2              | D3    |                     | 23B                |                    |        |
| 03050   |        | XA524     | 44  |    |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | TQ2              |       |                     | 21B                |                    |        |
| 17692   |        | XA524     | 45  |    |        |           |     |     |             |      |       |       | XAR6RA  | 02     | XAR6RA   | 00   | 1      | TQ2              | D3    |                     | 24B                |                    |        |
| 17716   |        | XA524     | 46  |    |        | XA523     | 41  |     |             | 16B  | 9     |       | XAR70S  | 01     | XAR70S   | 00   | 1      | TQ2              | D2    |                     | 21A                | DEV REQ 7          |        |
| 17832   |        | XA524     | 47  |    |        |           |     |     |             |      |       |       | XA07COX | 03     | XAR7RA   | 01   | 1      | TQ2              | D4    |                     | 25B                |                    |        |
| 17700   |        | XA524     | 48  |    |        |           |     |     |             |      |       |       | XAR7CA  | 02     | XAR70S   | 01   | 1      | TQ2              | D2    |                     | 22A                |                    |        |
| 17455   |        | XA524     | 49  |    |        | XA525     | 48  |     |             | 16B  | 9     |       | XACSE0  | 08     | XAR7RA   | 01   | 2      | TQ2              | D4    |                     | 26B                |                    |        |
| 17714   |        | XA524     | 50  |    |        | XA524     | 70  |     |             | 16B  | 9     |       | XAR70R  | 02     | XAR70S   | 01   | 2      | TQ2              | D2    |                     | 23A                |                    |        |
| 17711   |        | XA524     | 51  |    |        | XA523     | 46  |     |             | 16B  | 9     |       | XAR7RA  | 01     | XAR7RA   | 00   | 1      | TQ2              | D4    |                     | 27B                |                    |        |
| 17698   |        | XA524     | 52  |    |        |           |     |     |             |      |       |       | XAR60S  | 03     | XAR60S   | 00   | 1      | TQ2              | D1    |                     | 24A                | DEV REQ 6          |        |
| CONNECTOR (XA524) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |     |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA524  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 391

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE        |      |        |       | SIGNAL | SFC NO. | EQUATION | TERM   | FACT | LWT FOR CHIP TYPE | OHM | LOAD OF POWER PLANE | TEST POINTS AND SP | SIGNAL DESCRIPTION | ECO NO. |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------------|------|--------|-------|--------|---------|----------|--------|------|-------------------|-----|---------------------|--------------------|--------------------|---------|
|               | PREFIX | CONNECTOR | PIN                             | INT | PREFIX | CONNECTOR | PIN | INT | MULTI GROUP | CODE | COL-OR | IDENT |        |         |          |        |      |                   |     |                     |                    |                    |         |
| 17510         |        | XA524     | 53                              |     |        | XA523     | 72  |     |             |      | 16B    | 9     |        | XAINTO  | 02       | XAINTA | 01   | 1                 | TQ2 | E3                  | 28B                |                    |         |
| 17679         |        | XA524     | 54                              |     |        | XA525     | 54  |     |             |      | 16B    | 9     |        | XAR6CA  | 01       | XAR60S | 01   | 1                 | TQ2 | D1                  | 29A                |                    |         |
| 06180         |        | XA524     | 55                              |     |        | XA525     | 51  |     |             |      | 16B    | 9     |        | SPI042  | 33       | XAINTA | 01   | 2                 | TQ2 | E3                  | 29B                |                    |         |
| 17694         |        | XA524     | 56                              |     |        | XA523     | 50  |     |             |      | 16B    | 9     |        | XAR60R  | 02       | XAR60S | 01   | 2                 | TQ2 | D1                  | 26A                |                    |         |
| 17507         |        | XA524     | 57                              |     |        | XA523     | 49  |     |             |      | 16B    | 9     |        | XAINTA  | 01       | XAINTA | 00   | 1                 | TQ2 | E3                  | 30B                |                    |         |
| 03051         |        | XA524     | 58                              |     |        |           |     |     |             |      |        |       |        | GND     | 01       |        |      |                   | TQ2 |                     | 27A                |                    |         |
| 17446         |        | XA524     | 59                              |     |        | XA523     | 55  |     |             |      | 16B    | 9     |        | XACSEA  | 02       | XAENAO | 01   | 1                 | TQ2 | E4                  | 31B                |                    |         |
| 17720         |        | XA524     | 60                              |     |        |           |     |     |             |      |        |       |        | XASTBA  | 02       | XASTBA | 00   | 1                 | TQ2 | E2                  | 28A                |                    |         |
| 17528         |        | XA524     | 61                              |     |        | XA525     | 41  |     |             |      | 16B    | 9     |        | XAMRDA  | 03       | XAENAO | 01   | 2                 | TQ2 | E4                  | 32B                |                    |         |
| 06178         |        | XA524     | 62                              |     |        | XA524     | 65  |     |             |      | 16B    | 9     |        | SPI042  | 31       | XASTBA | 01   | 1                 | TQ2 | E2                  | 29A                |                    |         |
| 17465         |        | XA524     | 63                              |     |        |           |     |     |             |      |        |       |        | XAENAO  | 02       | XAENAO | 01   | 1                 | TQ2 | E4                  | 33B                | DEV ENABLE         |         |
| 17723         |        | XA524     | 64                              |     |        | XA525     | 56  |     |             |      | 16B    | 9     |        | XASTB0  | 03       | XASTBA | 01   | 2                 | TQ2 | E2                  | 30A                |                    |         |
| 06179         |        | XA524     | 65                              |     |        | XA524     | 55  |     |             |      | 16B    | 9     |        | SPI042  | 32       |        | 01   | 1                 | TQ2 | F3                  | 34B                |                    |         |
| 17545         |        | XA524     | 66                              |     |        | XA525     | 39  |     |             |      | 16B    | 9     |        | XARE30  | 01       | XARE30 | 00   | 1                 | TQ2 | E1                  | 31A                | DEV REQ 6+7        |         |
| 03052         |        | XA524     | 67                              |     |        |           |     |     |             |      |        |       |        | GND     | 01       |        |      |                   | TQ2 |                     | 40A                |                    |         |
| 17693         |        | XA524     | 68                              |     |        | XA524     | 56  |     |             |      | 16B    | 9     |        | XAR60R  | 01       | XARE30 | 01   | 1                 | TQ2 | E1                  | 32A                |                    |         |
| 08063         |        | XA524     | 69                              |     |        |           |     |     |             |      |        |       |        | SPO     | 01       |        | 00   | 1                 | TQ2 | F3                  | 35A                |                    |         |
| 17715         |        | XA524     | 70                              |     |        |           |     |     |             |      |        |       |        | XAR70R  | 03       | XARE30 | 01   | 2                 | TQ2 | E1                  | 33A                |                    |         |
| 17530         |        | XA524     | 71                              |     |        | XA525     | 46  |     |             |      | 16B    | 9     |        | XAMRDO  | 01       | XAMRCA | 01   | 1                 | TQ2 | F2                  | 36A                |                    |         |
| 17525         |        | XA524     | 72                              |     |        |           |     |     |             |      |        |       |        | XAMRCA  | 09       | XAMRCA | 00   | 1                 | TQ2 | F2                  | 34A                | ENB CMD STB        |         |
| 17721         |        | XA524     | 73                              |     |        | XA523     | 70  |     |             |      | 16B    | 9     |        | XASTB0  | 01       | XAMRCA | 01   | 2                 | TQ2 | F2                  | 36B                |                    |         |
| 06129         |        | XA524     | 74                              |     |        | XA527     | 71  |     |             |      | 16B    | 9     |        | SPI041  | 16       |        | 01   | 2                 | TQ2 | F3                  | 35B                |                    |         |
| 17427         |        | XA524     | 75                              |     |        |           |     |     |             |      |        |       |        | XACMA0  | 02       | XACMA0 | 00   | 1                 | TQ2 | F1                  | 37B                | DEV COMMAND        |         |
| 06174         |        | XA524     | 76                              |     |        | XA525     | 75  |     |             |      | 16B    | 9     |        | SPI042  | 27       |        | 01   | 1                 | TQ2 | F4                  | 37A                |                    |         |
| 17526         |        | XA524     | 77                              |     |        | XA523     | 63  |     |             |      | 16B    | 9     |        | XAMRDA  | 01       | XACMA0 | 01   | 1                 | TQ2 | F1                  | 38B                |                    |         |
| 06128         |        | XA524     | 78                              |     |        | XA524     | 74  |     |             |      | 16B    | 9     |        | SPI041  | 15       |        | 01   | 2                 | TQ2 | F4                  | 38A                |                    |         |
| 17439         |        | XA524     | 79                              |     |        | XA523     | 73  |     |             |      | 16B    | 9     |        | XACSCA  | 01       | XACMA0 | 01   | 2                 | TQ2 | F1                  | 39B                |                    |         |
| 08064         |        | XA524     | 80                              |     |        |           |     |     |             |      |        |       |        | SPO     | 01       |        | 00   | 1                 | TQ2 | F4                  | 39A                |                    |         |
| 17583         |        | XA525     | 01                              |     |        | XA523     | 11  |     |             |      | 16B    | 9     |        | XAR10A  | 01       | XAR10A | 00   | 1                 | THI | A4                  | 02B                |                    |         |
| 03053         |        | XA525     | 02                              |     |        |           |     |     |             |      |        |       |        | GND     | 01       |        |      |                   | THI |                     | 01A                |                    |         |
| 17561         |        | XA525     | 03                              |     |        | XA523     | 09  |     |             |      | 16B    | 9     |        | XAR00A  | 01       | XAR00A | 00   | 1                 | THI | A3                  | 03A                |                    |         |
| 17568         |        | XA525     | 04                              |     |        |           |     |     |             |      |        |       |        | XAR00S  | 04       | XAR00A | 01   | 1                 | THI | A3                  | 02A                |                    |         |
| 17590         |        | XA525     | 05                              |     |        |           |     |     |             |      |        |       |        | XAR10S  | 04       | XAR10A | 01   | 1                 | THI | A4                  | 03B                |                    |         |
| 17573         |        | XA525     | 06                              |     |        |           |     |     |             |      |        |       |        | XARIC0X | 02       | XAR1CA | 01   | 1                 | THI | A2                  | 05A                |                    |         |
| 08065         |        | XA525     | 07                              |     |        |           |     |     |             |      |        |       |        | SPO     | 01       |        | 00   | 1                 | THI | A5                  | 04B                |                    |         |
| 17570         |        | XA525     | 08                              |     |        |           |     |     |             |      |        |       |        | XAR1CA  | 02       | XAR1CA | 00   | 1                 | THI | A2                  | 04A                |                    |         |
| 06184         |        | XA525     | 09                              |     |        | XA121     | 62  |     |             |      | 16B    | 9     |        | SPI042  | 37       |        | 01   | 1                 | THI | A5                  | 05B                |                    |         |
| 08066         |        | XA525     | 10                              |     |        |           |     |     |             |      |        |       |        | SPO     | 01       |        | 00   | 1                 | THI | A6                  | 06B                |                    |         |
| 17551         |        | XA525     | 11                              |     |        |           |     |     |             |      |        |       |        | XAROC0X | 02       | XAROCA | 01   | 1                 | THI | A1                  | 07A                |                    |         |
| 00695         |        | XA525     | 12                              |     |        |           |     |     |             |      |        |       |        | +5V     | 01       |        |      |                   | THI |                     |                    |                    |         |
| 17547         |        | XA525     | 13                              |     |        | XA524     | 08  |     |             |      | 16B    | 9     |        | XAROCA  | 01       | XAROCA | 00   | 1                 | THI | A1                  | 06A                |                    |         |
| 17627         |        | XA525     | 14                              |     |        | XA523     | 21  |     |             |      | 16B    | 9     |        | XAR30A  | 01       | XAR30A | 00   | 1                 | THI | B4                  | 08B                |                    |         |
| 06183         |        | XA525     | 15                              |     |        | XA525     | 09  |     |             |      | 16B    | 9     |        | SPI042  | 36       |        | 01   | 1                 | THI | A6                  | 07B                |                    |         |
| 03054         |        | XA525     | 16                              |     |        |           |     |     |             |      |        |       |        | GND     | 01       |        |      |                   | THI |                     | 20B                |                    |         |
| 17634         |        | XA525     | 17                              |     |        |           |     |     |             |      |        |       |        | XAR30S  | 04       | XAR30A | 01   | 1                 | THI | B4                  | 09B                |                    |         |
| 17605         |        | XA525     | 18                              |     |        | XA523     | 13  |     |             |      | 16B    | 9     |        | XAR20A  | 01       | XAR20A | 00   | 1                 | THI | B3                  | 09A                |                    |         |
| 17483         |        | XA525     | 19                              |     |        |           |     |     |             |      |        |       |        | XAGNDA  | 07       | XAGNDA | 00   | 1                 | THI | B5                  | 10B                |                    |         |
| 17612         |        | XA525     | 20                              |     |        |           |     |     |             |      |        |       |        | XAR20S  | 04       | XAR20A | 01   | 1                 | THI | B3                  | 10A                |                    |         |
| CONNECTOR     |        | XA525     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |             |      |        |       |        |         |          |        |      |                   |     |                     |                    |                    |         |

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DRAWING NUMBER 149019-880

CONNECTOR

UNIT ASSEMBLY NO. 149019

REV G

INDEX XA525

UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O

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| RECORD NUMBER                                     | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       | SPT INST MISC | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GRP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|---------------|---------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | REF | PREFIX | CONNECTOR | PIN | REF | MULTI GROUP | CODE | COLOR |               |         |        |          |      |        |                  |     |                     |                    |                    |        |
| 06288   |        | XA525     | 21  |     | XA531  | 21        |     |     |             | 16B  | 9     |               | SPI301  | 09     | XAGNDA   | 01   | 1      | THI              | B5  |                     | 11B                |                    | C13    |
| 17595   |        | XA525     | 22  |     |        |           |     |     |             |      |       |               | XAR2COX | 02     | XAR2CA   | 01   | 1      | THI              | B1  |                     | 14A                |                    |        |
| 17617   |        | XA525     | 23  |     |        |           |     |     |             |      |       |               | XAR3COX | 02     | XAR3CA   | 01   | 1      | THI              | B2  |                     | 12A                |                    |        |
| 17591   |        | XA525     | 24  |     | XA524  | 24        |     |     |             | 16B  | 9     |               | XAR2CA  | 01     | XAR2CA   | 00   | 1      | THI              | B1  |                     | 13A                |                    |        |
| 17614   |        | XA525     | 25  |     |        |           |     |     |             |      |       |               | XAR3CA  | 02     | XAR3CA   | 00   | 1      | THI              | B2  |                     | 11A                |                    |        |
| 17535   |        | XA525     | 26  |     | XA523  | 33        |     |     |             | 16B  | 9     |               | XARE1A  | 01     | XARE1A   | 00   | 1      | THI              | B6  |                     | 12B                |                    |        |
| 17538   |        | XA525     | 27  |     |        |           |     |     |             |      |       |               | XARE1O  | 02     | XARE1A   | 01   | 1      | THI              | B6  |                     | 13B                |                    |        |
| 00696   |        | XA525     | 28  |     |        |           |     |     |             |      |       |               | +5V     | 01     |          |      |        | THI              |     |                     |                    |                    |        |
| 17675   |        | XA525     | 29  |     | XA524  | 30        |     |     |             | 16B  | 9     |               | XAR5O5  | 01     | XAR50A   | 01   | 1      | THI              | C4  |                     | 15B                |                    |        |
| 17671   |        | XA525     | 30  |     | XA523  | 25        |     |     |             | 16B  | 9     |               | XAR50A  | 01     | XAR50A   | 00   | 1      | THI              | C4  |                     | 14B                |                    |        |
| 17539   |        | XA525     | 31  |     | XA523  | 35        |     |     |             | 16B  | 9     |               | XARE2A  | 01     | XARE2A   | 00   | 1      | THI              | C5  |                     | 16B                |                    |        |
| 03055   |        | XA525     | 32  |     |        |           |     |     |             |      |       |               | GND     | 01     |          |      |        | THI              |     |                     | 21B                |                    |        |
| 17542   |        | XA525     | 33  |     |        |           |     |     |             |      |       |               | XARE2O  | 02     | XARE2A   | 01   | 1      | THI              | C5  |                     | 17B                |                    |        |
| 17649   |        | XA525     | 34  |     | XA523  | 23        |     |     |             | 16B  | 9     |               | XAR4O0  | 01     | XAR4O0   | 00   | 1      | THI              | C3  |                     | 15A                |                    |        |
| 17661   |        | XA525     | 35  |     |        |           |     |     |             |      |       |               | XAR5COX | 02     | XAR5CA   | 01   | 1      | THI              | C2  |                     | 18A                |                    |        |
| 17656   |        | XA525     | 36  |     |        |           |     |     |             |      |       |               | XAR4O5  | 04     | XAR4O0   | 01   | 1      | THI              | C3  |                     | 16A                |                    |        |
| 17658   |        | XA525     | 37  |     |        |           |     |     |             |      |       |               | XAR5CA  | 02     | XAR5CA   | 00   | 1      | THI              | C2  |                     | 17A                |                    |        |
| 17639   |        | XA525     | 38  |     |        |           |     |     |             |      |       |               | XAR4COX | 02     | XAR4CA   | 01   | 1      | THI              | C1  |                     | 20A                |                    |        |
| 17546   |        | XA525     | 39  |     |        |           |     |     |             |      |       |               | XARE3O  | 02     | XARE3A   | 01   | 1      | THI              | C6  |                     | 19B                |                    |        |
| 17636   |        | XA525     | 40  |     |        |           |     |     |             |      |       |               | XAR4CA  | 02     | XAR4CA   | 00   | 1      | THI              | C1  |                     | 19A                |                    |        |
| 17529   |        | XA525     | 41  |     |        |           |     |     |             |      |       |               | XAMRDA  | 04     | XAMRDO   | 01   | 1      | THI              | D4  |                     | 23B                |                    |        |
| 17543   |        | XA525     | 42  |     | XA523  | 37        |     |     |             | 16B  | 9     |               | XARE3A  | 01     | XARE3A   | 00   | 1      | THI              | C6  |                     | 18B                |                    |        |
| 08067   |        | XA525     | 43  |     |        |           |     |     |             |      |       |               | SPO     | 01     |          |      |        | THI              | D5  |                     | 24B                |                    |        |
| 03056   |        | XA525     | 44  |     |        |           |     |     |             |      |       |               | GND     | 01     |          |      |        | THI              |     |                     | 27A                |                    |        |
| 06182   |        | XA525     | 45  |     | XA525  | 15        |     |     |             | 16B  | 9     |               | SPI042  | 35     |          |      |        | THI              | D5  |                     | 25B                |                    |        |
| 17531   |        | XA525     | 46  |     |        |           |     |     |             |      |       |               | XAMRDO  | 02     | XAMRDO   | 00   | 1      | THI              | D4  |                     | 22B                |                    |        |
| 17703   |        | XA525     | 47  |     |        |           |     |     |             |      |       |               | XAR7COX | 02     | XAR7CA   | 01   | 1      | THI              | D2  |                     | 24A                |                    |        |
| 17456   |        | XA525     | 48  |     |        |           |     |     |             |      |       |               | XAC5E0  | 09     | XAC5E0   | 00   | 1      | THI              | D3  |                     | 21A                |                    |        |
| 17699   |        | XA525     | 49  |     | XA524  | 48        |     |     |             | 16B  | 9     |               | XAR7CA  | 01     | XAR7CA   | 00   | 1      | THI              | D2  |                     | 23A                |                    |        |
| 17445   |        | XA525     | 50  |     | XA524  | 59        |     |     |             | 16B  | 9     |               | XAC5EA  | 01     | XAC5E0   | 01   | 1      | THI              | D3  |                     | 22A                |                    |        |
| 06181   |        | XA525     | 51  |     | XA525  | 45        |     |     |             | 16B  | 9     |               | SPI042  | 34     |          |      |        | THI              | D6  |                     | 27B                |                    |        |
| 17683   |        | XA525     | 52  |     |        |           |     |     |             |      |       |               | XAR6COX | 02     | XAR6CA   | 01   | 1      | THI              | D1  |                     | 26A                |                    |        |
| 08068   |        | XA525     | 53  |     |        |           |     |     |             |      |       |               | SPO     | 01     |          |      |        | THI              | D6  |                     | 26B                |                    |        |
| 17680   |        | XA525     | 54  |     |        |           |     |     |             |      |       |               | XAR6CA  | 02     | XAR6CA   | 00   | 1      | THI              | D1  |                     | 25A                |                    |        |
| 15673   |        | XA525     | 55  |     | XA518  | 55        |     |     |             | 16B  | 9     |               | TSTBCA  | 05     | XASTB0   | 01   | 1      | THI              | E4  |                     | 29B                |                    |        |
| 17724   |        | XA525     | 56  |     |        |           |     |     |             |      |       |               | XASTB0  | 04     | XASTB0   | 00   | 1      | THI              | E4  |                     | 28B                |                    |        |
| 17466   |        | XA525     | 57  |     | XA523  | 57        |     |     |             | 16B  | 9     |               | XAENB0  | 01     | XAENB0   | 00   | 1      | THI              | E5  |                     | 30B                |                    |        |
| 03057   |        | XA525     | 58  |     |        |           |     |     |             |      |       |               | GND     | 01     |          |      |        | THI              |     |                     | 40A                |                    |        |
| 12519   |        | XA525     | 59  |     | XA518  | 59        |     |     |             | 16B  | 9     |               | TENACA  | 05     | XAENB0   | 01   | 1      | THI              | E5  |                     | 31B                |                    |        |
| 17509   |        | XA525     | 60  |     | XA524  | 53        |     |     |             | 16B  | 9     |               | XAINTO  | 01     | XAINTO   | 00   | 1      | THI              | E3  |                     | 28A                |                    |        |
| 09932   |        | XA525     | 61  |     | XA518  | 61        |     |     |             | 16B  | 9     |               | TCSXMA  | 05     | XAICR0   | 01   | 1      | THI              | E2  |                     | 31A                |                    |        |
| 13397   |        | XA525     | 62  |     | XA518  | 62        |     |     |             | 16B  | 9     |               | TINTCA  | 05     | XAINTO   | 01   | 1      | THI              | E3  |                     | 29A                |                    |        |
| 17488   |        | XA525     | 63  |     | XA523  | 47        |     |     |             | 16B  | 9     |               | XAICR0  | 05     | XAICR0   | 00   | 1      | THI              | E2  |                     | 30A                |                    |        |
| 09950   |        | XA525     | 64  |     |        |           |     |     |             |      |       |               | TCS1AA  | 03     | XAICSO   | 01   | 1      | THI              | E1  |                     | 33A                |                    |        |
| 09749   |        | XA525     | 65  |     | XA531  | 65        |     |     |             | 16B  | 9     |               | TCMDCA  | 03     | XACMD0   | 01   | 1      | THI              | E6  |                     | 33B                |                    |        |
| 17490   |        | XA525     | 66  |     | XA523  | 66        |     |     |             | 16B  | 9     |               | XAIGSO  | 01     | XAICSO   | 00   | 1      | THI              | E1  |                     | 32A                |                    |        |
| 03058   |        | XA525     | 67  |     |        |           |     |     |             |      |       |               | GND     | 01     |          |      |        | THI              |     |                     |                    |                    |        |
| 17438   |        | XA525     | 68  |     |        |           |     |     |             |      |       |               | XACMD0  | 03     | XACMD0   | 00   | 1      | THI              | E6  |                     | 32B                |                    |        |
| 06177   |        | XA525     | 69  |     | XA524  | 62        |     |     |             | 16B  | 9     |               | SPI042  | 30     |          |      |        | THI              | F3  |                     | 35B                |                    |        |
| 08069   |        | XA525     | 70  |     |        |           |     |     |             |      |       |               | SPO     | 01     |          |      |        | THI              | F3  |                     | 34B                |                    |        |
| CONNECTOR (XA525) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |             |      |       |               |         |        |          |      |        |                  |     |                     |                    |                    |        |

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DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA525  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 393

| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOCAL OR POWER PLANE | TEST POINTS (ANCHOR) | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|----------|--------|----------|------|--------|------------------|-------|----------------------|----------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | NAME | PREFIX | CONNECTOR | PIN | NAME | MULTI GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |       |                      |                      |                    |        |
| 08070   |        | XA525     | 71  |      |        |           |     |      |             |      |       |       | SPO      | 01     |          | 00   | 1      | THI              | F2    |                      | 36B                  |                    |        |
| 08071   |        | XA525     | 72  |      |        |           |     |      |             |      |       |       | SPO      | 01     |          | 00   | 1      | THI              | F4    |                      | 34A                  |                    |        |
| 06176   |        | XA525     | 73  |      | XA525  | 69        |     |      | 16B         | 9    |       |       | SPI042   | 29     |          | 01   | 1      | THI              | F2    |                      | 37B                  |                    |        |
| 06171   |        | XA525     | 74  |      | XA525  | 76        |     |      | 16B         | 9    |       |       | SPI042   | 24     |          | 01   | 1      | THI              | F4    |                      | 35A                  |                    |        |
| 06175   |        | XA525     | 75  |      | XA525  | 73        |     |      | 16B         | 9    |       |       | SPI042   | 28     |          | 01   | 1      | THI              | F6    |                      | 39A                  |                    |        |
| 06172   |        | XA525     | 76  |      | XA525  | 79        |     |      | 16B         | 9    |       |       | SPI042   | 25     |          | 01   | 1      | THI              | F5    |                      | 37A                  |                    |        |
| 08072   |        | XA525     | 77  |      |        |           |     |      |             |      |       |       | SPO      | 01     |          | 00   | 1      | THI              | F6    |                      | 38A                  |                    |        |
| 08073   |        | XA525     | 78  |      |        |           |     |      |             |      |       |       | SPO      | 01     |          | 00   | 1      | THI              | F5    |                      | 36A                  |                    |        |
| 06173   |        | XA525     | 79  |      | XA524  | 76        |     |      | 16B         | 9    |       |       | SPI042   | 26     |          | 01   | 1      | THI              | F1    |                      | 39B                  |                    |        |
| 08074   |        | XA525     | 80  |      |        |           |     |      |             |      |       |       | SPO      | 01     |          | 00   | 1      | THI              | F1    |                      | 38B                  |                    |        |
| 18191   |        | XA526     | 01  |      |        |           |     |      |             |      |       | J     | XB03CDX  | 01     | XB03CDX  | 00   | 1      | DCF              | A7    |                      | 02A                  | XB03DB4 BUSS       |        |
| 18198   |        | XA526     | 01  |      | XA401  | 49        |     |      | 16B         | 9    |       |       | XB03CDX  | 02     | XB03DB4  | 01   | 1      | DCF              | A7    |                      | 02A                  | DEV DATA LINE 3    | A01    |
| 18201   |        | XA526     | 02  |      |        |           |     |      |             |      |       |       | XB03DB4R | 02     |          |      |        | DCF              |       |                      | 01A                  |                    |        |
| 21300   |        | XA526     | 02  |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | DCF              |       |                      | 01A                  |                    |        |
| 18192   |        | XA526     | 03  |      | XA528  | 04        |     |      | 16B         | 9    |       |       | XB03COX  | 01     | XB03COX  | 00   | 1      | DCF              | A8    |                      | 03A                  |                    |        |
| 11027   |        | XA526     | 04  |      | XA533  | 04        |     |      | 16B         | 9    |       |       | TDL3A0   | 05     | XB03COX  | 01   | 1      | DCF              | A8    |                      | 04A                  |                    |        |
| 18162   |        | XA526     | 05  |      |        |           |     |      |             |      |       |       | XB00DB4R | 02     |          |      |        | DCF              |       |                      |                      |                    |        |
| 17874   |        | XA526     | 06  |      | XA526  | 36        |     |      | 16B         | 9    |       |       | XBCSSA   | 01     | XB00CDX  | 01   | 1      | DCF              | A1    |                      | 05A                  |                    |        |
| 20628   |        | XA526     | 06  |      |        |           |     |      |             |      |       | M     | XBCSSA   | 01     | XB02COX  | 01   | 1      | DCF              | A5    |                      | 05A                  |                    |        |
| 20629   |        | XA526     | 06  |      |        |           |     |      |             |      |       | M     | XBCSSA   | 01     | XB03COX  | 01   | 1      | DCF              | A7    |                      | 05A                  |                    |        |
| 20630   |        | XA526     | 06  |      |        |           |     |      |             |      |       | J     | XBCSSA   | 01     | XB01COX  | 01   | 1      | DCF              | A3    |                      | 05A                  |                    |        |
| 18152   |        | XA526     | 07  |      |        |           |     |      |             |      |       | J     | XB00CDX  | 01     | XB00CDX  | 00   | 1      | DCF              | A1    |                      | 02B                  | XB00DB4 BUSS       |        |
| 18159   |        | XA526     | 07  |      | XA401  | 43        |     |      | 16B         | 9    |       | P     | XB00CDX  | 02     | XB03DB4  | 01   | 1      | DCF              | A1    |                      | 02B                  | DEV DATA LINE 0    | A01    |
| 11014   |        | XA526     | 08  |      | XA520  | 08        |     |      | 16B         | 9    |       |       | TDL2A0   | 06     | XB02COX  | 01   | 1      | DCF              | A6    |                      | 06A                  |                    |        |
| 18153   |        | XA526     | 09  |      | XA528  | 11        |     |      | 16B         | 9    |       |       | XB00COX  | 01     | XB00COX  | 00   | 1      | DCF              | A2    |                      | 03B                  |                    |        |
| 18179   |        | XA526     | 10  |      | XA528  | 08        |     |      | 16B         | 9    |       |       | XB02COX  | 01     | XB02COX  | 00   | 1      | DCF              | A6    |                      | 07A                  |                    |        |
| 10988   |        | XA526     | 11  |      | XA533  | 11        |     |      | 16B         | 9    |       |       | TDL0A0   | 04     | XB00COX  | 01   | 1      | DCF              | A2    |                      | 04B                  |                    |        |
| 00697   |        | XA526     | 12  |      |        |           |     |      |             |      |       |       | +5V      | 01     |          |      |        | DCF              |       |                      | 08A                  |                    |        |
| 11000   |        | XA526     | 13  |      | XA533  | 13        |     |      | 16B         | 9    |       |       | TDL1A0   | 04     | XB01COX  | 01   | 1      | DCF              | A4    |                      | 05B                  |                    |        |
| 18178   |        | XA526     | 14  |      |        |           |     |      |             |      |       | J     | XB02CDX  | 01     | XB02CDX  | 00   | 1      | DCF              | A5    |                      | 08B                  | XB02DB4 BUSS       |        |
| 18185   |        | XA526     | 14  |      | XA401  | 47        |     |      | 16B         | 9    |       | P     | XB02CDX  | 02     | XB02DB4  | 01   | 1      | DCF              | A5    |                      | 08B                  | DEV DATA LINE 2    | A01    |
| 18166   |        | XA526     | 15  |      | XA528  | 13        |     |      | 16B         | 9    |       |       | XB01COX  | 01     | XB01COX  | 00   | 1      | DCF              | A4    |                      | 06B                  |                    |        |
| 18188   |        | XA526     | 16  |      |        |           |     |      |             |      |       |       | XB02DB4R | 02     |          |      |        | DCF              |       |                      |                      |                    |        |
| 21301   |        | XA526     | 16  |      |        |           |     |      |             |      |       |       | GND      | 01     |          |      |        | DCF              |       |                      |                      |                    |        |
| 18165   |        | XA526     | 17  |      |        |           |     |      |             |      |       | J     | XB01CDX  | 01     | XB01CDX  | 00   | 1      | DCF              | A3    |                      | 07B                  | XB01DB4 BUSS       |        |
| 18172   |        | XA526     | 17  |      | XA401  | 45        |     |      | 16B         | 9    |       | P     | XB01CDX  | 02     | XB01DB4  | 01   | 1      | DCF              | A3    |                      | 07B                  | DEV DATA LINE 1    | A01    |
| 01590   |        | XA526     | 18  |      |        |           |     |      |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                      |                      |                    |        |
| 18175   |        | XA526     | 19  |      |        |           |     |      |             |      |       |       | XB01DB4R | 02     |          |      |        | DCF              |       |                      |                      |                    |        |
| 01591   |        | XA526     | 20  |      |        |           |     |      |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                      |                      |                    |        |
| 18253   |        | XA526     | 21  |      |        |           |     |      |             |      |       |       | XB07DB4R | 02     |          |      |        | DCF              |       |                      |                      |                    |        |
| 01592   |        | XA526     | 22  |      |        |           |     |      |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                      |                      |                    |        |
| 18243   |        | XA526     | 23  |      |        |           |     |      |             |      |       | J     | XB07CDX  | 01     | XB07CDX  | 00   | 1      | DCF              | B7    |                      | 10A                  | XB07DB4 BUSS       |        |
| 18250   |        | XA526     | 23  |      | XA401  | 57        |     |      | 16B         | 9    |       | P     | XB07COX  | 02     | XB07DB4  | 01   | 1      | DCF              | B7    |                      | 10A                  | DEV DATA LINE 7    | A01    |
| 01593   |        | XA526     | 24  |      |        |           |     |      |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                      |                      |                    |        |
| 18214   |        | XA526     | 25  |      |        |           |     |      |             |      |       |       | XB04DB4R | 02     |          |      |        | DCF              |       |                      |                      |                    |        |
| 01594   |        | XA526     | 26  |      |        |           |     |      |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                      |                      |                    |        |
| 18204   |        | XA526     | 27  |      |        |           |     |      |             |      |       | J     | XB04COX  | 01     | XB04COX  | 00   | 1      | DCF              | B1    |                      | 10B                  | XB04DB4 BUSS       |        |
| 18211   |        | XA526     | 27  |      | XA401  | 51        |     |      | 16B         | 9    |       | P     | XB04COX  | 02     | XB04DB4  | 01   | 1      | DCF              | B1    |                      | 10B                  | DEV DATA LINE 4    | A01    |
| CONNECTOR (XA526) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |       |          |        |          |      |        |                  |       |                      |                      |                    |        |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA526  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 394

| RECORD NUMBER | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION     | ECO NO |
|---------------|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|------------------------|--------|
|               | PREFIX | CONNECTOR | PIN | REF | PREFIX | CONNECTOR | PIN | REF | MULTI GROUP | CODE | COLOR | IDENT |          |        |          |      |        |                  |       |                     |                    |                        |        |
| 00698         |        | XA526     | 28  |     |        |           |     |     |             |      |       |       | +5V      | 01     |          |      |        | DCF              |       |                     | 21B                |                        |        |
| 18205         |        | XA526     | 29  |     | XA528  | 31        |     |     | 16B         | 9    |       |       | XB04COX  | 01     | XB04COX  | 00   | 1      | DCF              | B2    |                     | 11B                |                        |        |
| 18244         |        | XA526     | 30  |     | XA528  | 34        |     |     | 16B         | 9    |       |       | XB07COX  | 01     | XB07COX  | 00   | 1      | DCF              | B8    |                     | 11A                |                        |        |
| 11040         |        | XA526     | 31  |     | XA533  | 31        |     |     | 16B         | 9    |       |       | TDL4A0   | 05     | XB04COX  | 01   | 1      | DCF              | B2    |                     | 12B                |                        |        |
| 03059         |        | XA526     | 32  |     |        |           |     |     |             |      |       |       | GND      | 01     |          |      |        | DCF              |       |                     |                    |                        |        |
| 11053         |        | XA526     | 33  |     | XA533  | 33        |     |     | 16B         | 9    |       |       | TDL5A0   | 05     | XB05COX  | 01   | 1      | DCF              | B4    |                     | 13B                |                        |        |
| 11078         |        | XA526     | 34  |     | XA533  | 34        |     |     | 16B         | 9    |       |       | TDL7A0   | 05     | XB07COX  | 01   | 1      | DCF              | B8    |                     | 12A                |                        |        |
| 18218         |        | XA526     | 35  |     | XA528  | 33        |     |     | 16B         | 9    |       |       | XB05COX  | 01     | XB05COX  | 00   | 1      | DCF              | B4    |                     | 14B                |                        |        |
| 17875         |        | XA526     | 36  |     | XA526  | 52        |     |     | 16B         | 9    |       |       | XBC5SA   | 02     | XB04COX  | 01   | 1      | DCF              | B1    |                     | 13A                |                        |        |
| 20631         |        | XA526     | 36  |     |        |           |     |     |             |      |       | M     | XBC5SA   | 01     | XB07COX  | 01   | 1      | DCF              | B7    |                     | 13A                |                        |        |
| 20632         |        | XA526     | 36  |     |        |           |     |     |             |      |       | M     | XBC5SA   | 01     | XB06COX  | 01   | 1      | DCF              | B5    |                     | 13A                |                        |        |
| 20633         |        | XA526     | 36  |     |        |           |     |     |             |      |       | M     | XBC5SA   | 01     | XB05COX  | 01   | 1      | DCF              | B3    |                     | 13A                |                        |        |
| 18217         |        | XA526     | 37  |     |        |           |     |     |             |      |       | J     | XB05COX  | 01     | XB05COX  | 00   | 1      | DCF              | B3    |                     | 15B                | XB05DB4 BUSS           |        |
| 18224         |        | XA526     | 37  |     | XA401  | 53        |     |     | 16B         | 9    |       | P     | XB05COX  | 02     | XB05DB4  | 01   | 1      | DCF              | B3    |                     | 15B                | DEV DATA LINE 5 A01    |        |
| 11065         |        | XA526     | 38  |     | XA533  | 38        |     |     | 16B         | 9    |       |       | TDL6A0   | 04     | XB06COX  | 01   | 1      | DCF              | B6    |                     | 14A                |                        |        |
| 18227         |        | XA526     | 39  |     |        |           |     |     |             |      |       |       | XB05DB4R | 02     |          |      |        | DCF              |       |                     |                    |                        |        |
| 18233         |        | XA526     | 40  |     |        |           |     |     |             |      |       |       | XB06COX  | 03     | XB06COX  | 00   | 1      | DCF              | B6    |                     | 15A                |                        |        |
| 18230         |        | XA526     | 41  |     |        |           |     |     |             |      | J     |       | XB06COX  | 01     | XB06COX  | 00   | 1      | DCF              | B5    |                     | 16A                | XB06DB4 BUSS           |        |
| 18237         |        | XA526     | 41  |     | XA401  | 55        |     |     | 16B         | 9    |       | P     | XB06COX  | 02     | XB06DB4  | 01   | 1      | DCF              | B5    |                     | 16A                | DEV DATA LINE 6 A01    |        |
| 18240         |        | XA526     | 42  |     |        |           |     |     |             |      |       |       | XB06DB4R | 02     |          |      |        | DCF              |       |                     | 20B                |                        |        |
| 18007         |        | XA526     | 43  |     |        |           |     |     |             |      | J     |       | XBR2COX  | 01     | XBR2COX  | 00   | 1      | DCF              | C7    |                     | 25A                | XBR2DB4 BUSS           |        |
| 18013         |        | XA526     | 43  |     | XA401  | 63        |     |     | 16B         | 9    |       | P     | XBR2COX  | 02     | XBR2DB4  | 01   | 1      | DCF              | C7    |                     | 25A                | A01                    |        |
| 18016         |        | XA526     | 44  |     |        |           |     |     |             |      |       |       | XBR2DB4R | 02     |          |      |        | DCF              |       |                     |                    |                        |        |
| 21302         |        | XA526     | 44  |     |        |           |     |     |             |      |       |       | GND      | 01     |          |      |        | DCF              |       |                     |                    |                        |        |
| 18149         |        | XA526     | 45  |     |        |           |     |     |             |      |       |       | XB0PDB4R | 02     |          |      |        | DCF              |       |                     | 27A                |                        |        |
| 18140         |        | XA526     | 46  |     |        |           |     |     |             |      | J     |       | XB0PCDX  | 01     | XB0PCDX  | 00   | 1      | DCF              | C1    |                     | 25B                | XB0PDB4 BUSS           |        |
| 18146         |        | XA526     | 46  |     | XA401  | 41        |     |     | 16B         | 9    |       | P     | XB0PCDX  | 02     | XB0PDB4  | 01   | 1      | DCF              | C1    |                     | 25B                | DEV DATA LINE PART A01 |        |
| 18141         |        | XA526     | 47  |     | XA527  | 49        |     |     | 16B         | 9    |       |       | XB0PCOX  | 01     | XB0PCOX  | 00   | 1      | DCF              | C2    |                     | 26B                |                        |        |
| 18008         |        | XA526     | 48  |     | XA531  | 22        |     |     | 16B         | 9    |       |       | XBR2COX  | 01     | XBR2COX  | 00   | 1      | DCF              | C8    |                     | 26A                | DEV REQ REC. 2         |        |
| 10981         |        | XA526     | 49  |     | XA533  | 49        |     |     | 16B         | 9    |       |       | TDLPA0   | 05     | XB0PCOX  | 01   | 1      | DCF              | C2    |                     | 27B                |                        |        |
| 17894         |        | XA526     | 50  |     | XA526  | 54        |     |     | 16B         | 9    |       |       | XBGND4   | 04     | XBR2COX  | 01   | 1      | DCF              | C8    |                     | 28A                |                        |        |
| 17893         |        | XA526     | 51  |     | XA526  | 50        |     |     | 16B         | 9    |       |       | XBGND4   | 03     | XBROCOX  | 01   | 1      | DCF              | C4    |                     | 28B                |                        |        |
| 17876         |        | XA526     | 52  |     | XA529  | 64        |     |     | 16B         | 9    |       |       | XBC5SA   | 03     | XB0PCDX  | 01   | 1      | DCF              | C1    |                     | 29A                |                        |        |
| 20634         |        | XA526     | 52  |     |        |           |     |     |             |      | M     |       | XBC5SA   | 01     | XBR2COX  | 01   | 1      | DCF              | C7    |                     | 29A                |                        |        |
| 20635         |        | XA526     | 52  |     |        |           |     |     |             |      | M     |       | XBC5SA   | 01     | XBROCOX  | 01   | 1      | DCF              | C3    |                     | 29A                |                        |        |
| 20636         |        | XA526     | 52  |     |        |           |     |     |             |      | M     |       | XBC5SA   | 01     | XBR1COX  | 01   | 1      | DCF              | C5    |                     | 29A                |                        |        |
| 17972         |        | XA526     | 53  |     |        |           |     |     |             |      |       |       | XBRODB4R | 05     |          |      |        | DCF              |       |                     |                    |                        |        |
| 17895         |        | XA526     | 54  |     | XA528  | 52        |     |     | 16B         | 9    |       |       | XBGND4   | 02     | XBR1COX  | 01   | 1      | DCF              | C6    |                     | 30A                |                        |        |
| 17963         |        | XA526     | 55  |     |        |           |     |     |             |      | J     |       | XBROCOX  | 01     | XBROCOX  | 00   | 1      | DCF              | C3    |                     | 30B                | XBRODB4 BUSS           |        |
| 17969         |        | XA526     | 55  |     | XA401  | 59        |     |     | 16B         | 9    |       | P     | XBROCOX  | 02     | XBRODB4  | 01   | 1      | DCF              | C3    |                     | 30B                | A01                    |        |
| 17964         |        | XA526     | 56  |     | XA531  | 11        |     |     | 16B         | 9    |       |       | XBROCOX  | 01     | XBROCOX  | 00   | 1      | DCF              | C4    |                     | 29B                | DEV REQ REC. 0         |        |
| 17986         |        | XA526     | 57  |     | XA531  | 06        |     |     | 16B         | 9    |       |       | XBR1COX  | 01     | XBR1COX  | 00   | 1      | DCF              | C6    |                     | 31A                | DEV REQ REC. 1         |        |
| 17994         |        | XA526     | 58  |     |        |           |     |     |             |      |       |       | XBR1DB4R | 02     |          |      |        | DCF              |       |                     |                    |                        |        |
| 21303         |        | XA526     | 58  |     |        |           |     |     |             |      |       |       | GND      | 01     |          |      |        | DCF              |       |                     |                    |                        |        |
| 18104         |        | XA526     | 59  |     |        |           |     |     |             |      |       |       | XBRODB4R | 02     |          |      |        | DCF              |       |                     |                    |                        |        |
| 17985         |        | XA526     | 60  |     |        |           |     |     |             |      | J     |       | XBR1COX  | 01     | XBR1COX  | 00   | 1      | DCF              | C5    |                     | 31B                | XBR1DB4 BUSS           |        |
| 17991         |        | XA526     | 60  |     | XA401  | 61        |     |     | 16B         | 9    |       | P     | XBR1COX  | 02     | XBR1DB4  | 01   | 1      | DCF              | C5    |                     | 31B                | A01                    |        |
| 18095         |        | XA526     | 61  |     |        |           |     |     |             |      | J     |       | XBR6COX  | 01     | XBR6COX  | 00   | 1      | DCF              | D7    |                     | 33A                | XBR6DB4 BUSS           |        |
| 18101         |        | XA526     | 61  |     | XA401  | 71        |     |     | 16B         | 9    |       | P     | XBR6COX  | 02     | XBR6DB4  | 01   | 1      | DCF              | D7    |                     | 33A                | A01                    |        |
| 01595         |        | XA526     | 62  |     |        |           |     |     |             |      |       |       | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                        |        |

CONNECTOR (XA526) CONTINUED ON THE NEXT PAGE \*\*\*\*

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA526  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 395

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SIGNAL | SEQ NO    | EQUATION | TERM    | FACTOR | CMT OR CHIP TYPE | GMM | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|--------|-----------|----------|---------|--------|------------------|-----|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | DATA | MULTI GROUP | CODE | COLOR |        |           |          |         |        |                  |     |                     |                    |                    |                  |
| 01596   |        | XA526     | 63  |        |           |     |      |             |      |       |        | DNW       | 01       |         |        |                  |     |                     |                    |                    |                  |
| 01597   |        | XA526     | 64  |        |           |     |      |             |      |       |        | DNW       | 01       |         |        |                  |     |                     |                    |                    |                  |
| 18029   |        | XA526     | 65  |        |           |     |      |             |      |       |        | XBR3CDX   | 01       | XBR3CDX | 00     | 1                | DCF | 01                  |                    | 32B                | XBR3DB4 BUSS     |
| 18035   |        | XA526     | 65  |        | XA401     | 65  |      |             | 16B  | 9     |        | XBR3CDX   | 02       | XBR3DB4 | 01     | 1                | DCF | 01                  |                    | 32B                |                  |
| 01598   |        | XA526     | 66  |        |           |     |      |             |      |       |        | DNW       | 01       |         |        |                  |     |                     |                    |                    |                  |
| 18036   |        | XA526     | 67  |        |           |     |      |             |      |       |        | XBR3DB4R  | 02       |         |        |                  |     |                     |                    |                    |                  |
| 21304   |        | XA526     | 67  |        |           |     |      |             |      |       |        | GND       | 01       |         |        |                  |     |                     |                    |                    |                  |
| 18096   |        | XA526     | 68  |        | XA531     | 52  |      |             | 16B  | 9     |        | XBR6COX   | 01       | XBR6COX | 00     | 1                | DCF | D8                  |                    | 34A                | DEV REQ REC. 6   |
| 18030   |        | XA526     | 69  |        | XA531     | 23  |      |             | 16B  | 9     |        | XBR3COX   | 01       | XBR3COX | 00     | 1                | DCF | D2                  |                    | 33B                | DEV REQ REC. 3   |
| 06312   |        | XA526     | 70  |        | XA526     | 74  |      |             | 16B  | 9     |        | SPI309    | 13       | XBR6COX | 01     | 1                | DCF | D8                  |                    | 35A                |                  |
| 06315   |        | XA526     | 71  |        | XA520     | 70  |      |             | 16B  | 9     |        | SPI309    | 16       | XBR3COX | 01     | 1                | DCF | D2                  |                    | 34B                |                  |
| 06283   |        | XA526     | 72  |        | XA520     | 72  |      |             | 16B  | 9     |        | SPI301    | 04       | XBR3CDX | 01     | 1                | DCF | D1                  |                    | 36A                |                  |
| 20348   |        | XA526     | 72  |        |           |     |      |             |      |       |        | SPI301    | 01       | XBR4CDX | 01     | 1                | DCF | D3                  |                    | 36A                |                  |
| 20349   |        | XA526     | 72  |        |           |     |      |             |      |       |        | SPI301    | 01       | XBR5CDX | 01     | 1                | DCF | D5                  |                    | 36A                |                  |
| 20350   |        | XA526     | 72  |        |           |     |      |             |      |       |        | SPI301    | 01       | XBR6CDX | 01     | 1                | DCF | D7                  |                    | 36A                |                  |
| 06314   |        | XA526     | 73  |        | XA526     | 71  |      |             | 16B  | 9     |        | SPI309    | 15       | XBR4COX | 01     | 1                | DCF | D4                  |                    | 35B                |                  |
| 06313   |        | XA526     | 74  |        | XA526     | 73  |      |             | 16B  | 9     |        | SPI309    | 14       | XBR5COX | 01     | 1                | DCF | D6                  |                    | 37A                |                  |
| 18052   |        | XA526     | 75  |        | XA531     | 38  |      |             | 16B  | 9     |        | XBR4COX   | 01       | XBR4COX | 00     | 1                | DCF | D4                  |                    | 36B                | DEV REQ REC. 4   |
| 18074   |        | XA526     | 76  |        | XA531     | 35  |      |             | 16B  | 9     |        | XBR5COX   | 01       | XBR5COX | 00     | 1                | DCF | D6                  |                    | 38A                | DEV REQ REC. 5   |
| 18060   |        | XA526     | 77  |        |           |     |      |             |      |       |        | XBR4DB4R  | 02       |         |        |                  |     |                     |                    |                    |                  |
| 18051   |        | XA526     | 78  |        |           |     |      |             |      |       |        | XBR4CDX   | 01       | XBR4CDX | 00     | 1                | DCF | D3                  |                    | 37B                | XBR4DB4 BUSS     |
| 18056   |        | XA526     | 78  |        | XA532     | 25  |      |             | 16B  | 9     |        | XBR4CDX   | 01       | XBR4DB4 | 01     | 1                | DCF | D3                  |                    | 37B                |                  |
| 18082   |        | XA526     | 79  |        |           |     |      |             |      |       |        | XBR5DB4R  | 02       |         |        |                  |     |                     |                    | 40B                |                  |
| 18073   |        | XA526     | 80  |        |           |     |      |             |      |       |        | XBR5CDX   | 01       | XBR5CDX | 00     | 1                | DCF | D5                  |                    | 38B                | XBR5DB4 BUSS     |
| 18078   |        | XA526     | 80  |        | XA532     | 29  |      |             | 16B  | 9     |        | XBR5CDX   | 01       | XBR5DB4 | 01     | 1                | DCF | D5                  |                    | 38B                |                  |
| 10850   |        | XA527     | 01  |        | XA522     | 01  |      |             | 16B  | 9     |        | P XB03BDX | 08       | TDI3BB4 | 04     | 1                | DCF | A7                  |                    | 02A                | DEV REQ 3 TO IOC |
| 18190   |        | XA527     | 01  |        |           |     |      |             |      |       |        | XB03BDX   | 01       | XB03BDX | 00     | 1                | DCF | A7                  |                    | 02A                | TDI3BB4 BUSS     |
| 03232   |        | XA527     | 02  |        |           |     |      |             |      |       |        | GND       | 01       |         |        |                  |     |                     |                    | 01A                |                  |
| 20651   |        | XA527     | 03  |        |           |     |      |             |      |       |        | XB03BOX   | 01       | XB03BOX | 00     | 1                | DCF | A8                  |                    | 03A                |                  |
| 18048   |        | XA527     | 04  |        |           |     |      |             |      |       |        | XBR3OS    | 04       | XB03BOX | 01     | 1                | DCF | A8                  |                    | 04A                |                  |
| 03247   |        | XA527     | 05  |        |           |     |      |             |      |       |        | SPP       | 01       |         |        |                  |     |                     |                    |                    |                  |
| 17871   |        | XA527     | 06  |        | XA527     | 36  |      |             | 16B  | 9     |        | XBCSIA    | 01       | XB00BDX | 01     | 1                | DCF | A1                  |                    | 05A                |                  |
| 20622   |        | XA527     | 06  |        |           |     |      |             |      |       |        | XBCSIA    | 01       | XB02BDX | 01     | 1                | DCF | A5                  |                    | 05A                |                  |
| 20623   |        | XA527     | 06  |        |           |     |      |             |      |       |        | XBCSIA    | 01       | XB03BDX | 01     | 1                | DCF | A7                  |                    | 05A                |                  |
| 20624   |        | XA527     | 06  |        |           |     |      |             |      |       |        | XBCSIA    | 01       | XB01BDX | 01     | 1                | DCF | A3                  |                    | 05A                |                  |
| 10766   |        | XA527     | 07  |        | XA528     | 07  |      |             | 16B  | 9     |        | P XB00BDX | 05       | TDI0BB4 | 04     | 1                | DCF | A1                  |                    | 02B                | DEV REQ 0 TO IOC |
| 18151   |        | XA527     | 07  |        |           |     |      |             |      |       |        | XB00BDX   | 01       | XB00BDX | 00     | 1                | DCF | A1                  |                    | 02B                | TDI0BB4 BUSS     |
| 18023   |        | XA527     | 08  |        | XA529     | 22  |      |             | 16B  | 9     |        | XBR2OS    | 01       | XB02BOX | 01     | 1                | DCF | A6                  |                    | 06A                |                  |
| 20645   |        | XA527     | 09  |        |           |     |      |             |      |       |        | XB00BOX   | 01       | XB00BOX | 00     | 1                | DCF | A2                  |                    | 03B                |                  |
| 20649   |        | XA527     | 10  |        |           |     |      |             |      |       |        | XB02BOX   | 01       | XB02BOX | 00     | 1                | DCF | A6                  |                    | 07A                |                  |
| 17979   |        | XA527     | 11  |        | XA529     | 06  |      |             | 16B  | 9     |        | XBR0OS    | 01       | XB00BOX | 01     | 1                | DCF | A2                  |                    | 04B                |                  |
| 00699   |        | XA527     | 12  |        |           |     |      |             |      |       |        | +5V       | 01       |         |        |                  |     |                     |                    | 08A                |                  |
| 18001   |        | XA527     | 13  |        | XA529     | 01  |      |             | 16B  | 9     |        | XBR1OS    | 01       | XB01BOX | 01     | 1                | DCF | A4                  |                    | 05B                |                  |
| 10823   |        | XA527     | 14  |        | XA522     | 14  |      |             | 16B  | 9     |        | P XB02BDX | 08       | TDI2BB4 | 04     | 1                | DCF | A5                  |                    | 08B                | DEV REQ 2 TO IOC |
| 18177   |        | XA527     | 14  |        |           |     |      |             |      |       |        | XB02BDX   | 01       | XB02BDX | 00     | 1                | DCF | A5                  |                    | 08B                | TDI2BB4 BUSS     |
| 20647   |        | XA527     | 15  |        |           |     |      |             |      |       |        | XB01BOX   | 01       | XB01BOX | 00     | 1                | DCF | A4                  |                    | 06B                |                  |
| 03254   |        | XA527     | 16  |        |           |     |      |             |      |       |        | GND       | 01       |         |        |                  |     |                     |                    |                    |                  |
| 10796   |        | XA527     | 17  |        | XA522     | 17  |      |             | 16B  | 9     |        | P XB01BDX | 08       | TDI1BB4 | 04     | 1                | DCF | A3                  |                    | 07B                | DEV REQ 1 TO IOC |
| CONNECTOR XA527 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |        |           |          |         |        |                  |     |                     |                    |                    |                  |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA527  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 396

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE  |             |      | PFC INST | SIGNAL | SEQ NO  | EQUATION | TERM    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|-------|-------------|------|----------|--------|---------|----------|---------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | SH TO | MULTI GROUP | CODE |          |        |         |          |         |        |                  |       |                     |                    |                    |        |
| 18164         |        | XA527     | 17                              |        |           |     |       |             |      |          | J      | XB01BDX | 01       | XB01BDX | 00     | 1                | DCF   | A3                  | 07B                | TDI18B4 BUSS       |        |
| 01599         |        | XA527     | 18                              |        |           |     |       |             |      |          |        | DNW     | 01       |         |        |                  |       |                     |                    |                    |        |
| 03269         |        | XA527     | 19                              |        |           |     |       |             |      |          |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 01600         |        | XA527     | 20                              |        |           |     |       |             |      |          |        | DNW     | 01       |         |        |                  |       |                     |                    |                    |        |
| 03292         |        | XA527     | 21                              |        |           |     |       |             |      |          |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 01601         |        | XA527     | 22                              |        |           |     |       |             |      |          |        | DNW     | 01       |         |        |                  |       |                     |                    |                    |        |
| 10958         |        | XA527     | 23                              | XA522  | 23        |     |       | 16B         | 9    |          | P      | XB07BDX | 08       | TDI78B4 | 04     | 1                | DCF   | B7                  | 10A                | DEV REQ 7 TO IOC   |        |
| 18242         |        | XA527     | 23                              |        |           |     |       |             |      |          | J      | XB07BDX | 01       | XB07BDX | 00     | 1                | DCF   | B7                  | 10A                | TDI78B4 BUSS       |        |
| 01602         |        | XA527     | 24                              |        |           |     |       |             |      |          |        | DNW     | 01       |         |        |                  |       |                     |                    |                    |        |
| 03277         |        | XA527     | 25                              |        |           |     |       |             |      |          |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 01603         |        | XA527     | 26                              |        |           |     |       |             |      |          |        | DNW     | 01       |         |        |                  |       |                     |                    |                    |        |
| 10874         |        | XA527     | 27                              | XA528  | 27        |     |       | 16B         | 9    |          | P      | XB04BDX | 05       | TDI48B4 | 04     | 1                | DCF   | B1                  | 10B                | DEV REQ 4 TO IOC   |        |
| 18203         |        | XA527     | 27                              |        |           |     |       |             |      |          | J      | XB04BDX | 01       | XB04BDX | 00     | 1                | DCF   | B1                  | 10B                | TDI48B4 BUSS       |        |
| 00700         |        | XA527     | 28                              |        |           |     |       |             |      |          |        | +5V     | 01       |         |        |                  |       |                     |                    |                    |        |
| 20653         |        | XA527     | 29                              |        |           |     |       |             |      |          | M      | XB04BOX | 01       | XB04BOX | 00     | 1                | DCF   | B2                  | 11B                |                    |        |
| 20659         |        | XA527     | 30                              |        |           |     |       |             |      |          | M      | XB07BOX | 01       | XB07BOX | 00     | 1                | DCF   | B8                  | 11A                |                    |        |
| 18067         |        | XA527     | 31                              | XA529  | 38        |     |       | 16B         | 9    |          |        | XBR40S  | 01       | XB04BOX | 01     | 1                | DCF   | B2                  | 12B                |                    |        |
| 03060         |        | XA527     | 32                              |        |           |     |       |             |      |          |        | GND     | 01       |         |        |                  |       |                     |                    |                    |        |
| 18092         |        | XA527     | 33                              |        |           |     |       |             |      |          |        | XBR50S  | 04       | XB05BOX | 01     | 1                | DCF   | B4                  | 13B                |                    |        |
| 18132         |        | XA527     | 34                              |        |           |     |       |             |      |          |        | XBR70S  | 03       | XB07BOX | 01     | 1                | DCF   | B8                  | 12A                |                    |        |
| 20655         |        | XA527     | 35                              |        |           |     |       |             |      |          | M      | XB05BOX | 01       | XB05BOX | 00     | 1                | DCF   | B4                  | 14B                |                    |        |
| 17872         |        | XA527     | 36                              | XA529  | 74        |     |       | 16B         | 9    |          |        | XBCSIA  | 02       | XB04BDX | 01     | 1                | DCF   | B1                  | 13A                |                    |        |
| 20625         |        | XA527     | 36                              |        |           |     |       |             |      |          | M      | XBCSIA  | 01       | XB06BDX | 01     | 1                | DCF   | B5                  | 13A                |                    |        |
| 20626         |        | XA527     | 36                              |        |           |     |       |             |      |          | M      | XBCSIA  | 01       | XB05BDX | 01     | 1                | DCF   | B3                  | 13A                |                    |        |
| 20627         |        | XA527     | 36                              |        |           |     |       |             |      |          | M      | XBCSIA  | 01       | XB07BDX | 01     | 1                | DCF   | B7                  | 13A                |                    |        |
| 10904         |        | XA527     | 37                              | XA522  | 37        |     |       | 16B         | 9    |          | P      | XB05BDX | 08       | TDI58B4 | 04     | 1                | DCF   | B3                  | 15B                | DEV REQ 5 TO IOC   |        |
| 18216         |        | XA527     | 37                              |        |           |     |       |             |      |          | J      | XB05BDX | 01       | XB05BDX | 00     | 1                | DCF   | B3                  | 15B                | TDI58B4 BUSS       |        |
| 18112         |        | XA527     | 38                              |        |           |     |       |             |      |          |        | XBR60S  | 03       | XB06BOX | 01     | 1                | DCF   | B6                  | 14A                |                    |        |
| 03301         |        | XA527     | 39                              |        |           |     |       |             |      |          |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 20657         |        | XA527     | 40                              |        |           |     |       |             |      |          | M      | XB06BOX | 01       | XB06BOX | 00     | 1                | DCF   | B6                  | 15A                |                    |        |
| 10928         |        | XA527     | 41                              | XA528  | 41        |     |       | 16B         | 9    |          | P      | XB06BDX | 05       | TDI68B4 | 04     | 1                | DCF   | B5                  | 16A                | DEV REQ 6 TO IOC   |        |
| 18229         |        | XA527     | 41                              |        |           |     |       |             |      |          | J      | XB06BDX | 01       | XB06BDX | 00     | 1                | DCF   | B5                  | 16A                | TDI68B4 BUSS       |        |
| 03313         |        | XA527     | 42                              |        |           |     |       |             |      |          |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 08075         |        | XA527     | 43                              |        |           |     |       |             |      |          |        | SPO     | 01       |         | 00     | 1                | DCF   | C7                  | 20B                |                    |        |
| 03339         |        | XA527     | 44                              |        |           |     |       |             |      |          |        | GND     | 01       |         |        |                  |       |                     |                    |                    |        |
| 03324         |        | XA527     | 45                              |        |           |     |       |             |      |          |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 10743         |        | XA527     | 46                              | XA534  | 46        |     |       | 16B         | 9    |          | P      | XBOPADX | 04       | TDIP8B4 | 02     | 1                | DCF   | C1                  | 25B                | IOC INPUT DATA LIN |        |
| 18139         |        | XA527     | 46                              |        |           |     |       |             |      |          | J      | XBOPADX | 01       | XBOPADX | 00     | 1                | DCF   | C1                  | 25B                | TDIP8B4 BUSS       |        |
| 20643         |        | XA527     | 47                              |        |           |     |       |             |      |          | M      | XBOPA0X | 01       | XBOPA0X | 00     | 1                | DCF   | C2                  | 26B                |                    |        |
| 08076         |        | XA527     | 48                              |        |           |     |       |             |      |          |        | SPO     | 01       |         | 00     | 1                | DCF   | C8                  | 26A                |                    |        |
| 18142         |        | XA527     | 49                              |        |           |     |       |             |      |          |        | XBOPCOX | 02       | XBOPA0X | 01     | 1                | DCF   | C2                  | 27B                |                    |        |
| 06145         |        | XA527     | 50                              | XA522  | 54        |     |       | 16B         | 9    |          |        | SP1041  | 32       |         | 01     | 1                | DCF   | C8                  | 28A                |                    |        |
| 17913         |        | XA527     | 51                              |        |           |     |       |             |      |          |        | XBINCOX | 02       | XBINA0X | 01     | 1                | DCF   | C4                  | 28B                |                    |        |
| 17855         |        | XA527     | 52                              | XA529  | 51        |     |       | 16B         | 9    |          |        | XBCSDA  | 01       | XBOPADX | 01     | 1                | DCF   | C1                  | 29A                |                    |        |
| 20615         |        | XA527     | 52                              |        |           |     |       |             |      |          | M      | XBCSDA  | 01       | XBINA0X | 01     | 1                | DCF   | C3                  | 29A                |                    |        |
| 03347         |        | XA527     | 53                              |        |           |     |       |             |      |          |        | SPP     | 01       |         |        |                  |       |                     |                    |                    |        |
| 06215         |        | XA527     | 54                              | XA527  | 72        |     |       | 16B         | 9    |          |        | SP1043  | 30       |         | 01     | 1                | DCF   | C6                  | 30A                |                    |        |
| 13324         |        | XA527     | 55                              | XA534  | 55        |     |       | 16B         | 9    |          | P      | XBINA0X | 04       | TIND8B4 | 02     | 1                | DCF   | C3                  | 30B                | DEV INDICATOR TO   |        |
| 17910         |        | XA527     | 55                              |        |           |     |       |             |      |          | J      | XBINA0X | 01       | XBINA0X | 00     | 1                | DCF   | C3                  | 30B                | TIND8B4 BUSS       |        |
| 20638         |        | XA527     | 56                              |        |           |     |       |             |      |          | M      | XBINA0X | 01       | XBINA0X | 00     | 1                | DCF   | C4                  | 29B                |                    |        |
| CONNECTOR     |        | XA527     | CONTINUED ON THE NEXT PAGE **** |        |           |     |       |             |      |          |        |         |          |         |        |                  |       |                     |                    |                    |        |



TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA527  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 397

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |       |       | WIRE |       |       |   | SIGNAL    | SEQ NO | EQUATION | TERM | FACTORY | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCL OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-------|-------|------|-------|-------|---|-----------|--------|----------|------|---------|------------------|-------|---------------------|---------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN   | GROUP | CODE | COLOR | IDENT |   |           |        |          |      |         |                  |       |                     |                     |                    |        |
| 08077   |        | XA527     | 57  |        |           |       |       |      |       |       |   | SPO       | 01     |          | 00   | 1       | DCF              | C6    |                     | 31A                 |                    |        |
| 03362   |        | XA527     | 58  |        |           |       |       |      |       |       |   | GND       | 01     |          |      |         | DCF              |       |                     |                     |                    |        |
| 03369   |        | XA527     | 59  |        |           |       |       |      |       |       |   | SPP       | 01     |          |      |         | DCF              |       |                     |                     |                    |        |
| 08078   |        | XA527     | 60  |        |           |       |       |      |       |       |   | SPO       | 01     |          | 00   | 1       | DCF              | C5    |                     | 31B                 |                    |        |
| 08079   |        | XA527     | 61  |        |           |       |       |      |       |       |   | SPO       | 01     |          | 00   | 1       | DCF              | D7    |                     | 33A                 |                    |        |
| 01604   |        | XA527     | 62  |        |           |       |       |      |       |       |   | DNK       | 01     |          |      |         | DCF              |       |                     |                     |                    |        |
| 01605   |        | XA527     | 63  |        |           |       |       |      |       |       |   | DNW       | 01     |          |      |         | DCF              |       |                     |                     |                    |        |
| 01606   |        | XA527     | 64  |        |           |       |       |      |       |       |   | DNW       | 01     |          |      |         | DCF              |       |                     |                     |                    |        |
| 08080   |        | XA527     | 65  |        |           |       |       |      |       |       |   | SPO       | 01     |          | 00   | 1       | DCF              | D1    |                     | 32B                 |                    |        |
| 01607   |        | XA527     | 66  |        |           |       |       |      |       |       |   | DNW       | 01     |          |      |         | DCF              |       |                     |                     |                    |        |
| 03376   |        | XA527     | 67  |        |           |       |       |      |       |       |   | GND       | 01     |          |      |         | DCF              |       |                     |                     |                    |        |
| 08081   |        | XA527     | 68  |        |           |       |       |      |       |       |   | SPO       | 01     |          | 00   | 1       | DCF              | D8    |                     | 34A                 |                    |        |
| 08082   |        | XA527     | 69  |        |           |       |       |      |       |       |   | SPO       | 01     |          | 00   | 1       | DCF              | D2    |                     | 33B                 |                    |        |
| 05022   |        | XA527     | 70  |        |           | XA521 | 70    |      |       | 16B   | 9 | SPI005    | 19     |          | 01   | 1       | DCF              | D8    |                     | 35A                 |                    |        |
| 06130   |        | XA527     | 71  |        |           | XA529 | 69    |      |       | 16B   | 9 | SPI041    | 17     |          | 01   | 1       | DCF              | D2    |                     | 34B                 |                    |        |
| 06216   |        | XA527     | 72  |        |           | XA529 | 76    |      |       | 16B   | 9 | SPI043    | 31     |          | 01   | 1       | DCF              | D1    |                     | 36A                 |                    |        |
| 06008   |        | XA527     | 73  |        |           | XA528 | 50    |      |       | 16B   | 9 | SPI037    | 26     |          | 01   | 1       | DCF              | D4    |                     | 35B                 |                    |        |
| 05642   |        | XA527     | 74  |        |           | XA521 | 74    |      |       | 16B   | 9 | SPI026    | 34     |          | 01   | 1       | DCF              | D6    |                     | 37A                 |                    |        |
| 08083   |        | XA527     | 75  |        |           |       |       |      |       |       |   | SPO       | 01     |          | 00   | 1       | DCF              | D4    |                     | 36B                 |                    |        |
| 08084   |        | XA527     | 76  |        |           |       |       |      |       |       |   | SPO       | 01     |          | 00   | 1       | DCF              | D6    |                     | 38A                 |                    |        |
| 03383   |        | XA527     | 77  |        |           |       |       |      |       |       |   | SPP       | 01     |          |      |         | DCF              |       |                     |                     |                    |        |
| 08085   |        | XA527     | 78  |        |           |       |       |      |       |       |   | SPO       | 01     |          | 00   | 1       | DCF              | D3    |                     | 37B                 |                    |        |
| 03390   |        | XA527     | 79  |        |           |       |       |      |       |       |   | SPP       | 01     |          |      |         | DCF              |       |                     | 40B                 |                    |        |
| 08086   |        | XA527     | 80  |        |           |       |       |      |       |       |   | SPO       | 01     |          | 00   | 1       | DCF              | D5    |                     | 38B                 |                    |        |
| 10649   |        | XA528     | 01  |        |           | XA527 | 01    |      |       | 16B   | 9 | P XB03ADX | 07     | TDI38B4  | 03   | 1       | DCF              | A7    |                     | 02A                 | IOC INPUT DATA LIN |        |
| 18189   |        | XA528     | 01  |        |           |       |       |      |       |       |   | J XB03ADX | 01     | XB03ADX  | 00   | 1       | DCF              | A7    |                     | 02A                 | TDI38B4 BUSS       |        |
| 03233   |        | XA528     | 02  |        |           |       |       |      |       |       |   | GND       | 01     |          |      |         | DCF              |       |                     | 01A                 |                    |        |
| 20650   |        | XA528     | 03  |        |           |       |       |      |       |       |   | M XB03A0X | 01     | XB03A0X  | 00   | 1       | DCF              | A8    |                     | 03A                 |                    |        |
| 18193   |        | XA528     | 04  |        |           | XA530 | 23    |      |       | 16B   | 9 | XB03C0X   | 02     | XB03A0X  | 01   | 1       | DCF              | A8    |                     | 04A                 |                    |        |
| 03246   |        | XA528     | 05  |        |           |       |       |      |       |       |   | SPP       | 01     |          |      |         | DCF              |       |                     |                     |                    |        |
| 17858   |        | XA528     | 06  |        |           |       |       |      |       |       |   | XBCSDA    | 04     | XB00ADX  | 01   | 1       | DCF              | A1    |                     | 05A                 |                    |        |
| 20616   |        | XA528     | 06  |        |           |       |       |      |       |       |   | XBCSDA    | 01     | XB03ADX  | 01   | 1       | DCF              | A7    |                     | 05A                 |                    |        |
| 20617   |        | XA528     | 06  |        |           |       |       |      |       |       |   | M XBCSDA  | 01     | XB01ADX  | 01   | 1       | DCF              | A3    |                     | 05A                 |                    |        |
| 20618   |        | XA528     | 06  |        |           |       |       |      |       |       |   | M XBCSDA  | 01     | XB02ADX  | 01   | 1       | DCF              | A5    |                     | 05A                 |                    |        |
| 10767   |        | XA528     | 07  |        |           | XA534 | 07    |      |       | 16B   | 9 | P XB00ADX | 06     | TDI08B4  | 03   | 1       | DCF              | A1    |                     | 02B                 | IOC INPUT DATA LIN |        |
| 18150   |        | XA528     | 07  |        |           |       |       |      |       |       |   | J XB00ADX | 01     | XB00ADX  | 00   | 1       | DCF              | A1    |                     | 02B                 | TDI08B4 BUSS       |        |
| 18180   |        | XA528     | 08  |        |           | XA530 | 17    |      |       | 16B   | 9 | XB02C0X   | 02     | XB02A0X  | 01   | 1       | DCF              | A6    |                     | 06A                 |                    |        |
| 20644   |        | XA528     | 09  |        |           |       |       |      |       |       |   | M XB00A0X | 01     | XB00A0X  | 00   | 1       | DCF              | A2    |                     | 03B                 |                    |        |
| 20648   |        | XA528     | 10  |        |           |       |       |      |       |       |   | M XB02A0X | 01     | XB02A0X  | 00   | 1       | DCF              | A6    |                     | 07A                 |                    |        |
| 18154   |        | XA528     | 11  |        |           | XA530 | 03    |      |       | 16B   | 9 | XB00C0X   | 02     | XB03A0X  | 01   | 1       | DCF              | A2    |                     | 04B                 |                    |        |
| 00701   |        | XA528     | 12  |        |           |       |       |      |       |       |   | +5V       | 01     |          |      |         | DCF              |       |                     | 08A                 |                    |        |
| 18167   |        | XA528     | 13  |        |           | XA530 | 11    |      |       | 16B   | 9 | XB01C0X   | 02     | XB01A0X  | 01   | 1       | DCF              | A4    |                     | 05B                 |                    |        |
| 10822   |        | XA528     | 14  |        |           | XA527 | 14    |      |       | 16B   | 9 | P XB02ADX | 07     | TDI28B4  | 03   | 1       | DCF              | A5    |                     | 08B                 | IOC INPUT DATA LIN |        |
| 18176   |        | XA528     | 14  |        |           |       |       |      |       |       |   | J XB02ADX | 01     | XB02ADX  | 00   | 1       | DCF              | A5    |                     | 08B                 | TDI28B4 BUSS       |        |
| 20646   |        | XA528     | 15  |        |           |       |       |      |       |       |   | M XB01A0X | 01     | XB01A0X  | 00   | 1       | DCF              | A4    |                     | 06B                 |                    |        |
| 03255   |        | XA528     | 16  |        |           |       |       |      |       |       |   | GND       | 01     |          |      |         | DCF              |       |                     |                     |                    |        |
| 10795   |        | XA528     | 17  |        |           | XA527 | 17    |      |       | 16B   | 9 | P XB01ADX | 07     | TDI18B4  | 03   | 1       | DCF              | A3    |                     | 07B                 | IOC INPUT DATA LIN |        |
| 18163   |        | XA528     | 17  |        |           |       |       |      |       |       |   | J XB01A0X | 01     | XB01ADX  | 00   | 1       | DCF              | A3    |                     | 07B                 | TDI18B4 BUSS       |        |
| CONNECTOR (XA528) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |       |       |      |       |       |   |           |        |          |      |         |                  |       |                     |                     |                    |        |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA528  
 UNIT ASSEMBLY NAME CARD CAGE ASSY,I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 398

| RECORD NUMBER                                     | FROM   |           |     | SH.FE. | TO     |           |     | SH.FE. | WIRE        |      |       |       | S.F. INST. VALUE | SIGNAL | SFQ NO. | EQUATION | TERM. | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PL. LINE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|--------|--------|-----------|-----|--------|-------------|------|-------|-------|------------------|--------|---------|----------|-------|--------|------------------|-------|------------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN |        | PREFIX | CONNECTOR | PIN |        | MULTI GROUP | CODE | COLOR | IDENT |                  |        |         |          |       |        |                  |       |                        |                    |                    |         |
| 01608   |        | XA528     | 18  |        |        |           |     |        |             |      |       |       | DNW              | 01     |         |          |       |        | DCF              |       |                        |                    |                    |         |
| 03268   |        | XA528     | 19  |        |        |           |     |        |             |      |       |       | SPP              | 01     |         |          |       |        | DCF              |       |                        |                    |                    |         |
| 01609   |        | XA528     | 20  |        |        |           |     |        |             |      |       |       | DNW              | 01     |         |          |       |        | DCF              |       |                        |                    |                    |         |
| 03291   |        | XA528     | 21  |        |        |           |     |        |             |      |       |       | SPP              | 01     |         |          |       |        | DCF              |       |                        |                    |                    |         |
| 01610   |        | XA528     | 22  |        |        |           |     |        |             |      |       |       | DNW              | 01     |         |          |       |        | DCF              |       |                        |                    |                    |         |
| 10957   |        | XA528     | 23  |        | XA527  | 23        |     |        | 16B         | 9    |       | P     | XB07ADX          | 07     | TDI7BB4 | 03       | 1     | DCF    | B7               |       | 10A                    | IOC INPUT DATA LIN |                    |         |
| 18241   |        | XA528     | 23  |        |        |           |     |        |             |      |       | J     | XB07ADX          | 01     | XB07ADX | 00       | 1     | DCF    | B7               |       | 10A                    | TDI7BB4 BUSS       |                    |         |
| 01611   |        | XA528     | 24  |        |        |           |     |        |             |      |       |       | DNW              | 01     |         |          |       | DCF    |                  |       |                        |                    |                    |         |
| 03278   |        | XA528     | 25  |        |        |           |     |        |             |      |       |       | SPP              | 01     |         |          |       | DCF    |                  |       |                        |                    |                    |         |
| 01612   |        | XA528     | 26  |        |        |           |     |        |             |      |       |       | DNW              | 01     |         |          |       | DCF    |                  |       |                        |                    |                    |         |
| 10875   |        | XA528     | 27  |        | XA534  | 27        |     |        | 16B         | 9    |       | P     | XB04ADX          | 06     | TDI4BB4 | 03       | 1     | DCF    | B1               |       | 10B                    | IOC INPUT DATA LIN |                    |         |
| 18202   |        | XA528     | 27  |        |        |           |     |        |             |      |       | J     | XB04ADX          | 01     | XB04ADX | 00       | 1     | DCF    | B1               |       | 10B                    | TDI4BB4 BUSS       |                    |         |
| 00702   |        | XA528     | 28  |        |        |           |     |        |             |      |       |       | +5V              | 01     |         |          |       | DCF    |                  |       |                        | 21B                |                    |         |
| 20652   |        | XA528     | 29  |        |        |           |     |        |             |      |       | M     | XB04A0X          | 01     | XB04A0X | 00       | 1     | DCF    | B2               |       |                        | 11B                |                    |         |
| 20658   |        | XA528     | 30  |        |        |           |     |        |             |      |       | M     | XB07A0X          | 01     | XB07A0X | 00       | 1     | DCF    | B8               |       |                        | 11A                |                    |         |
| 18206   |        | XA528     | 31  |        | XA530  | 29        |     |        | 16B         | 9    |       |       | XB04C0X          | 02     | XB04A0X | 01       | 1     | DCF    | B2               |       |                        | 12B                |                    |         |
| 03061   |        | XA528     | 32  |        |        |           |     |        |             |      |       |       | GND              | 01     |         |          |       | DCF    |                  |       |                        |                    |                    |         |
| 18219   |        | XA528     | 33  |        | XA530  | 35        |     |        | 16B         | 9    |       |       | XB05C0X          | 02     | XB05A0X | 01       | 1     | DCF    | B4               |       |                        | 13B                |                    |         |
| 18245   |        | XA528     | 34  |        | XA530  | 47        |     |        | 16B         | 9    |       |       | XB07C0X          | 02     | XB07A0X | 01       | 1     | DCF    | B8               |       |                        | 12A                |                    |         |
| 20654   |        | XA528     | 35  |        |        |           |     |        |             |      |       | M     | XB05A0X          | 01     | XB05A0X | 00       | 1     | DCF    | B4               |       |                        | 14B                |                    |         |
| 17857   |        | XA528     | 36  |        | XA528  | 06        |     |        | 16B         | 9    |       |       | XBCSDA           | 03     | XB04ADX | 01       | 1     | DCF    | B1               |       |                        | 13A                |                    |         |
| 20619   |        | XA528     | 36  |        |        |           |     |        |             |      |       | M     | XBCSDA           | 01     | XB05ADX | 01       | 1     | DCF    | B3               |       |                        | 13A                |                    |         |
| 20620   |        | XA528     | 36  |        |        |           |     |        |             |      |       | M     | XBCSDA           | 01     | XB07ADX | 01       | 1     | DCF    | B7               |       |                        | 13A                |                    |         |
| 20621   |        | XA528     | 36  |        |        |           |     |        |             |      |       | M     | XBCSDA           | 01     | XB06ADX | 01       | 1     | DCF    | B5               |       |                        | 13A                |                    |         |
| 10903   |        | XA528     | 37  |        | XA527  | 37        |     |        | 16B         | 9    |       | P     | XB05ADX          | 07     | TDI5BB4 | 03       | 1     | DCF    | B3               |       | 15B                    | IOC INPUT DATA LIN |                    |         |
| 18215   |        | XA528     | 37  |        |        |           |     |        |             |      |       | J     | XB05ADX          | 01     | XB05ADX | 00       | 1     | DCF    | B3               |       | 15B                    | TDI5BB4 BUSS       |                    |         |
| 18232   |        | XA528     | 38  |        | XA526  | 40        |     |        | 16B         | 9    |       |       | XB06C0X          | 02     | XB06A0X | 01       | 1     | DCF    | B6               |       |                        | 14A                |                    |         |
| 03302   |        | XA528     | 39  |        |        |           |     |        |             |      |       |       | SPP              | 01     |         |          |       | DCF    |                  |       |                        |                    |                    |         |
| 20656   |        | XA528     | 40  |        |        |           |     |        |             |      |       | M     | XB06A0X          | 01     | XB06A0X | 00       | 1     | DCF    | B6               |       |                        | 15A                |                    |         |
| 10929   |        | XA528     | 41  |        | XA534  | 41        |     |        | 16B         | 9    |       | P     | XB06ADX          | 06     | TDI6BB4 | 03       | 1     | DCF    | B5               |       | 16A                    | IOC INPUT DATA LIN |                    |         |
| 18228   |        | XA528     | 41  |        |        |           |     |        |             |      |       | J     | XB06ADX          | 01     | XB06ADX | 00       | 1     | DCF    | B5               |       | 16A                    | TDI6BB4 BUSS       |                    |         |
| 03314   |        | XA528     | 42  |        |        |           |     |        |             |      |       |       | SPP              | 01     |         |          |       | DCF    |                  |       |                        | 20B                |                    |         |
| 08087   |        | XA528     | 43  |        |        |           |     |        |             |      |       |       | SPO              | 01     |         |          | 00    | 1      | DCF              | C7    |                        | 25A                |                    |         |
| 03338   |        | XA528     | 44  |        |        |           |     |        |             |      |       |       | GND              | 01     |         |          |       | DCF    |                  |       |                        |                    |                    |         |
| 03325   |        | XA528     | 45  |        |        |           |     |        |             |      |       |       | SPP              | 01     |         |          |       | DCF    |                  |       |                        | 27A                |                    |         |
| 15350   |        | XA528     | 46  |        | XA430  | 38        |     |        | 16B         | 9    |       | P     | XBREADX          | 01     | TRQ2BB4 | 01       | 1     | DCF    | C1               |       | 25B                    | IOE REQ TO IOC     |                    |         |
| 17946   |        | XA528     | 46  |        |        |           |     |        |             |      |       | J     | XBREADX          | 01     | XBREADX | 00       | 1     | DCF    | C1               |       | 25B                    | TRQ2BB4 BUSS       |                    |         |
| 20639   |        | XA528     | 47  |        |        |           |     |        |             |      |       | M     | XBREA0X          | 01     | XBREA0X | 00       | 1     | DCF    | C2               |       |                        | 26B                |                    |         |
| 08088   |        | XA528     | 48  |        |        |           |     |        |             |      |       |       | SPO              | 01     |         |          | 00    | 1      | DCF              | C8    |                        | 26A                |                    |         |
| 17948   |        | XA528     | 49  |        |        |           |     |        |             |      |       |       | XBREC0           | 02     | XBREA0X | 01       | 1     | DCF    | C2               |       |                        | 27B                |                    |         |
| 06009   |        | XA528     | 50  |        | XA522  | 50        |     |        | 16B         | 9    |       |       | SPI037           | 27     |         |          | 01    | 1      | DCF              | C8    |                        | 28A                |                    |         |
| 06214   |        | XA528     | 51  |        | XA527  | 54        |     |        | 16B         | 9    |       |       | SPI043           | 29     |         |          | 01    | 1      | DCF              | C4    |                        | 28B                |                    |         |
| 17896   |        | XA528     | 52  |        | XA531  | 19        |     |        | 16B         | 9    |       |       | XBGND            | 06     | XBREADX | 01       | 1     | DCF    | C1               |       |                        | 29A                |                    |         |
| 03348   |        | XA528     | 53  |        |        |           |     |        |             |      |       |       | SPP              | 01     |         |          |       | DCF    |                  |       |                        |                    |                    |         |
| 06144   |        | XA528     | 54  |        | XA527  | 50        |     |        | 16B         | 9    |       |       | SPI041           | 31     |         |          | 01    | 1      | DCF              | C6    |                        | 30A                |                    |         |
| 08089   |        | XA528     | 55  |        |        |           |     |        |             |      |       |       | SPO              | 01     |         |          | 00    | 1      | DCF              | C3    |                        | 30B                |                    |         |
| 08090   |        | XA528     | 56  |        |        |           |     |        |             |      |       |       | SPO              | 01     |         |          | 00    | 1      | DCF              | C4    |                        | 29B                |                    |         |
| 08091   |        | XA528     | 57  |        |        |           |     |        |             |      |       |       | SPO              | 01     |         |          | 00    | 1      | DCF              | C6    |                        | 31A                |                    |         |
| 03361   |        | XA528     | 58  |        |        |           |     |        |             |      |       |       | GND              | 01     |         |          |       | DCF    |                  |       |                        |                    |                    |         |
| 17890   |        | XA528     | 59  |        |        |           |     |        |             |      |       |       | XBENDB4R         | 02     |         |          |       | DCF    |                  |       |                        |                    |                    |         |
| CONNECTOR (XA528) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |           |     |        |             |      |       |       |                  |        |         |          |       |        |                  |       |                        |                    |                    |         |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA528  
 UNIT ASSEMBLY NAME CARD CAGE ASSY,I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 399

| RECORD NUMBER | FROM   |                                 |     | TO     |           |     | WIRE |             |      |       | SPEC INST | SIGNAL   | SEQ NO | EQUATION | TERM | PLATE | CKT OR CHG TYPE | PLUM | LOAD OR POWER PLANE | TEST POINTS (AND) 3P | SIGNAL DESCRIPTION  | ECC NO |
|---------------|--------|---------------------------------|-----|--------|-----------|-----|------|-------------|------|-------|-----------|----------|--------|----------|------|-------|-----------------|------|---------------------|----------------------|---------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR |           |          |        |          |      |       |                 |      |                     |                      |                     |        |
| 08092         |        | XA528                           | 60  |        |           |     |      |             |      |       |           | SPO      | 01     |          |      |       |                 |      |                     | 31B                  |                     |        |
| 17883         |        | XA528                           | 61  |        |           |     |      |             |      |       | J         | XBENCDCX | 01     | XBENCDCX | 00   | 1     | DCF             | C5   |                     | 33A                  | XBENDB4 BUSS        |        |
| 17887         |        | XA528                           | 61  |        | XA401     | 75  |      |             | 16B  | 9     | P         | XBENCDCX | 02     | XBENDB4  | 01   | 1     | DCF             | D7   |                     | 33A                  | DEV ENABLE LINE A01 |        |
| 01613         |        | XA528                           | 62  |        |           |     |      |             |      |       |           | DNW      | 01     |          |      |       |                 |      |                     |                      |                     |        |
| 01614         |        | XA528                           | 63  |        |           |     |      |             |      |       |           | DNW      | 01     |          |      |       |                 |      |                     |                      |                     |        |
| 01615         |        | XA528                           | 64  |        |           |     |      |             |      |       |           | DNW      | 01     |          |      |       |                 |      |                     |                      |                     |        |
| 18115         |        | XA528                           | 65  |        |           |     |      |             |      |       | J         | XBR7CDX  | 01     | XBR7CDX  | 00   | 1     | DCF             | D1   |                     | 32B                  | XBR7DB4 BUSS        |        |
| 18121         |        | XA528                           | 65  |        | XA401     | 73  |      |             | 16B  | 9     | P         | XBR7CDX  | 02     | XBR7DB4  | 01   | 1     | DCF             | D1   |                     | 32B                  | A01                 |        |
| 01616         |        | XA528                           | 66  |        |           |     |      |             |      |       |           | DNW      | 01     |          |      |       |                 |      |                     |                      |                     |        |
| 18124         |        | XA528                           | 67  |        |           |     |      |             |      |       |           | XBR7DB4R | 02     |          |      |       |                 |      |                     |                      |                     |        |
| 21305         |        | XA528                           | 67  |        |           |     |      |             |      |       |           | GND      | 01     |          |      |       |                 |      |                     |                      |                     |        |
| 20637         |        | XA528                           | 68  |        |           |     |      |             |      |       | M         | XBENCOX  | 01     | XBENCOX  | 00   | 1     | DCF             | D8   |                     | 34A                  |                     |        |
| 18116         |        | XA528                           | 69  |        | XA531     | 47  |      |             | 16B  | 9     |           | XBR7COX  | 01     | XBR7COX  | 00   | 1     | DCF             | D2   |                     | 33B                  | DEV REQ REC. 7      |        |
| 17878         |        | XA528                           | 70  |        | XA530     | 63  |      |             | 16B  | 9     |           | XBENA0   | 01     | XBENCOX  | 01   | 1     | DCF             | D8   |                     | 35A                  |                     |        |
| 17892         |        | XA528                           | 71  |        | XA526     | 51  |      |             | 16B  | 9     |           | XBGND4   | 02     | XBR7COX  | 01   | 1     | DCF             | D2   |                     | 34B                  |                     |        |
| 18133         |        | XA528                           | 72  |        | XA530     | 60  |      |             | 16B  | 9     |           | XBSTBA   | 01     | XBR7COX  | 01   | 1     | DCF             | D1   |                     | 36A                  |                     |        |
| 20640         |        | XA528                           | 72  |        |           |     |      |             |      |       | M         | XBSTBA   | 01     | XBINCDCX | 01   | 1     | DCF             | D3   |                     | 36A                  |                     |        |
| 20641         |        | XA528                           | 72  |        |           |     |      |             |      |       | M         | XBSTBA   | 01     | XBENCDCX | 01   | 1     | DCF             | D7   |                     | 36A                  |                     |        |
| 20642         |        | XA528                           | 72  |        |           |     |      |             |      |       | M         | XBSTBA   | 01     | XBCMCDX  | 01   | 1     | DCF             | D5   |                     | 36A                  |                     |        |
| 17891         |        | XA528                           | 73  |        | XA528     | 71  |      |             | 16B  | 9     |           | XBGND4   | 01     | XBINCDCX | 01   | 1     | DCF             | D4   |                     | 35B                  |                     |        |
| 17841         |        | XA528                           | 74  |        |           |     |      |             |      |       |           | XBCMA0   | 02     | XBCMCOX  | 01   | 1     | DCF             | D6   |                     | 37A                  |                     |        |
| 17912         |        | XA528                           | 75  |        | XA527     | 51  |      |             | 16B  | 9     |           | XBINCDCX | 01     | XBINCDCX | 01   | 1     | DCF             | D4   |                     | 36B                  | DEV INDICATOR REC.  |        |
| 20614         |        | XA528                           | 76  |        |           |     |      |             |      |       | M         | XBCMCOX  | 01     | XBCMCOX  | 00   | 1     | DCF             | D6   |                     | 38A                  |                     |        |
| 17920         |        | XA528                           | 77  |        |           |     |      |             |      |       |           | XBINDB4R | 02     |          |      |       |                 |      |                     |                      |                     |        |
| 17911         |        | XA528                           | 78  |        |           |     |      |             |      |       | J         | XBINCDCX | 01     | XBINCDCX | 00   | 1     | DCF             | D3   |                     | 37E                  | XBINDB4 BUSS        |        |
| 17917         |        | XA528                           | 78  |        | XA401     | 79  |      |             | 16B  | 9     | P         | XBINCDCX | 02     | XBINDB4  | 01   | 1     | DCF             | D3   |                     | 37E                  | A01                 |        |
| 17849         |        | XA528                           | 79  |        |           |     |      |             |      |       |           | XBCMDB4R | 02     |          |      |       |                 |      |                     | 40B                  |                     |        |
| 17842         |        | XA528                           | 80  |        |           |     |      |             |      |       | J         | XBCMCDX  | 01     | XBCMCDX  | 00   | 1     | DCF             | D5   |                     | 38B                  | XBCMDB4 BUSS        |        |
| 17845         |        | XA528                           | 80  |        | XA532     | 37  |      |             | 16B  | 9     | P         | XBCMCDX  | 01     | XBCMDB4  | 01   | 1     | DCF             | D5   |                     | 38B                  | DEV COMMAND LINE    |        |
| 18002         |        | XA529                           | 01  |        | XA530     | 01  |      |             | 16B  | 9     |           | XBR10S   | 02     | XBR10R   | 01   | 1     | TT3             | A2   |                     | 02B                  |                     |        |
| 03062         |        | XA529                           | 02  |        |           |     |      |             |      |       |           | GND      | 01     |          |      |       |                 |      |                     | 01B                  |                     |        |
| 17996         |        | XA529                           | 03  |        |           |     |      |             |      |       |           | XBR1RA   | 02     | XBR10R   | 01   | 2     | TT3             | A2   |                     | 02A                  |                     |        |
| 17978         |        | XA529                           | 04  |        |           |     |      |             |      |       |           | XBR00R   | 02     | XBR00R   | 00   | 1     | TT3             | A1   |                     | 04A                  |                     |        |
| 17931         |        | XA529                           | 05  |        | XA529     | 10  |      |             | 16B  | 9     |           | XBMRCA   | 01     | XBR10R   | 01   | 3     | TT3             | A2   |                     | 03B                  |                     |        |
| 17980         |        | XA529                           | 06  |        | XA530     | 06  |      |             | 16B  | 9     |           | XBR00S   | 02     | XBR00R   | 01   | 1     | TT3             | A1   |                     | 05A                  |                     |        |
| 18000         |        | XA529                           | 07  |        |           |     |      |             |      |       |           | XBR10R   | 02     | XBR10R   | 00   | 1     | TT3             | A2   |                     | 03A                  |                     |        |
| 17974         |        | XA529                           | 08  |        |           |     |      |             |      |       |           | XBR0RA   | 02     | XBR00R   | 01   | 2     | TT3             | A1   |                     | 06A                  |                     |        |
| 17975         |        | XA529                           | 09  |        | XA531     | 03  |      |             | 16B  | 9     |           | XBR0QA   | 01     | XBRE10   | 01   | 1     | TT3             | A3   |                     | 04B                  |                     |        |
| 17937         |        | XA529                           | 10  |        | XA529     | 18  |      |             | 16B  | 9     |           | XBMRCA   | 02     | XBR00R   | 01   | 3     | TT3             | A1   |                     | 07A                  |                     |        |
| 17997         |        | XA529                           | 11  |        | XA531     | 01  |      |             | 16B  | 9     |           | XBR10A   | 01     | XBRE10   | 01   | 2     | TT3             | A3   |                     | 05B                  |                     |        |
| 00703         |        | XA529                           | 12  |        |           |     |      |             |      |       |           | +5V      | 01     |          |      |       |                 |      |                     |                      |                     |        |
| 18019         |        | XA529                           | 13  |        | XA531     | 18  |      |             | 16B  | 9     |           | XBR20A   | 01     | XBRE10   | 01   | 3     | TT3             | A3   |                     | 06B                  |                     |        |
| 18047         |        | XA529                           | 14  |        | XA527     | 04  |      |             | 16B  | 9     |           | XBR30S   | 03     | XBR30R   | 01   | 1     | TT3             | B2   |                     | 09A                  | DEV REQ 3           |        |
| 17951         |        | XA529                           | 15  |        | XA531     | 27  |      |             | 16B  | 9     |           | XBRE10   | 01     | XBRE10   | 00   | 1     | TT3             | A3   |                     | 07B                  | DEV REQ 0+1+2       |        |
| 03063         |        | XA529                           | 16  |        |           |     |      |             |      |       |           | GND      | 01     |          |      |       |                 |      |                     | 21B                  |                     |        |
| 18040         |        | XA529                           | 17  |        |           |     |      |             |      |       |           | XBR3RA   | 02     | XBR30R   | 01   | 2     | TT3             | B2   |                     | 08B                  |                     |        |
| 17933         |        | XA529                           | 18  |        | XA529     | 26  |      |             | 16B  | 9     |           | XBMRCA   | 03     | XBR30R   | 01   | 3     | TT3             | B2   |                     | 10A                  |                     |        |
| 18044         |        | XA529                           | 19  |        |           |     |      |             |      |       |           | XBR30R   | 02     | XBR30R   | 00   | 1     | TT3             | B2   |                     | 09B                  |                     |        |
| CONNECTOR     | XA529  | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |      |             |      |       |           |          |        |          |      |       |                 |      |                     |                      |                     |        |

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DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA529  
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| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST. WIRE | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | INFO | PREFIX | CONNECTOR | PIN | INFO | MULTI-GROUP | CODE | COLOR | IDENT |                |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 18022         |        | XA529     | 20                              |      |        |           |     |      |             |      |       |       | XBR20R         | 02     | XBR20R | 00       | 1    | TT3    | B1               |       | 11A                 |                    |                    |        |
| 18041         |        | XA529     | 21                              |      | XA531  | 14        |     |      |             | 16B  | 9     |       | XBR30A         | 01     | XBRE20 | 01       | 1    | TT3    | B3               |       | 10B                 |                    |                    |        |
| 18024         |        | XA529     | 22                              |      | XA530  | 22        |     |      |             | 16B  | 9     |       | XBR20S         | 02     | XBR20R | 01       | 1    | TT3    | B1               |       | 12A                 |                    |                    |        |
| 18063         |        | XA529     | 23                              |      | XA531  | 34        |     |      |             | 16B  | 9     |       | XBR40A         | 01     | XBRE20 | 01       | 2    | TT3    | B3               |       | 11B                 |                    |                    |        |
| 18018         |        | XA529     | 24                              |      |        |           |     |      |             |      |       |       | XBR2RA         | 02     | XBR20R | 01       | 2    | TT3    | B1               |       | 13A                 |                    |                    |        |
| 18085         |        | XA529     | 25                              |      | XA531  | 30        |     |      |             | 16B  | 9     |       | XBR50A         | 01     | XBRE20 | 01       | 3    | TT3    | B3               |       | 12B                 |                    |                    |        |
| 17934         |        | XA529     | 26                              |      | XA529  | 34        |     |      |             | 16B  | 9     |       | XBMRC A        | 04     | XBR20R | 01       | 3    | TT3    | B1               |       | 14A                 |                    |                    |        |
| 17955         |        | XA529     | 27                              |      | XA531  | 33        |     |      |             | 16B  | 9     |       | XBRE20         | 01     | XBRE20 | 00       | 1    | TT3    | B3               |       | 13B                 | DEV REQ 3+4+5      |                    |        |
| 00704         |        | XA529     | 28                              |      |        |           |     |      |             |      |       |       | +5V            | 01     |        |          |      | TT3    |                  |       |                     |                    |                    |        |
| 18091         |        | XA529     | 29                              |      | XA527  | 33        |     |      |             | 16B  | 9     |       | XBR50S         | 03     | XBR50R | 01       | 1    | TT3    | C2               |       | 14B                 |                    |                    |        |
| 18084         |        | XA529     | 30                              |      |        |           |     |      |             |      |       |       | XBR5RA         | 02     | XBR50R | 01       | 2    | TT3    | C2               |       | 15A                 |                    |                    |        |
| 18088         |        | XA529     | 31                              |      |        |           |     |      |             |      |       |       | XBR50R         | 02     | XBR50R | 00       | 1    | TT3    | C2               |       | 15B                 |                    |                    |        |
| 03064         |        | XA529     | 32                              |      |        |           |     |      |             |      |       |       | GND            | 01     |        |          |      | TT3    |                  |       | 27A                 |                    |                    |        |
| 17950         |        | XA529     | 33                              |      |        |           |     |      |             |      |       |       | XBRE1A         | 02     | XBRECO | 01       | 1    | TT3    | C3               |       | 16B                 |                    |                    |        |
| 17935         |        | XA529     | 34                              |      | XA529  | 42        |     |      |             | 16B  | 9     |       | XBMRC A        | 05     | XBR50R | 01       | 3    | TT3    | C2               |       | 16A                 |                    |                    |        |
| 17953         |        | XA529     | 35                              |      | XA531  | 31        |     |      |             | 16B  | 9     |       | XBRE2A         | 01     | XBRECO | 01       | 2    | TT3    | C3               |       | 17B                 |                    |                    |        |
| 18066         |        | XA529     | 36                              |      |        |           |     |      |             |      |       |       | XBR40R         | 02     | XBR40R | 00       | 1    | TT3    | C1               |       | 17A                 |                    |                    |        |
| 17957         |        | XA529     | 37                              |      | XA531  | 42        |     |      |             | 16B  | 9     |       | XBRE3A         | 01     | XBRECO | 01       | 3    | TT3    | C3               |       | 18B                 |                    |                    |        |
| 18068         |        | XA529     | 38                              |      | XA530  | 38        |     |      |             | 16B  | 9     |       | XBR40S         | 02     | XBR40R | 01       | 1    | TT3    | C1               |       | 18A                 |                    |                    |        |
| 17947         |        | XA529     | 39                              |      | XA528  | 49        |     |      |             | 16B  | 9     |       | XBRECO         | 01     | XBRECO | 00       | 1    | TT3    | C3               |       | 19B                 | DEV OR D REQ       |                    |        |
| 18062         |        | XA529     | 40                              |      |        |           |     |      |             |      |       |       | XBR4RA         | 02     | XBR40R | 01       | 2    | TT3    | C1               |       | 19A                 |                    |                    |        |
| 18131         |        | XA529     | 41                              |      | XA527  | 34        |     |      |             | 16B  | 9     |       | XBR70S         | 02     | XBR70R | 01       | 1    | TT3    | D2               |       | 22B                 |                    |                    |        |
| 17936         |        | XA529     | 42                              |      | XA529  | 48        |     |      |             | 16B  | 9     |       | XBMRC A        | 06     | XBR40R | 01       | 3    | TT3    | C1               |       | 20A                 |                    |                    |        |
| 18127         |        | XA529     | 43                              |      | XA530  | 50        |     |      |             | 16B  | 9     |       | XBR70R         | 01     | XBR70R | 00       | 1    | TT3    | D2               |       | 23B                 |                    |                    |        |
| 03065         |        | XA529     | 44                              |      |        |           |     |      |             |      |       |       | GND            | 01     |        |          |      | TT3    |                  |       | 40A                 |                    |                    |        |
| 17909         |        | XA529     | 45                              |      |        |           |     |      |             |      |       |       | XBICSO         | 06     | XBCSDA | 01       | 1    | TT3    | D3               |       | 24B                 |                    |                    |        |
| 18126         |        | XA529     | 46                              |      |        |           |     |      |             |      |       |       | XBR7RA         | 02     | XBR70R | 01       | 2    | TT3    | D2               |       | 21A                 |                    |                    |        |
| 17903         |        | XA529     | 47                              |      |        |           |     |      |             |      |       |       | XBICRO         | 06     | XBCSOA | 01       | 2    | TT3    | D3               |       | 25B                 |                    |                    |        |
| 17937         |        | XA529     | 48                              |      | XA529  | 56        |     |      |             | 16B  | 9     |       | XBMRC A        | 07     | XBR70R | 01       | 3    | TT3    | D2               |       | 22A                 |                    |                    |        |
| 17922         |        | XA529     | 49                              |      |        |           |     |      |             |      |       |       | XBINTA         | 02     | XBCSDA | 01       | 3    | TT3    | D3               |       | 26B                 |                    |                    |        |
| 18107         |        | XA529     | 50                              |      | XA530  | 56        |     |      |             | 16B  | 9     |       | XBR60R         | 01     | XBR60R | 00       | 1    | TT3    | D1               |       | 23A                 |                    |                    |        |
| 17856         |        | XA529     | 51                              |      | XA528  | 36        |     |      |             | 16B  | 9     |       | XBCSDA         | 02     | XBCSDA | 00       | 1    | TT3    | D3               |       | 27B                 | CH.SEL.INTER*      |                    |        |
| 18111         |        | XA529     | 52                              |      | XA527  | 38        |     |      |             | 16B  | 9     |       | XBR60S         | 02     | XBR60R | 01       | 1    | TT3    | D1               |       | 24A                 |                    |                    |        |
| 17908         |        | XA529     | 53                              |      | XA529  | 45        |     |      |             | 16B  | 9     |       | XBICSO         | 05     | XBCSEA | 01       | 1    | TT3    | E2               |       | 28B                 |                    |                    |        |
| 18106         |        | XA529     | 54                              |      |        |           |     |      |             |      |       |       | XBR6RA         | 02     | XBR60R | 01       | 2    | TT3    | D1               |       | 25A                 |                    |                    |        |
| 17861         |        | XA529     | 55                              |      |        |           |     |      |             |      |       |       | XBCSEA         | 03     | XBCSEA | 00       | 1    | TT3    | E2               |       | 29B                 | CH.SEL.ENABLE      |                    |        |
| 17938         |        | XA529     | 56                              |      | XA530  | 72        |     |      |             | 16B  | 9     |       | XBMRC A        | 08     | XBR60R | 01       | 3    | TT3    | D1               |       | 26A                 |                    |                    |        |
| 17880         |        | XA529     | 57                              |      | XA529  | 62        |     |      |             | 16B  | 9     |       | XBENB0         | 01     | XBMRDA | 01       | 1    | TT3    | E3               |       | 30B                 |                    |                    |        |
| 03066         |        | XA529     | 58                              |      |        |           |     |      |             |      |       |       | GND            | 01     |        |          |      | TT3    |                  |       | 40B                 |                    |                    |        |
| 17851         |        | XA529     | 59                              |      | XA531  | 68        |     |      |             | 16B  | 9     |       | XB CMD0        | 02     | XBMRDA | 01       | 2    | TT3    | E3               |       | 31B                 |                    |                    |        |
| 17901         |        | XA529     | 60                              |      | XA531  | 63        |     |      |             | 16B  | 9     |       | XBICRO         | 04     | XBCSEA | 01       | 2    | TT3    | E2               |       | 28A                 |                    |                    |        |
| 06213         |        | XA529     | 61                              |      | XA528  | 51        |     |      |             | 16B  | 9     |       | SPI043         | 28     | XBMRDA | 01       | 3    | TT3    | E3               |       | 32B                 |                    |                    |        |
| 17881         |        | XA529     | 62                              |      | XA531  | 57        |     |      |             | 16B  | 9     |       | XBENB0         | 02     | XBCSEA | 01       | 3    | TT3    | E2               |       | 29A                 |                    |                    |        |
| 17941         |        | XA529     | 63                              |      | XA530  | 61        |     |      |             | 16B  | 9     |       | XBMRDA         | 02     | XBMRDA | 00       | 1    | TT3    | E3               |       | 33B                 | DEV RESET          |                    |        |
| 17877         |        | XA529     | 64                              |      |        |           |     |      |             |      |       |       | XBCSSA         | 04     | XBCSSA | 00       | 1    | TT3    | E1               |       | 30A                 | CH.SEL.STROBE      |                    |        |
| 17906         |        | XA529     | 65                              |      | XA529  | 75        |     |      |             | 16B  | 9     |       | XBICSO         | 03     | XBCSIA | 01       | 1    | TT3    | F2               |       | 34B                 |                    |                    |        |
| 17905         |        | XA529     | 66                              |      | XA529  | 65        |     |      |             | 16B  | 9     |       | XBICSO         | 02     | XBCSSA | 01       | 1    | TT3    | E1               |       | 31A                 |                    |                    |        |
| 03067         |        | XA529     | 67                              |      |        |           |     |      |             |      |       |       | GND            | 01     |        |          |      | TT3    |                  |       |                     |                    |                    |        |
| 17900         |        | XA529     | 68                              |      | XA529  | 60        |     |      |             | 16B  | 9     |       | XBICRO         | 03     | XBCSSA | 01       | 2    | TT3    | E1               |       | 32A                 |                    |                    |        |
| 06131         |        | XA529     | 69                              |      | XA530  | 74        |     |      |             | 16B  | 9     |       | SPI041         | 18     |        | 01       | 1    | TT3    | F3               |       | 35A                 |                    |                    |        |
| CONNECTOR     |        | XA529     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |                |        |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA529  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 401

| RECORD NUMBER | FROM   |                                 |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM FACTOR | CCT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANGLE OR | SIGNAL DESCRIPTION | ECO NO |                |                |
|---------------|--------|---------------------------------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|---------|----------|-------------|------------------|-------|---------------------|----------------------|--------------------|--------|----------------|----------------|
|               | PREFIX | CONNECTOR                       | PIN | PLATE | PREFIX | CONNECTOR | PIN | PLATE | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |             |                  |       |                     |                      |                    |        | SP. DIST. INCH |                |
| 18136         |        | XA529                           | 70  |       | XA530  | 64        |     |       |             | 16B  | 9     |       |        | XBSTB0  | 02       | XBCSSA      | 01               | 3     | TT3                 | E1                   |                    | 33A    |                |                |
| 17899         |        | XA529                           | 71  |       | XA529  | 68        |     |       |             | 16B  | 9     |       |        | XBICRO  | 02       | XBCSIA      | 01               | 2     | TT3                 | F2                   |                    | 34A    |                |                |
| 17925         |        | XA529                           | 72  |       |        |           |     |       |             |      |       |       |        | XBINT0  | 03       | XBCSIA      | 01               | 3     | TT3                 | F2                   |                    | 34A    |                |                |
| 17854         |        | XA529                           | 73  |       |        |           |     |       |             |      |       |       |        | XBCSCA  | 02       | XBCSCA      | 00               | 1     | TT3                 | F1                   |                    | 36B    |                | CH.SEL.COMMAND |
| 17873         |        | XA529                           | 74  |       |        |           |     |       |             |      |       |       |        | XBCSIA  | 03       | XBCSIA      | 00               | 1     | TT3                 | F2                   |                    | 35B    |                | CH.SEL.INTER   |
| 17907         |        | XA529                           | 75  |       | XA529  | 53        |     |       |             | 16B  | 9     |       |        | XBICSO  | 04       | XBCSCA      | 01               | 1     | TT3                 | F1                   |                    | 37B    |                |                |
| 06217         |        | XA529                           | 76  |       | XA530  | 78        |     |       |             | 16B  | 9     |       |        | SPI043  | 32       |             | 01               | 2     | TT3                 | F3                   |                    | 37A    |                |                |
| 17898         |        | XA529                           | 77  |       | XA529  | 71        |     |       |             | 16B  | 9     |       |        | XBICRO  | 01       | XBCSCA      | 01               | 2     | TT3                 | F1                   |                    | 38B    |                |                |
| 06007         |        | XA529                           | 78  |       | XA527  | 73        |     |       |             | 16B  | 9     |       |        | SPI037  | 25       |             | 01               | 3     | TT3                 | F3                   |                    | 38A    |                |                |
| 17850         |        | XA529                           | 79  |       | XA529  | 59        |     |       |             | 16B  | 9     |       |        | XBCMDO  | 01       | XBCSCA      | 01               | 3     | TT3                 | F1                   |                    | 39B    |                |                |
| 08093         |        | XA529                           | 80  |       |        |           |     |       |             |      |       |       |        | SPO     | 01       |             | 00               | 1     | TT3                 | F3                   |                    | 39A    |                |                |
| 18003         |        | XA530                           | 01  |       | XA531  | 05        |     |       |             | 16B  | 9     |       |        | XBR10S  | 03       | XBR10S      | 00               | 1     | TQ2                 | A2                   |                    | 02B    |                | DEV REQ 1      |
| 03068         |        | XA530                           | 02  |       |        |           |     |       |             |      |       |       |        | GND     | 01       |             |                  |       | TQ2                 |                      |                    | 01A    |                |                |
| 18155         |        | XA530                           | 03  |       |        |           |     |       |             |      |       |       |        | XB00COX | 03       | XBR0RA      | 01               | 1     | TQ2                 | A3                   |                    | 02A    |                |                |
| 17983         |        | XA530                           | 04  |       | XA531  | 08        |     |       |             | 16B  | 9     |       |        | XBR1CA  | 01       | XBR10S      | 01               | 1     | TQ2                 | A2                   |                    | 04A    |                |                |
| 17999         |        | XA530                           | 05  |       | XA529  | 07        |     |       |             | 16B  | 9     |       |        | XBR1OR  | 01       | XBR10S      | 01               | 2     | TQ2                 | A2                   |                    | 03B    |                |                |
| 17981         |        | XA530                           | 06  |       | XA531  | 04        |     |       |             | 16B  | 9     |       |        | XBR00S  | 03       | XBR00S      | 00               | 1     | TQ2                 | A1                   |                    | 05A    |                | DEV REQ 0      |
| 17862         |        | XA530                           | 07  |       | XA530  | 13        |     |       |             | 16B  | 9     |       |        | XBCSE0  | 01       | XBR0RA      | 01               | 2     | TQ2                 | A3                   |                    | 03A    |                |                |
| 17961         |        | XA530                           | 08  |       | XA531  | 13        |     |       |             | 16B  | 9     |       |        | XBR0CA  | 01       | XBR00S      | 01               | 1     | TQ2                 | A1                   |                    | 06A    |                |                |
| 17973         |        | XA530                           | 09  |       | XA529  | 08        |     |       |             | 16B  | 9     |       |        | XBR0RA  | 01       | XBR0RA      | 00               | 1     | TQ2                 | A3                   |                    | 04B    |                |                |
| 17977         |        | XA530                           | 10  |       | XA529  | 04        |     |       |             | 16B  | 9     |       |        | XBR00P  | 01       | XBR00S      | 01               | 2     | TQ2                 | A1                   |                    | 07A    |                |                |
| 18168         |        | XA530                           | 11  |       |        |           |     |       |             |      |       |       |        | XB01COX | 03       | XBR1RA      | 01               | 1     | TQ2                 | A4                   |                    | 05B    |                |                |
| 00705         |        | XA530                           | 12  |       |        |           |     |       |             |      |       |       |        | +5V     | 01       |             |                  |       | TQ2                 |                      |                    |        |                |                |
| 17863         |        | XA530                           | 13  |       | XA530  | 19        |     |       |             | 16B  | 9     |       |        | XBCSE0  | 02       | XBR1RA      | 01               | 2     | TQ2                 | A4                   |                    | 06B    |                |                |
| 18046         |        | XA530                           | 14  |       | XA529  | 14        |     |       |             | 16B  | 9     |       |        | XBR30S  | 02       | XBR30S      | 00               | 1     | TQ2                 | B2                   |                    | 09A    |                |                |
| 17995         |        | XA530                           | 15  |       | XA529  | 03        |     |       |             | 16B  | 9     |       |        | XBR1RA  | 01       | XBR1RA      | 00               | 1     | TQ2                 | A4                   |                    | 07B    |                |                |
| 03069         |        | XA530                           | 16  |       |        |           |     |       |             |      |       |       |        | GND     | 01       |             |                  |       | TQ2                 |                      |                    | 01B    |                |                |
| 18181         |        | XA530                           | 17  |       |        |           |     |       |             |      |       |       |        | XB02COX | 03       | XBR2RA      | 01               | 1     | TQ2                 | B3                   |                    | 08B    |                |                |
| 18027         |        | XA530                           | 18  |       | XA531  | 25        |     |       |             | 16B  | 9     |       |        | XBR3CA  | 01       | XBR30S      | 01               | 1     | TQ2                 | B2                   |                    | 10A    |                |                |
| 17864         |        | XA530                           | 19  |       | XA530  | 25        |     |       |             | 16B  | 9     |       |        | XBCSE0  | 03       | XBR2PA      | 01               | 2     | TQ2                 | B3                   |                    | 09B    |                |                |
| 18043         |        | XA530                           | 20  |       | XA529  | 19        |     |       |             | 16B  | 9     |       |        | XBR30R  | 01       | XBR30S      | 01               | 2     | TQ2                 | B2                   |                    | 11A    |                |                |
| 18017         |        | XA530                           | 21  |       | XA529  | 24        |     |       |             | 16B  | 9     |       |        | XBR2RA  | 01       | XBR2RA      | 00               | 1     | TQ2                 | B3                   |                    | 10B    |                |                |
| 18025         |        | XA530                           | 22  |       | XA531  | 20        |     |       |             | 16B  | 9     |       |        | XBR20S  | 03       | XBR20S      | 00               | 1     | TQ2                 | B1                   |                    | 12A    |                | DEV REQ 2      |
| 18194         |        | XA530                           | 23  |       |        |           |     |       |             |      |       |       |        | XB03COX | 05       | XBR3RA      | 01               | 1     | TQ2                 | B4                   |                    | 11B    |                |                |
| 18005         |        | XA530                           | 24  |       | XA531  | 24        |     |       |             | 16B  | 9     |       |        | XBR2CA  | 01       | XBR20S      | 01               | 1     | TQ2                 | B1                   |                    | 13A    |                |                |
| 17865         |        | XA530                           | 25  |       | XA530  | 31        |     |       |             | 16B  | 9     |       |        | XBCSE0  | 04       | XBR3RA      | 01               | 2     | TQ2                 | B4                   |                    | 12B    |                |                |
| 18021         |        | XA530                           | 26  |       | XA529  | 20        |     |       |             | 16B  | 9     |       |        | XBR20R  | 01       | XBR20S      | 01               | 2     | TQ2                 | B1                   |                    | 14A    |                |                |
| 18039         |        | XA530                           | 27  |       | XA529  | 17        |     |       |             | 16B  | 9     |       |        | XBR3RA  | 01       | XBR3RA      | 00               | 1     | TQ2                 | B4                   |                    | 13B    |                |                |
| 00706         |        | XA530                           | 28  |       |        |           |     |       |             |      |       |       |        | +5V     | 01       |             |                  |       | TQ2                 |                      |                    |        |                |                |
| 18207         |        | XA530                           | 29  |       |        |           |     |       |             |      |       |       |        | XB04COX | 03       | XBR4RA      | 01               | 1     | TQ2                 | C3                   |                    | 14B    |                |                |
| 18090         |        | XA530                           | 30  |       | XA529  | 29        |     |       |             | 16B  | 9     |       |        | XBR50S  | 02       | XBR50S      | 00               | 1     | TQ2                 | C2                   |                    | 15A    |                | DEV REQ 5      |
| 17866         |        | XA530                           | 31  |       | XA530  | 37        |     |       |             | 16B  | 9     |       |        | XBCSE0  | 05       | XBR4RA      | 01               | 2     | TQ2                 | C3                   |                    | 15B    |                |                |
| 03070         |        | XA530                           | 32  |       |        |           |     |       |             |      |       |       |        | GND     | 01       |             |                  |       | TQ2                 |                      |                    | 20B    |                |                |
| 18061         |        | XA530                           | 33  |       | XA529  | 40        |     |       |             | 16B  | 9     |       |        | XBR4RA  | 01       | XBR4RA      | 00               | 1     | TQ2                 | C3                   |                    | 16B    |                |                |
| 18071         |        | XA530                           | 34  |       | XA531  | 37        |     |       |             | 16B  | 9     |       |        | XBR5CA  | 01       | XBR50S      | 01               | 1     | TQ2                 | C2                   |                    | 16A    |                |                |
| 18220         |        | XA530                           | 35  |       |        |           |     |       |             |      |       |       |        | XB05COX | 03       | XBR5RA      | 01               | 1     | TQ2                 | C4                   |                    | 17B    |                |                |
| 18087         |        | XA530                           | 36  |       | XA529  | 31        |     |       |             | 16B  | 9     |       |        | XBR50R  | 01       | XBR50S      | 01               | 2     | TQ2                 | C2                   |                    | 17A    |                |                |
| 17867         |        | XA530                           | 37  |       | XA530  | 43        |     |       |             | 16B  | 9     |       |        | XBCSE0  | 06       | XBR5RA      | 01               | 2     | TQ2                 | C4                   |                    | 18B    |                |                |
| CONNECTOR     | XA530  | CONTINUED ON THE NEXT PAGE **** |     |       |        |           |     |       |             |      |       |       |        |         |          |             |                  |       |                     |                      |                    |        |                |                |

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DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA530  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 402

| RECORD NUMBER | FROM   |           |                                 | SH | TO     |           |     | SH | WIRE |       |       |  | MULTI GROUP | SIGNAL | SQ NO  | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|----|--------|-----------|-----|----|------|-------|-------|--|-------------|--------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             |    | PREFIX | CONNECTOR | PIN |    | CODE | COLOR | IDENT |  |             |        |        |          |      |        |                  |       |                     |                    |                    |        |
| 18069         |        | XA530     | 38                              |    | XA531  | 36        |     |    | 16B  | 9     |       |  | XBR40S      | 03     | XBR40S | 00       | 1    | TQ2    | C1               |       | 18A                 | DEV REQ 4          |                    |        |
| 18083         |        | XA530     | 39                              |    | XA529  | 30        |     |    | 16B  | 9     |       |  | XBR5RA      | 01     | XBR5RA | 00       | 1    | TQ2    | C4               |       | 19B                 |                    |                    |        |
| 18049         |        | XA530     | 40                              |    | XA531  | 40        |     |    | 16B  | 9     |       |  | XBR4CA      | 01     | XBR40S | 01       | 1    | TQ2    | C1               |       | 19A                 |                    |                    |        |
| 18231         |        | XA530     | 41                              |    | XA528  | 38        |     |    | 16B  | 9     |       |  | XB06COX     | 01     | XBR6RA | 01       | 1    | TQ2    | D3               |       | 22B                 |                    |                    |        |
| 18065         |        | XA530     | 42                              |    | XA529  | 36        |     |    | 16B  | 9     |       |  | XBR40R      | 01     | XBR40S | 01       | 2    | TQ2    | C1               |       | 20A                 |                    |                    |        |
| 17868         |        | XA530     | 43                              |    | XA530  | 49        |     |    | 16B  | 9     |       |  | XBCSE0      | 07     | XBR6RA | 01       | 2    | TQ2    | D3               |       | 23B                 |                    |                    |        |
| 03071         |        | XA530     | 44                              |    |        |           |     |    |      |       |       |  | GND         | 01     |        |          |      | TQ2    |                  |       | 21B                 |                    |                    |        |
| 18105         |        | XA530     | 45                              |    | XA529  | 54        |     |    | 16B  | 9     |       |  | XBR6RA      | 01     | XBR6RA | 00       | 1    | TQ2    | D3               |       | 24B                 |                    |                    |        |
| 18130         |        | XA530     | 46                              |    | XA529  | 41        |     |    | 16B  | 9     |       |  | XBR70S      | 01     | XBR70S | 00       | 1    | TQ2    | D2               |       | 21A                 | DEV REQ 7          |                    |        |
| 18246         |        | XA530     | 47                              |    |        |           |     |    |      |       |       |  | XB07COX     | 03     | XBR7RA | 01       | 1    | TQ2    | D4               |       | 25B                 |                    |                    |        |
| 18114         |        | XA530     | 48                              |    |        |           |     |    |      |       |       |  | XBR7CA      | 02     | XBR70S | 01       | 1    | TQ2    | D2               |       | 22A                 |                    |                    |        |
| 17869         |        | XA530     | 49                              |    | XA531  | 48        |     |    | 16B  | 9     |       |  | XBCSE0      | 08     | XBR7RA | 01       | 2    | TQ2    | D4               |       | 26B                 |                    |                    |        |
| 18128         |        | XA530     | 50                              |    | XA530  | 70        |     |    | 16B  | 9     |       |  | XBR70R      | 02     | XBR70S | 01       | 2    | TQ2    | D2               |       | 23A                 |                    |                    |        |
| 18125         |        | XA530     | 51                              |    | XA529  | 46        |     |    | 16B  | 9     |       |  | XBR7RA      | 01     | XBR7RA | 00       | 1    | TQ2    | D4               |       | 27B                 |                    |                    |        |
| 18110         |        | XA530     | 52                              |    | XA529  | 52        |     |    | 16B  | 9     |       |  | XBR60S      | 01     | XBR60S | 00       | 1    | TQ2    | D1               |       | 24A                 | DEV REQ 6          |                    |        |
| 17924         |        | XA530     | 53                              |    | XA529  | 72        |     |    | 16B  | 9     |       |  | XBINT0      | 02     | XBINTA | 01       | 1    | TQ2    | E3               |       | 28B                 |                    |                    |        |
| 18093         |        | XA530     | 54                              |    | XA531  | 54        |     |    | 16B  | 9     |       |  | XBR6CA      | 01     | XBR60S | 01       | 1    | TQ2    | D1               |       | 25A                 |                    |                    |        |
| 06210         |        | XA530     | 55                              |    | XA530  | 65        |     |    | 16B  | 9     |       |  | SPI043      | 25     | XBINTA | 01       | 2    | TQ2    | E3               |       | 29B                 |                    |                    |        |
| 18108         |        | XA530     | 56                              |    | XA530  | 68        |     |    | 16B  | 9     |       |  | XBR60R      | 02     | XBR60S | 01       | 2    | TQ2    | D1               |       | 26A                 |                    |                    |        |
| 17921         |        | XA530     | 57                              |    | XA529  | 49        |     |    | 16B  | 9     |       |  | XBINTA      | 01     | XBINTA | 00       | 1    | TQ2    | E3               |       | 30B                 |                    |                    |        |
| 03072         |        | XA530     | 58                              |    |        |           |     |    |      |       |       |  | GND         | 01     |        |          |      | TQ2    |                  |       | 27A                 |                    |                    |        |
| 17860         |        | XA530     | 59                              |    | XA529  | 55        |     |    | 16B  | 9     |       |  | XBCSEA      | 02     | XBENAO | 01       | 1    | TQ2    | E4               |       | 31B                 |                    |                    |        |
| 18134         |        | XA530     | 60                              |    |        |           |     |    |      |       |       |  | XBSTBA      | 02     | XBSTBA | 00       | 1    | TQ2    | E2               |       | 28A                 |                    |                    |        |
| 17942         |        | XA530     | 61                              |    | XA531  | 41        |     |    | 16B  | 9     |       |  | XBMRDA      | 03     | XBENAO | 01       | 2    | TQ2    | E4               |       | 32B                 |                    |                    |        |
| 06212         |        | XA530     | 62                              |    | XA529  | 61        |     |    | 16B  | 9     |       |  | SPI043      | 27     | XBSTBA | 01       | 1    | TQ2    | E2               |       | 29A                 |                    |                    |        |
| 17879         |        | XA530     | 63                              |    |        |           |     |    |      |       |       |  | XBENAO      | 02     | XBENAO | 00       | 1    | TQ2    | E4               |       | 33B                 | DEV ENABLE         |                    |        |
| 18137         |        | XA530     | 64                              |    | XA531  | 56        |     |    | 16B  | 9     |       |  | XBSTB0      | 03     | XBSTBA | 01       | 2    | TQ2    | E2               |       | 30A                 |                    |                    |        |
| 06211         |        | XA530     | 65                              |    | XA530  | 62        |     |    | 16B  | 9     |       |  | SPI043      | 26     |        | 01       | 1    | TQ2    | F3               |       | 34B                 |                    |                    |        |
| 17960         |        | XA530     | 66                              |    |        |           |     |    |      |       |       |  | XBRE30      | 02     | XBRE30 | 00       | 1    | TQ2    | E1               |       | 31A                 | DEV REQ 6+7        |                    |        |
| 03073         |        | XA530     | 67                              |    |        |           |     |    |      |       |       |  | GND         | 01     |        |          |      | TQ2    |                  |       | 40A                 |                    |                    |        |
| 18109         |        | XA530     | 68                              |    |        |           |     |    |      |       |       |  | XBR60R      | 03     | XBRE30 | 01       | 1    | TQ2    | E1               |       | 32A                 |                    |                    |        |
| 08094         |        | XA530     | 69                              |    |        |           |     |    |      |       |       |  | SPO         | 01     |        | 00       | 1    | TQ2    | F3               |       | 35A                 |                    |                    |        |
| 18129         |        | XA530     | 70                              |    |        |           |     |    |      |       |       |  | XBR70R      | 03     | XBRE30 | 01       | 2    | TQ2    | E1               |       | 33A                 |                    |                    |        |
| 17944         |        | XA530     | 71                              |    | XA531  | 46        |     |    | 16B  | 9     |       |  | XBMRD0      | 01     | XBMRCA | 01       | 1    | TQ2    | F2               |       | 36A                 |                    |                    |        |
| 17939         |        | XA530     | 72                              |    |        |           |     |    |      |       |       |  | XBMRCA      | 09     | XBMRCA | 00       | 1    | TQ2    | F2               |       | 34A                 | ENB.CMD.STB.       |                    |        |
| 18135         |        | XA530     | 73                              |    | XA529  | 70        |     |    | 16B  | 9     |       |  | XBSTB0      | 01     | XBMRCA | 01       | 2    | TQ2    | F2               |       | 36B                 |                    |                    |        |
| 06132         |        | XA530     | 74                              |    | XA530  | 76        |     |    | 16B  | 9     |       |  | SPI041      | 19     |        | 01       | 2    | TQ2    | F3               |       | 35B                 |                    |                    |        |
| 17840         |        | XA530     | 75                              |    | XA528  | 74        |     |    | 16B  | 9     |       |  | XBCMA0      | 01     | XBCMA0 | 00       | 1    | TQ2    | F1               |       | 37B                 | DEV COMMAND        |                    |        |
| 06133         |        | XA530     | 76                              |    | XA534  | 71        |     |    | 16B  | 9     |       |  | SPI041      | 20     |        | 01       | 1    | TQ2    | F4               |       | 37A                 |                    |                    |        |
| 17940         |        | XA530     | 77                              |    | XA529  | 63        |     |    | 16B  | 9     |       |  | XBMRDA      | 01     | XBCMA0 | 01       | 1    | TQ2    | F1               |       | 38B                 |                    |                    |        |
| 06218         |        | XA530     | 78                              |    | XA531  | 79        |     |    | 16B  | 9     |       |  | SPI043      | 33     |        | 01       | 2    | TQ2    | F4               |       | 38A                 |                    |                    |        |
| 17853         |        | XA530     | 79                              |    | XA529  | 73        |     |    | 16B  | 9     |       |  | XBCSCA      | 01     | XBCMA0 | 01       | 2    | TQ2    | F1               |       | 39B                 |                    |                    |        |
| 08095         |        | XA530     | 80                              |    |        |           |     |    |      |       |       |  | SPO         | 01     |        | 00       | 1    | TQ2    | F4               |       | 39A                 |                    |                    |        |
| 17998         |        | XA531     | 01                              |    |        |           |     |    |      |       |       |  | XBR10A      | 02     | XBR10A | 00       | 1    | THI    | A4               |       | 02A                 |                    |                    |        |
| 03074         |        | XA531     | 02                              |    |        |           |     |    |      |       |       |  | GND         | 01     |        |          |      | THI    |                  |       | 01A                 |                    |                    |        |
| 17976         |        | XA531     | 03                              |    |        |           |     |    |      |       |       |  | XBR00A      | 02     | XBR00A | 00       | 1    | THI    | A3               |       | 03A                 |                    |                    |        |
| 17982         |        | XA531     | 04                              |    |        |           |     |    |      |       |       |  | XBR00S      | 04     | XBR00A | 01       | 1    | THI    | A3               |       | 02A                 |                    |                    |        |
| 18004         |        | XA531     | 05                              |    |        |           |     |    |      |       |       |  | XBR10S      | 04     | XBR10A | 01       | 1    | THI    | A4               |       | 03B                 |                    |                    |        |
| CONNECTOR     |        | XA531     | CONTINUED ON THE NEXT PAGE **** |    |        |           |     |    |      |       |       |  |             |        |        |          |      |        |                  |       |                     |                    |                    |        |

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DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA531  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 403

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE |             |      |       | SPEC. INST. IN DEC. | SIGNAL  | SEQ NO. | EQUATION | TERM. FACTOR | CMT. OR CHIP TYPE | QUAN. | LOAD OF POWER PLANE | TEST POINTS AND JF | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|--------|-----------|-----|------|-------------|------|-------|---------------------|---------|---------|----------|--------------|-------------------|-------|---------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR |                     |         |         |          |              |                   |       |                     |                    |                    |         |
| 17987   |        | XA531     | 06  |        |           |     |      |             |      |       |                     | XBR1COX | 02      | XBR1CA   | 01           | 1                 | THI   | A2                  | 05A                |                    |         |
| 08096   |        | XA531     | 07  |        |           |     |      |             |      |       |                     | SPO     | 01      |          | 00           | 1                 | THI   | A5                  | 04B                |                    |         |
| 17984   |        | XA531     | 08  |        |           |     |      |             |      |       |                     | XBR1CA  | 02      | XBR1CA   | 00           | 1                 | THI   | A2                  | 04A                |                    |         |
| 06188   |        | XA531     | 09  |        | XA538     | 09  |      |             | 16B  | 9     |                     | SPI043  | 03      |          | 01           | 1                 | THI   | A5                  | 05B                |                    |         |
| 08097   |        | XA531     | 10  |        |           |     |      |             |      |       |                     | SPO     | 01      |          | 00           | 1                 | THI   | A6                  | 06B                |                    |         |
| 17965   |        | XA531     | 11  |        |           |     |      |             |      |       |                     | XBR0COX | 02      | XBR0CA   | 01           | 1                 | THI   | A1                  | 07A                |                    |         |
| 00707   |        | XA531     | 12  |        |           |     |      |             |      |       |                     | +5V     | 01      |          |              |                   | THI   |                     |                    |                    |         |
| 17962   |        | XA531     | 13  |        |           |     |      |             |      |       |                     | XBR0CA  | 02      | XBR0CA   | 00           | 1                 | THI   | A1                  | 06A                |                    |         |
| 18042   |        | XA531     | 14  |        |           |     |      |             |      |       |                     | XBR30A  | 02      | XBR30A   | 00           | 1                 | THI   | B4                  | 08B                |                    |         |
| 06187   |        | XA531     | 15  |        | XA531     | 09  |      |             | 16B  | 9     |                     | SPI043  | 02      |          | 01           | 1                 | THI   | A6                  | 07B                |                    |         |
| 03075   |        | XA531     | 16  |        |           |     |      |             |      |       |                     | GND     | 01      |          |              |                   | THI   |                     | 20B                |                    |         |
| 18045   |        | XA531     | 17  |        | XA530     | 14  |      |             | 16B  | 9     |                     | XBR30S  | 01      | XBR30A   | 01           | 1                 | THI   | B4                  | 09B                |                    |         |
| 18020   |        | XA531     | 18  |        |           |     |      |             |      |       |                     | XBR20A  | 02      | XBR20A   | 00           | 1                 | THI   | B3                  | 09A                |                    |         |
| 17897   |        | XA531     | 19  |        |           |     |      |             |      |       |                     | XBGND   | 07      | XBGND    | 00           | 1                 | THI   | B5                  | 10B                |                    |         |
| 18026   |        | XA531     | 20  |        |           |     |      |             |      |       |                     | XBR20S  | 04      | XBR20A   | 01           | 1                 | THI   | B3                  | 10A                |                    |         |
| 06291   |        | XA531     | 21  |        | XA538     | 21  |      |             | 16B  | 9     |                     | SPI301  | 10      | XBGND    | 01           | 1                 | THI   | B5                  | 11B                |                    | C13     |
| 18009   |        | XA531     | 22  |        |           |     |      |             |      |       |                     | XBR2COX | 02      | XBR2CA   | 01           | 1                 | THI   | B1                  | 14A                |                    |         |
| 18031   |        | XA531     | 23  |        |           |     |      |             |      |       |                     | XBR3COX | 02      | XBR3CA   | 01           | 1                 | THI   | B2                  | 12A                |                    |         |
| 18006   |        | XA531     | 24  |        |           |     |      |             |      |       |                     | XBR2CA  | 02      | XBR2CA   | 00           | 1                 | THI   | B1                  | 13A                |                    |         |
| 18028   |        | XA531     | 25  |        |           |     |      |             |      |       |                     | XBR3CA  | 02      | XBR3CA   | 00           | 1                 | THI   | B2                  | 11A                |                    |         |
| 17949   |        | XA531     | 26  |        | XA529     | 33  |      |             | 16B  | 9     |                     | XBRE1A  | 01      | XBRE1A   | 00           | 1                 | THI   | B6                  | 12B                |                    |         |
| 17952   |        | XA531     | 27  |        |           |     |      |             |      |       |                     | XBRE10  | 02      | XBRE1A   | 01           | 1                 | THI   | B6                  | 13B                |                    |         |
| 00708   |        | XA531     | 28  |        |           |     |      |             |      |       |                     | +5V     | 01      |          |              |                   | THI   |                     |                    |                    |         |
| 18089   |        | XA531     | 29  |        | XA530     | 30  |      |             | 16B  | 9     |                     | XBR50S  | 01      | XBR50A   | 01           | 1                 | THI   | C4                  | 15B                |                    |         |
| 18086   |        | XA531     | 30  |        |           |     |      |             |      |       |                     | XBR50A  | 02      | XBR50A   | 00           | 1                 | THI   | C4                  | 14B                |                    |         |
| 17954   |        | XA531     | 31  |        |           |     |      |             |      |       |                     | XBRE2A  | 02      | XBRE2A   | 00           | 1                 | THI   | C5                  | 16B                |                    |         |
| 03076   |        | XA531     | 32  |        |           |     |      |             |      |       |                     | GND     | 01      |          |              |                   | THI   |                     | 21B                |                    |         |
| 17956   |        | XA531     | 33  |        |           |     |      |             |      |       |                     | XBRE20  | 02      | XBRE2A   | 01           | 1                 | THI   | C5                  | 17B                |                    |         |
| 18064   |        | XA531     | 34  |        |           |     |      |             |      |       |                     | XBR40A  | 02      | XBR40A   | 00           | 1                 | THI   | C3                  | 15A                |                    |         |
| 18075   |        | XA531     | 35  |        |           |     |      |             |      |       |                     | XBR5COX | 02      | XBR5CA   | 01           | 1                 | THI   | C2                  | 18A                |                    |         |
| 18070   |        | XA531     | 36  |        |           |     |      |             |      |       |                     | XBR40S  | 04      | XBR40A   | 01           | 1                 | THI   | C3                  | 16A                |                    |         |
| 18072   |        | XA531     | 37  |        |           |     |      |             |      |       |                     | XBR5CA  | 02      | XBR5CA   | 00           | 1                 | THI   | C2                  | 17A                |                    |         |
| 18053   |        | XA531     | 38  |        |           |     |      |             |      |       |                     | XBR4COX | 02      | XBR4CA   | 01           | 1                 | THI   | C1                  | 20A                |                    |         |
| 17959   |        | XA531     | 39  |        | XA530     | 66  |      |             | 16B  | 9     |                     | XBRE30  | 01      | XBRE3A   | 01           | 1                 | THI   | C6                  | 19B                |                    |         |
| 18050   |        | XA531     | 40  |        |           |     |      |             |      |       |                     | XBR4CA  | 02      | XBR4CA   | 00           | 1                 | THI   | C1                  | 19A                |                    |         |
| 17943   |        | XA531     | 41  |        |           |     |      |             |      |       |                     | XBMRDA  | 04      | XBMRD0   | 01           | 1                 | THI   | D4                  | 23B                |                    |         |
| 17958   |        | XA531     | 42  |        |           |     |      |             |      |       |                     | XBRE3A  | 02      | XBRE3A   | 00           | 1                 | THI   | C6                  | 18B                |                    |         |
| 08098   |        | XA531     | 43  |        |           |     |      |             |      |       |                     | SPO     | 01      |          | 00           | 1                 | THI   | D5                  | 24B                |                    |         |
| 03077   |        | XA531     | 44  |        |           |     |      |             |      |       |                     | GND     | 01      |          |              |                   | THI   |                     | 27A                |                    |         |
| 06209   |        | XA531     | 45  |        | XA530     | 55  |      |             | 16B  | 9     |                     | SPI043  | 24      |          | 01           | 1                 | THI   | D5                  | 25B                |                    |         |
| 17945   |        | XA531     | 46  |        |           |     |      |             |      |       |                     | XBMRD0  | 02      | XBMRD0   | 00           | 1                 | THI   | D4                  | 22B                |                    |         |
| 18117   |        | XA531     | 47  |        |           |     |      |             |      |       |                     | XBR7COX | 02      | XBR7CA   | 01           | 1                 | THI   | D2                  | 24A                |                    |         |
| 17870   |        | XA531     | 48  |        |           |     |      |             |      |       |                     | XBCSE0  | 09      | XBCSE0   | 00           | 1                 | THI   | D3                  | 21A                |                    |         |
| 18113   |        | XA531     | 49  |        | XA530     | 48  |      |             | 16B  | 9     |                     | XBR7CA  | 01      | XBR7CA   | 00           | 1                 | THI   | D2                  | 23A                |                    |         |
| 17859   |        | XA531     | 50  |        | XA530     | 59  |      |             | 16B  | 9     |                     | XBCSEA  | 01      | XBCSE0   | 01           | 1                 | THI   | D3                  | 22A                |                    |         |
| 06208   |        | XA531     | 51  |        | XA531     | 45  |      |             | 16B  | 9     |                     | SPI043  | 23      |          | 01           | 1                 | THI   | D6                  | 27B                |                    |         |
| 18097   |        | XA531     | 52  |        |           |     |      |             |      |       |                     | XBR6COX | 02      | XBR6CA   | 01           | 1                 | THI   | D1                  | 26A                |                    |         |
| 08099   |        | XA531     | 53  |        |           |     |      |             |      |       |                     | SPO     | 01      |          | 00           | 1                 | THI   | D6                  | 26B                |                    |         |
| 18094   |        | XA531     | 54  |        |           |     |      |             |      |       |                     | XBR6CA  | 02      | XBR6CA   | 00           | 1                 | THI   | D1                  | 25A                |                    |         |
| 15672   |        | XA531     | 55  |        | XA525     | 55  |      |             | 16B  | 9     |                     | TSTBCA  | 04      | XBSTB0   | 01           | 1                 | THI   | E4                  | 29B                |                    |         |
| CONNECTOR (XA531) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |      |             |      |       |                     |         |         |          |              |                   |       |                     |                    |                    |         |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA531  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 404

| RECORD NUMBER | FROM   |                                 |     |    | TO     |           |     |    | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|---------------------------------|-----|----|--------|-----------|-----|----|-------------|------|-------|-------|---------|--------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | IN | PREFIX | CONNECTOR | PIN | IN | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |             |                  |       |                     |                    |                    |        |
| 18138         |        | XA531                           | 56  |    |        |           |     |    |             |      |       |       | XBSTB0  | 04     | XBSTB0   | 00          | 1                | THI   | E4                  | 28B                | IOC STROBE         |        |
| 17882         |        | XA531                           | 57  |    |        |           |     |    |             |      |       |       | XBENB0  | 03     | XBENB0   | 00          | 1                | THI   | E5                  | 30B                | IOC ENABLE         |        |
| 03078         |        | XA531                           | 58  |    |        |           |     |    |             |      |       |       | GND     | 01     |          |             |                  | THI   |                     | 40A                |                    |        |
| 12518         |        | XA531                           | 59  |    | XA525  | 59        |     |    | 16B         | 9    |       |       | TENACA  | 04     | XBENB0   | 01          | 1                | THI   | E5                  | 31B                |                    |        |
| 17923         |        | XA531                           | 60  |    | XA530  | 53        |     |    | 16B         | 9    |       |       | XBINT0  | 01     | XBINT0   | 00          | 1                | THI   | E3                  | 28A                | IOC INTERROGATE    |        |
| 09931         |        | XA531                           | 61  |    | XA525  | 61        |     |    | 16B         | 9    |       |       | TCSXMA  | 04     | XBICR0   | 01          | 1                | THI   | E2                  | 31A                |                    |        |
| 13396         |        | XA531                           | 62  |    | XA525  | 62        |     |    | 16B         | 9    |       |       | TINTCA  | 04     | XBINT0   | 01          | 1                | THI   | E3                  | 29A                |                    |        |
| 17902         |        | XA531                           | 63  |    | XA529  | 47        |     |    | 16B         | 9    |       |       | XBICR0  | 05     | XBICR0   | 00          | 1                | THI   | E2                  | 30A                | IDE ADRS           |        |
| 09562         |        | XA531                           | 64  |    |        |           |     |    |             |      |       |       | TCS2AA  | 03     | XBICR0   | 01          | 1                | THI   | E1                  | 33A                |                    |        |
| 09750         |        | XA531                           | 65  |    | XA538  | 65        |     |    | 16B         | 9    |       |       | TCM0CA  | 04     | XBCMD0   | 01          | 1                | THI   | E6                  | 33B                |                    |        |
| 17904         |        | XA531                           | 66  |    | XA529  | 66        |     |    | 16B         | 9    |       |       | XBICR0  | 01     | XBICR0   | 00          | 1                | THI   | E1                  | 32A                | IOC CH.SEL         |        |
| 03079         |        | XA531                           | 67  |    |        |           |     |    |             |      |       |       | GND     | 01     |          |             |                  | THI   |                     |                    |                    |        |
| 17852         |        | XA531                           | 68  |    |        |           |     |    |             |      |       |       | XBCMD0  | 03     | XBCMD0   | 00          | 1                | THI   | E6                  | 32B                | IOC COMMAND        |        |
| 06224         |        | XA531                           | 69  |    |        |           |     |    |             |      |       |       | SP1043  | 39     |          |             |                  | THI   | F3                  | 35B                |                    |        |
| 08100         |        | XA531                           | 70  |    |        |           |     |    |             |      |       |       | SPO     | 01     |          |             |                  | THI   | F3                  | 34B                |                    |        |
| 08101         |        | XA531                           | 71  |    |        |           |     |    |             |      |       |       | SPO     | 01     |          |             |                  | THI   | F2                  | 36B                |                    |        |
| 08102         |        | XA531                           | 72  |    |        |           |     |    |             |      |       |       | SPO     | 01     |          |             |                  | THI   | F4                  | 34A                |                    |        |
| 06221         |        | XA531                           | 73  |    | XA531  | 74        |     |    | 16B         | 9    |       |       | SP1043  | 36     |          |             |                  | THI   | F2                  | 37B                |                    |        |
| 06222         |        | XA531                           | 74  |    | XA531  | 76        |     |    | 16B         | 9    |       |       | SP1043  | 37     |          |             |                  | THI   | F4                  | 35A                |                    |        |
| 06220         |        | XA531                           | 75  |    | XA531  | 73        |     |    | 16B         | 9    |       |       | SP1043  | 35     |          |             |                  | THI   | F6                  | 39A                |                    |        |
| 06223         |        | XA531                           | 76  |    | XA531  | 69        |     |    | 16B         | 9    |       |       | SP1043  | 38     |          |             |                  | THI   | F5                  | 37A                |                    |        |
| 08103         |        | XA531                           | 77  |    |        |           |     |    |             |      |       |       | SPO     | 01     |          |             |                  | THI   | F6                  | 38A                |                    |        |
| 08104         |        | XA531                           | 78  |    |        |           |     |    |             |      |       |       | SPO     | 01     |          |             |                  | THI   | F5                  | 36A                |                    |        |
| 06219         |        | XA531                           | 79  |    | XA531  | 75        |     |    | 16B         | 9    |       |       | SP1043  | 34     |          |             |                  | THI   | F1                  | 39B                |                    |        |
| 08105         |        | XA531                           | 80  |    |        |           |     |    |             |      |       |       | SPO     | 01     |          |             |                  | THI   | F1                  | 38B                |                    |        |
| 01617         |        | XA532                           | 01  |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |             |                  | RR4   |                     |                    |                    |        |
| 03080         |        | XA532                           | 02  |    |        |           |     |    |             |      |       |       | GND     | 01     |          |             |                  | RR4   |                     |                    |                    |        |
| 21379         |        | XA532                           | 02  |    | XA532  | 06        |     |    | 16B         | 9    |       |       | G53202  | 01     |          |             |                  | RR4   |                     |                    |                    | B05    |
| 00158         |        | XA532                           | 03  |    | XA532  | 04        |     |    | 16B         | 9    |       |       | +5VDCF  | 760    |          |             |                  | RR4   | AP                  |                    |                    | B05    |
| 00159         |        | XA532                           | 04  |    | XA532  | 13        |     |    | 16B         | 9    |       |       | +5VDCF  | 765    |          |             |                  | RR4   | AP                  |                    |                    | B05    |
| 18184         |        | XA532                           | 05  |    | XA526  | 14        |     |    | 16B         | 9    |       |       | XB02DB4 | 01     |          |             |                  | RR4   | A3                  |                    |                    |        |
| 03419         |        | XA532                           | 06  |    | XA532  | 18        |     |    | 16B         | 9    |       |       | G53202  | 02     |          |             |                  | RR4   | AC                  |                    |                    | B05    |
| 18197         |        | XA532                           | 07  |    | XA526  | 01        |     |    | 16B         | 9    |       |       | XB03DB4 | 01     |          |             |                  | RR4   | A4                  |                    |                    |        |
| 18158         |        | XA532                           | 08  |    | XA526  | 07        |     |    | 16B         | 9    |       |       | XB00DB4 | 01     |          |             |                  | RR4   | A1                  |                    |                    |        |
| 18210         |        | XA532                           | 09  |    | XA526  | 27        |     |    | 16B         | 9    |       |       | XB04DB4 | 01     |          |             |                  | RR4   | A5                  |                    |                    |        |
| 18171         |        | XA532                           | 10  |    | XA526  | 17        |     |    | 16B         | 9    |       |       | XB01DB4 | 01     |          |             |                  | RR4   | A2                  |                    |                    |        |
| 01618         |        | XA532                           | 11  |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |             |                  | RR4   |                     |                    |                    |        |
| 00709         |        | XA532                           | 12  |    |        |           |     |    |             |      |       |       | +5V     | 01     |          |             |                  | RR4   |                     |                    |                    |        |
| 00160         |        | XA532                           | 13  |    | XA532  | 14        |     |    | 16B         | 9    |       |       | +5VDCF  | 770    |          |             |                  | RR4   | BP                  |                    |                    | B05    |
| 00161         |        | XA532                           | 14  |    | XA532  | 21        |     |    | 16B         | 9    |       |       | +5VDCF  | 775    |          |             |                  | RR4   | BP                  |                    |                    | B05    |
| 03920         |        | XA532                           | 15  |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |             |                  | RR4   |                     |                    | KEYWAY             | C04    |
| 03921         |        | XA532                           | 16  |    |        |           |     |    |             |      |       |       | DNW     | 01     |          |             |                  | RR4   |                     |                    | KEYWAY             | C04    |
| 18145         |        | XA532                           | 17  |    | XA526  | 46        |     |    | 16B         | 9    |       |       | XB0PDB4 | 01     |          |             |                  | RR4   | B4                  |                    |                    |        |
| 03420         |        | XA532                           | 18  |    | XA532  | 30        |     |    | 16B         | 9    |       |       | G53202  | 03     |          |             |                  | RR4   | BC                  |                    |                    | B05    |
| 17968         |        | XA532                           | 19  |    | XA526  | 55        |     |    | 16B         | 9    |       |       | XB00DB4 | 01     |          |             |                  | RR4   | B5                  |                    |                    |        |
| 18223         |        | XA532                           | 20  |    | XA526  | 37        |     |    | 16B         | 9    |       |       | XB05DB4 | 01     |          |             |                  | RR4   | B1                  |                    |                    |        |
| 00162         |        | XA532                           | 21  |    | XA532  | 22        |     |    | 16B         | 9    |       |       | +5VDCF  | 780    |          |             |                  | RR4   | CP                  |                    |                    | B05    |
| 00163         |        | XA532                           | 22  |    | XA532  | 33        |     |    | 16B         | 9    |       |       | +5VDCF  | 785    |          |             |                  | RR4   | CP                  |                    |                    | B05    |
| CONNECTOR     | XA532  | CONTINUED ON THE NEXT PAGE **** |     |    |        |           |     |    |             |      |       |       |         |        |          |             |                  |       |                     |                    |                    |        |



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DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA532  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 405

| RECORD NUMBER                                  | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST. POINT | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD GP POWER PLANE | TEST POINTS |     | SIGNAL DESCRIPTION | ECO NO |
|--|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|-----------------|--------|--------|----------|------|--------|------------------|-------|---------------------|-------------|-----|--------------------|--------|
|  | PREFIX | CONNECTOR | PIN | INFO | PREFIX | CONNECTOR | PIN | INFO | MULTI GROUP | CODE | COLOR | IDENT |                 |        |        |          |      |        |                  |       |                     | AND/OR      |     |                    |        |
| 18034  |        | XA532     | 23  |      | XA526  | 65        |     |      |             |      |       |       | XBR3DB4         | 01     |        |          |      | RR4    | C3               |       |                     |             |     |                    |        |
| 18249  |        | XA532     | 24  |      | XA526  | 23        |     |      |             |      |       |       | XB07DB4         | 01     |        |          |      | RR4    | B3               |       |                     |             |     |                    |        |
| 18057  |        | XA532     | 25  |      | XA401  | 67        |     |      |             |      |       |       | XBR4DB4         | 02     |        |          |      | RR4    | C4               |       |                     |             | A01 |                    |        |
| 18236  |        | XA532     | 26  |      | XA526  | 41        |     |      |             |      |       |       | XB06DB4         | 01     |        |          |      | RR4    | B2               |       |                     |             |     |                    |        |
| 01619  |        | XA532     | 27  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |      | RR4    |                  |       |                     |             |     |                    |        |
| 00710  |        | XA532     | 28  |      |        |           |     |      |             |      |       |       | +5V             | 01     |        |          |      | RR4    |                  |       |                     |             |     |                    |        |
| 18079  |        | XA532     | 29  |      | XA401  | 69        |     |      |             |      |       |       | XBR5DB4         | 02     |        |          |      | RR4    | C5               |       |                     |             | A01 |                    |        |
| 03421  |        | XA532     | 30  |      | XA532  | 40        |     |      |             |      |       |       | G53202          | 04     |        |          |      | RR4    | CC               |       |                     |             | B05 |                    |        |
| 01620  |        | XA532     | 31  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |      | RR4    |                  |       |                     |             |     |                    |        |
| 03081  |        | XA532     | 32  |      |        |           |     |      |             |      |       |       | GND             | 01     |        |          |      | RR4    |                  |       |                     |             |     |                    |        |
| 21380  |        | XA532     | 32  |      |        |           |     |      |             |      |       |       | G53202          | 06     |        |          |      | RR4    |                  |       |                     |             | B05 |                    |        |
| 00164  |        | XA532     | 33  |      | XA532  | 34        |     |      |             |      |       |       | +5VDCF          | 790    |        |          |      | RR4    | DP               |       |                     |             | B05 |                    |        |
| 00165  |        | XA532     | 34  |      | XA532  | 49        |     |      |             |      |       |       | +5VDCF          | 795    |        |          |      | RR4    | DP               |       |                     |             | B05 |                    |        |
| 17916  |        | XA532     | 35  |      | XA528  | 78        |     |      |             |      |       |       | XB1NDB4         | 01     |        |          |      | RR4    | D3               |       |                     |             |     |                    |        |
| 17990  |        | XA532     | 36  |      | XA526  | 60        |     |      |             |      |       |       | XBK1DB4         | 01     |        |          |      | RR4    | C1               |       |                     |             |     |                    |        |
| 17846  |        | XA532     | 37  |      | XA401  | 77        |     |      |             |      |       |       | XBKMDB4         | 02     |        |          |      | RR4    | D4               |       |                     |             | A01 |                    |        |
| 18012  |        | XA532     | 38  |      | XA526  | 43        |     |      |             |      |       |       | XBR2DB4         | 01     |        |          |      | RR4    | C2               |       |                     |             |     |                    |        |
| 17886  |        | XA532     | 39  |      | XA528  | 61        |     |      |             |      |       |       | XBENDB4         | 01     |        |          |      | RR4    | D5               |       |                     |             |     |                    |        |
| 03422  |        | XA532     | 40  |      | XA532  | 32        |     |      |             |      |       |       | G53202          | 05     |        |          |      | RR4    | DC               |       |                     |             | B05 |                    |        |
| 18624  |        | XA532     | 41  |      | XA533  | 27        |     |      |             |      |       |       | XC04DB4         | 01     |        |          |      | RR4    | E5               |       |                     |             |     |                    |        |
| 18100  |        | XA532     | 42  |      | XA526  | 61        |     |      |             |      |       |       | XBK6DB4         | 01     |        |          |      | RR4    | D1               |       |                     |             |     |                    |        |
| 01621  |        | XA532     | 43  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |      | RR4    |                  |       |                     |             |     |                    |        |
| 03082  |        | XA532     | 44  |      |        |           |     |      |             |      |       |       | GND             | 01     |        |          |      | RR4    |                  |       |                     |             |     |                    |        |
| 21381  |        | XA532     | 44  |      | XA532  | 54        |     |      |             |      |       |       | G53244          | 01     |        |          |      | RR4    |                  |       |                     |             | B05 |                    |        |
| 18611  |        | XA532     | 45  |      | XA533  | 01        |     |      |             |      |       |       | XC03DB4         | 01     |        |          |      | RR4    | E4               |       |                     |             |     |                    |        |
| 18120  |        | XA532     | 46  |      | XA528  | 65        |     |      |             |      |       |       | XBR7DB4         | 01     |        |          |      | RR4    | D2               |       |                     |             |     |                    |        |
| 18598  |        | XA532     | 47  |      | XA533  | 14        |     |      |             |      |       |       | XC02DB4         | 01     |        |          |      | RR4    | E3               |       |                     |             |     |                    |        |
| 18585  |        | XA532     | 48  |      | XA533  | 17        |     |      |             |      |       |       | XC01DB4         | 01     |        |          |      | RR4    | E2               |       |                     |             |     |                    |        |
| 00166  |        | XA532     | 49  |      | XA532  | 50        |     |      |             |      |       |       | +5VDCF          | 800    |        |          |      | RR4    | EP               |       |                     |             | B05 |                    |        |
| 00167  |        | XA532     | 50  |      | XA532  | 59        |     |      |             |      |       |       | +5VDCF          | 805    |        |          |      | RR4    | EP               |       |                     |             | B05 |                    |        |
| 18383  |        | XA532     | 51  |      | XA403  | 25        |     |      |             |      |       |       | XCR0DB4         | 02     |        |          |      | RR4    | F5               |       |                     |             | A01 |                    |        |
| 18572  |        | XA532     | 52  |      | XA533  | 07        |     |      |             |      |       |       | XC00DB4         | 01     |        |          |      | RR4    | E1               |       |                     |             |     |                    |        |
| 18560  |        | XA532     | 53  |      | XA403  | 03        |     |      |             |      |       |       | XC0PDB4         | 02     |        |          |      | RR4    | F4               |       |                     |             | A01 |                    |        |
| 03423  |        | XA532     | 54  |      | XA532  | 64        |     |      |             |      |       |       | G53244          | 02     |        |          |      | RR4    | EC               |       |                     |             | B05 |                    |        |
| 18663  |        | XA532     | 55  |      | XA533  | 23        |     |      |             |      |       |       | XC07DB4         | 01     |        |          |      | RR4    | F3               |       |                     |             |     |                    |        |
| 18650  |        | XA532     | 56  |      | XA533  | 41        |     |      |             |      |       |       | XC06DB4         | 01     |        |          |      | RR4    | F2               |       |                     |             |     |                    |        |
| 03922  |        | XA532     | 57  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |      | RR4    |                  |       |                     |             |     | C04                |        |
| 03923  |        | XA532     | 58  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |      | RR4    |                  |       |                     |             |     | C04                |        |
| 00168  |        | XA532     | 59  |      | XA532  | 60        |     |      |             |      |       |       | +5VDCF          | 810    |        |          |      | RR4    | FP               |       |                     |             | B05 |                    |        |
| 00169  |        | XA532     | 60  |      | XA532  | 69        |     |      |             |      |       |       | +5VDCF          | 815    |        |          |      | RR4    | FP               |       |                     |             | B05 |                    |        |
| 18493  |        | XA532     | 61  |      | XA403  | 39        |     |      |             |      |       |       | XCR50B4         | 02     |        |          |      | RR4    | G5               |       |                     |             |     | C02                |        |
| 18637  |        | XA532     | 62  |      | XA533  | 37        |     |      |             |      |       |       | XC05DB4         | 01     |        |          |      | RR4    | F1               |       |                     |             |     |                    |        |
| 18471  |        | XA532     | 63  |      | XA403  | 37        |     |      |             |      |       |       | XCR4DB4         | 02     |        |          |      | RR4    | G4               |       |                     |             |     | C02                |        |
| 03424  |        | XA532     | 64  |      | XA532  | 74        |     |      |             |      |       |       | G53244          | 03     |        |          |      | RR4    | FC               |       |                     |             |     | B05                |        |
| 18449  |        | XA532     | 65  |      | XA403  | 35        |     |      |             |      |       |       | XCR3DB4         | 02     |        |          |      | RR4    | G3               |       |                     |             |     | C02                |        |
| 18426  |        | XA532     | 66  |      | XA533  | 43        |     |      |             |      |       |       | XCR2DB4         | 01     |        |          |      | RR4    | G2               |       |                     |             |     |                    |        |
| 03083  |        | XA532     | 67  |      |        |           |     |      |             |      |       |       | GND             | 01     |        |          |      | RR4    |                  |       |                     |             |     |                    |        |
| 21382  |        | XA532     | 67  |      |        |           |     |      |             |      |       |       | G53244          | 06     |        |          |      | RR4    |                  |       |                     |             |     | B05                |        |
| 01622  |        | XA532     | 68  |      |        |           |     |      |             |      |       |       | DNW             | 01     |        |          |      | RR4    |                  |       |                     |             |     |                    |        |
| 00170  |        | XA532     | 69  |      | XA532  | 70        |     |      |             |      |       |       | +5VDCF          | 820    |        |          |      | RR4    | GP               |       |                     |             |     | B05                |        |
| CONNECTOR XA532 CONTINUED ON THE NEXT PAGE *** |        |           |     |      |        |           |     |      |             |      |       |       |                 |        |        |          |      |        |                  |       |                     |             |     |                    |        |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA532  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 406

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       | SPEC INST MISC | SIGNAL | SEQ NO   | EQUATION | TERM    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OP | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|----------------|--------|----------|----------|---------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR |                |        |          |          |         |        |                  |       |                     |                    |                    |        |
| 00171   |        | XA532     | 70  |        | XA532     | 79  |             |      | 16B   | 9              |        |          |          |         |        |                  |       |                     |                    |                    | B05    |
| 18301   |        | XA532     | 71  |        | XA403     | 47  |             |      | 16B   | 9              |        |          |          |         |        | RR4              | GP    |                     |                    |                    | C02    |
| 18404   |        | XA532     | 72  |        | XA533     | 60  |             |      | 16B   | 9              |        |          |          |         |        | RR4              | G1    |                     |                    |                    |        |
| 18260   |        | XA532     | 73  |        | XA403     | 49  |             |      | 16B   | 9              |        |          |          |         |        | RR4              | H4    |                     |                    |                    | C02    |
| 03425   |        | XA532     | 74  |        | XA532     | 77  |             |      | 16B   | 9              |        |          |          |         |        | RR4              | GC    |                     |                    |                    | B05    |
| 18331   |        | XA532     | 75  |        | XA403     | 51  |             |      | 16B   | 9              |        |          |          |         |        | RR4              | H3    |                     |                    |                    | C02    |
| 18535   |        | XA532     | 76  |        | XA403     | 45  |             |      | 16B   | 9              |        |          |          |         |        | RR4              | H2    |                     |                    |                    | C02    |
| 03426   |        | XA532     | 77  |        | XA532     | 67  |             |      | 16B   | 9              |        |          |          |         |        | RR4              | HC    |                     |                    |                    | B05    |
| 18514   |        | XA532     | 78  |        | XA533     | 61  |             |      | 16B   | 9              |        |          |          |         |        | RR4              | H1    |                     |                    |                    |        |
| 00172   |        | XA532     | 79  |        | XA532     | 80  |             |      | 16B   | 9              |        |          |          |         |        | RR4              | HP    |                     |                    |                    | B05    |
| 00173   |        | XA532     | 80  |        | XA519     | 80  |             |      | 16B   | 9              |        |          |          |         |        | RR4              | HP    |                     |                    |                    | CT3    |
| 18605   |        | XA533     | 01  |        |           |     |             |      |       |                | J      | XC03CDX  | 01       | XC03CDX | 00     | 1                | DCF   | A7                  | 02A                | XC03DB4 BUSS       |        |
| 18612   |        | XA533     | 01  |        | XA403     | 13  |             |      | 16B   | 9              | P      | XC03CDX  | 02       | XC03DB4 | 01     | 1                | DCF   | A7                  | 02A                | DEV DATA LINE 3    | C02    |
| 18615   |        | XA533     | 02  |        |           |     |             |      |       |                |        | XC03DB4R | 02       |         |        |                  |       |                     | 01A                |                    |        |
| 21306   |        | XA533     | 02  |        |           |     |             |      |       |                |        | GND      | 01       |         |        |                  |       |                     | 01A                |                    |        |
| 18606   |        | XA533     | 03  |        | XA535     | 04  |             |      | 16B   | 9              |        | XC03COX  | 01       | XC03COX | 00     | 1                | DCF   | A8                  | 03A                |                    |        |
| 11028   |        | XA533     | 04  |        | XA539     | 04  |             |      | 16B   | 9              |        | TDL3A0   | 06       | XC03COX | 01     | 1                | DCF   | A8                  | 04A                |                    |        |
| 18576   |        | XA533     | 05  |        |           |     |             |      |       |                |        | XC00DB4R | 02       |         |        |                  |       |                     |                    |                    |        |
| 18291   |        | XA533     | 06  |        |           |     |             |      |       |                |        | XCCSSA   | 04       | XC00CDX | 01     | 1                | DCF   | A1                  | 05A                |                    |        |
| 20674   |        | XA533     | 06  |        |           |     |             |      |       |                | M      | XCCSSA   | 01       | XC01CDX | 01     | 1                | DCF   | A3                  | 05A                |                    |        |
| 20675   |        | XA533     | 06  |        |           |     |             |      |       |                | M      | XCCSSA   | 01       | XC02CDX | 01     | 1                | DCF   | A5                  | 05A                |                    |        |
| 20676   |        | XA533     | 06  |        |           |     |             |      |       |                | M      | XCCSSA   | 01       | XC03CDX | 01     | 1                | DCF   | A7                  | 05A                |                    |        |
| 18566   |        | XA533     | 07  |        |           |     |             |      |       |                | J      | XC00CDX  | 01       | XC00CDX | 00     | 1                | DCF   | A1                  | 02B                | XC00DB4 BUSS       |        |
| 18573   |        | XA533     | 07  |        | XA403     | 05  |             |      | 16B   | 9              | P      | XC00CDX  | 02       | XC00DB4 | 01     | 1                | DCF   | A1                  | 02B                | DEV DATA LINE 3    | C02    |
| 11012   |        | XA533     | 08  |        | XA436     | 69  |             |      | 16B   | 9              |        | TDL2A0   | 04       | XC02COX | 01     | 1                | DCF   | A6                  | 06A                |                    |        |
| 18567   |        | XA533     | 09  |        | XA535     | 11  |             |      | 16B   | 9              |        | XC00COX  | 01       | XC00COX | 00     | 1                | DCF   | A2                  | 03B                |                    |        |
| 18593   |        | XA533     | 10  |        | XA535     | 08  |             |      | 16B   | 9              |        | XC02COX  | 01       | XC02COX | 00     | 1                | DCF   | A6                  | 07A                |                    |        |
| 10989   |        | XA533     | 11  |        | XA539     | 11  |             |      | 16B   | 9              |        | TDL0A0   | 05       | XC00COX | 01     | 1                | DCF   | A2                  | 04B                |                    |        |
| 00711   |        | XA533     | 12  |        |           |     |             |      |       |                |        | +5V      | 01       |         |        |                  |       |                     | 08A                |                    |        |
| 11001   |        | XA533     | 13  |        | XA539     | 13  |             |      | 16B   | 9              |        | TDL1A0   | 05       | XC01COX | 01     | 1                | DCF   | A4                  | 05B                |                    |        |
| 18592   |        | XA533     | 14  |        |           |     |             |      |       |                | J      | XC02CDX  | 01       | XC02CDX | 00     | 1                | DCF   | A5                  | 08B                | XC02DB4 BUSS       |        |
| 18595   |        | XA533     | 14  |        | XA403     | 09  |             |      | 16B   | 9              | P      | XC02CDX  | 02       | XC02DB4 | 01     | 1                | DCF   | A5                  | 08B                | DEV DATA LINE 2    | C02    |
| 18582   |        | XA533     | 15  |        |           |     |             |      |       |                |        | XC01COX  | 03       | XC01COX | 00     | 1                | DCF   | A4                  | 06B                |                    |        |
| 18602   |        | XA533     | 16  |        |           |     |             |      |       |                |        | XC02DB4R | 02       |         |        |                  |       |                     |                    |                    |        |
| 21307   |        | XA533     | 16  |        |           |     |             |      |       |                | J      | GND      | 01       |         |        |                  |       |                     |                    |                    |        |
| 18579   |        | XA533     | 17  |        |           |     |             |      |       |                | J      | XC01COX  | 01       | XC01COX | 00     | 1                | DCF   | A3                  | 07B                | XC01DB4 BUSS       |        |
| 18586   |        | XA533     | 17  |        | XA403     | 07  |             |      | 16B   | 9              | P      | XC01COX  | 02       | XC01DB4 | 01     | 1                | DCF   | A3                  | 07B                | DEV DATA LINE 1    | C02    |
| 01623   |        | XA533     | 18  |        |           |     |             |      |       |                |        | DNW      | 01       |         |        |                  |       |                     |                    |                    |        |
| 18589   |        | XA533     | 19  |        |           |     |             |      |       |                |        | XC01DB4R | 02       |         |        |                  |       |                     |                    |                    |        |
| 01624   |        | XA533     | 20  |        |           |     |             |      |       |                |        | DNW      | 01       |         |        |                  |       |                     |                    |                    |        |
| 18667   |        | XA533     | 21  |        |           |     |             |      |       |                |        | XC07DB4R | 02       |         |        |                  |       |                     |                    |                    |        |
| 01625   |        | XA533     | 22  |        |           |     |             |      |       |                |        | DNW      | 01       |         |        |                  |       |                     |                    |                    |        |
| 18657   |        | XA533     | 23  |        |           |     |             |      |       |                | J      | XC07CDX  | 01       | XC07CDX | 00     | 1                | DCF   | B7                  | 10A                | XC07DB4 BUSS       |        |
| 18664   |        | XA533     | 23  |        | XA403     | 23  |             |      | 16B   | 9              | P      | XC07CDX  | 02       | XC07DB4 | 01     | 1                | DCF   | B7                  | 10A                | DEV DATA LINE 7    | C02    |
| 01626   |        | XA533     | 24  |        |           |     |             |      |       |                |        | DNW      | 01       |         |        |                  |       |                     |                    |                    |        |
| 18628   |        | XA533     | 25  |        |           |     |             |      |       |                |        | XC04DB4R | 02       |         |        |                  |       |                     |                    |                    |        |
| 01627   |        | XA533     | 26  |        |           |     |             |      |       |                |        | DNW      | 01       |         |        |                  |       |                     |                    |                    |        |
| 18618   |        | XA533     | 27  |        |           |     |             |      |       |                | J      | XC04CDX  | 01       | XC04CDX | 00     | 1                | DCF   | B1                  | 10B                | XC04DB4 BUSS       |        |
| CONNECTOR XA533 ) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |                |        |          |          |         |        |                  |       |                     |                    |                    |        |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA533  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 407

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | POINT | SIGNAL      | SEQ NO | EQUATION | TERM | FACTOR | C.T. OR CHIP TYPE | GND | LOAD OF POWER PLANE | TEST POINTS (END OF) | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|-------|-------------|--------|----------|------|--------|-------------------|-----|---------------------|----------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |       |             |        |          |      |        |                   |     |                     |                      |                    |        |
| 18625   |        | XA533     | 27  |        | XA403     | 17  |             | 16B  | 9     |       | P     | XC04CDX +5V | 02 01  | XC04DB4  | 01   | 1      | DCF               | B1  | 10B                 | DEV DATA LINE 4      | C02                |        |
| 00712   |        | XA533     | 28  |        |           |     |             |      |       |       |       |             |        |          |      |        |                   |     | 21B                 |                      |                    |        |
| 18621   |        | XA533     | 29  |        |           |     |             |      |       |       |       | XC04C0X     | 03     | XC04C0X  | 00   | 1      | DCF               | B2  | 11B                 |                      |                    |        |
| 18658   |        | XA533     | 30  |        | XA535     | 34  |             | 16B  | 9     |       |       | XC07C0X     | 01     | XC07C0X  | 00   | 1      | DCF               | B8  | 11A                 |                      |                    |        |
| 11041   |        | XA533     | 31  |        | XA539     | 31  |             | 16B  | 9     |       |       | TDL4A0      | 06     | XC04C0X  | 01   | 1      | DCF               | B2  | 12B                 |                      |                    |        |
| 03084   |        | XA533     | 32  |        |           |     |             |      |       |       |       | GND         | 01     |          |      |        |                   |     |                     |                      |                    |        |
| 11054   |        | XA533     | 33  |        | XA539     | 33  |             | 16B  | 9     |       |       | TDL5A0      | 06     | XC05C0X  | 01   | 1      | DCF               | B4  | 13B                 |                      |                    |        |
| 11079   |        | XA533     | 34  |        | XA539     | 34  |             | 16B  | 9     |       |       | TDL7A0      | 06     | XC07C0X  | 00   | 1      | DCF               | B8  | 12A                 |                      |                    |        |
| 18634   |        | XA533     | 35  |        |           |     |             |      |       |       |       | XC05C0X     | 03     | XC05C0X  | 00   | 1      | DCF               | B4  | 14B                 |                      |                    |        |
| 18250   |        | XA533     | 36  |        | XA533     | 06  |             | 16B  | 9     |       |       | XCCSSA      | 03     | XC04C0X  | 01   | 1      | DCF               | B1  | 13A                 |                      |                    |        |
| 20677   |        | XA533     | 36  |        |           |     |             |      |       |       |       | XCCSSA      | 01     | XC06C0X  | 01   | 1      | DCF               | B5  | 13A                 |                      |                    |        |
| 20678   |        | XA533     | 36  |        |           |     |             |      |       |       | M     | XCCSSA      | 01     | XC05C0X  | 01   | 1      | DCF               | B3  | 13A                 |                      |                    |        |
| 20679   |        | XA533     | 36  |        |           |     |             |      |       |       | M     | XCCSSA      | 01     | XC07C0X  | 01   | 1      | DCF               | B7  | 13A                 |                      |                    |        |
| 18631   |        | XA533     | 37  |        |           |     |             |      |       |       | J     | XC05C0X     | 01     | XC05C0X  | 00   | 1      | DCF               | B3  | 15B                 | XC05DB4 BUSS         |                    |        |
| 18638   |        | XA533     | 37  |        | XA403     | 19  |             | 16B  | 9     |       | P     | XC05C0X     | 02     | XC05DB4  | 01   | 1      | DCF               | B3  | 15B                 | DEV DATA LINE 5      | C02                |        |
| 11066   |        | XA533     | 38  |        | XA539     | 38  |             | 16B  | 9     |       |       | TDL6A0      | 05     | XC06C0X  | 01   | 1      | DCF               | B6  | 14A                 |                      |                    |        |
| 18641   |        | XA533     | 39  |        |           |     |             |      |       |       |       | XC05DB4R    | 02     |          |      |        |                   |     |                     |                      |                    |        |
| 18647   |        | XA533     | 40  |        |           |     |             |      |       |       |       | XC06C0X     | 03     | XC06C0X  | 00   | 1      | DCF               | B6  | 15A                 |                      |                    |        |
| 18644   |        | XA533     | 41  |        |           |     |             |      |       |       | J     | XC06C0X     | 01     | XC06C0X  | 00   | 1      | DCF               | B5  | 16A                 | XC06DB4 BUSS         |                    |        |
| 18651   |        | XA533     | 41  |        | XA403     | 21  |             | 16B  | 9     |       | P     | XC06C0X     | 02     | XC06DB4  | 01   | 1      | DCF               | B5  | 16A                 | DEV DATA LINE 6      | C02                |        |
| 18654   |        | XA533     | 42  |        |           |     |             |      |       |       |       | XC06DB4R    | 02     |          |      |        |                   |     | 20B                 |                      |                    |        |
| 18421   |        | XA533     | 43  |        |           |     |             |      |       |       | J     | XCR2C0X     | 01     | XCR2C0X  | 00   | 1      | DCF               | C7  | 25A                 | XCR2DB4 BUSS         |                    |        |
| 18427   |        | XA533     | 43  |        | XA403     | 33  |             | 16B  | 9     |       | P     | XCR2C0X     | 02     | XCR2DB4  | 01   | 1      | DCF               | C7  | 25A                 |                      | C02                |        |
| 18429   |        | XA533     | 44  |        | XA403     | 34  |             | 16B  | 9     |       |       | XCR2DB4R    | 01     |          |      |        |                   |     |                     |                      |                    |        |
| 21308   |        | XA533     | 44  |        |           |     |             |      |       |       |       | GND         | 01     |          |      |        |                   |     |                     |                      |                    |        |
| 18562   |        | XA533     | 45  |        | XA403     | 04  |             | 16B  | 9     |       |       | XC0PDB4R    | 01     |          |      |        |                   |     | 27A                 |                      |                    |        |
| 18554   |        | XA533     | 46  |        |           |     |             |      |       |       | J     | XC0PC0X     | 01     | XC0PC0X  | 00   | 1      | DCF               | C1  | 25B                 | XC0PDB4 BUSS         |                    |        |
| 18559   |        | XA533     | 46  |        | XA532     | 53  |             | 16B  | 9     |       | P     | XC0PC0X     | 01     | XC0PDB4  | 01   | 1      | DCF               | C1  | 25B                 | DEV DATA LINE PART   |                    |        |
| 18555   |        | XA533     | 47  |        | XA534     | 49  |             | 16B  | 9     |       |       | XC0PC0X     | 01     | XC0PC0X  | 00   | 1      | DCF               | C2  | 26B                 |                      |                    |        |
| 18422   |        | XA533     | 48  |        | XA538     | 22  |             | 16B  | 9     |       |       | XCR2C0X     | 01     | XCR2C0X  | 00   | 1      | DCF               | C8  | 26A                 | DEV REQ REC. 2       |                    |        |
| 10982   |        | XA533     | 49  |        | XA539     | 49  |             | 16B  | 9     |       |       | TDLPA0      | 06     | XC0PC0X  | 01   | 1      | DCF               | C2  | 27B                 |                      |                    |        |
| 18309   |        | XA533     | 50  |        | XA535     | 52  |             | 16B  | 9     |       |       | XCGNDA      | 05     | XCR2C0X  | 01   | 1      | DCF               | C8  | 28A                 |                      |                    |        |
| 18307   |        | XA533     | 51  |        | XA533     | 54  |             | 16B  | 9     |       |       | XCGNDA      | 03     | XCR0C0X  | 01   | 1      | DCF               | C4  | 28B                 |                      |                    |        |
| 18289   |        | XA533     | 52  |        | XA533     | 36  |             | 16B  | 9     |       |       | XCCSSA      | 02     | XC0PC0X  | 01   | 1      | DCF               | C1  | 29A                 |                      |                    |        |
| 20680   |        | XA533     | 52  |        |           |     |             |      |       |       | M     | XCCSSA      | 01     | XCR2C0X  | 01   | 1      | DCF               | C7  | 29A                 |                      |                    |        |
| 20681   |        | XA533     | 52  |        |           |     |             |      |       |       | M     | XCCSSA      | 01     | XCR0C0X  | 01   | 1      | DCF               | C3  | 29A                 |                      |                    |        |
| 20682   |        | XA533     | 52  |        |           |     |             |      |       |       | M     | XCCSSA      | 01     | XCR1C0X  | 01   | 1      | DCF               | C5  | 29A                 |                      |                    |        |
| 18385   |        | XA533     | 53  |        | XA403     | 26  |             | 16B  | 9     |       |       | XCR0DB4R    | 01     |          |      |        |                   |     |                     |                      |                    |        |
| 18308   |        | XA533     | 54  |        | XA533     | 50  |             | 16B  | 9     |       |       | XCGNDA      | 04     | XCR1C0X  | 01   | 1      | DCF               | C6  | 30A                 |                      |                    |        |
| 18377   |        | XA533     | 55  |        |           |     |             |      |       |       | J     | XCR0C0X     | 01     | XCR0C0X  | 00   | 1      | DCF               | C3  | 30B                 | XCR0DB4 BUSS         |                    |        |
| 18382   |        | XA533     | 55  |        | XA532     | 51  |             | 16B  | 9     |       | P     | XCR0C0X     | 01     | XCR0DB4  | 01   | 1      | DCF               | C3  | 30B                 |                      |                    |        |
| 18378   |        | XA533     | 56  |        | XA538     | 11  |             | 16B  | 9     |       |       | XCR0C0X     | 01     | XCR0C0X  | 00   | 1      | DCF               | C4  | 29B                 | DEV REQ REC. 3       |                    |        |
| 18400   |        | XA533     | 57  |        | XA538     | 06  |             | 16B  | 9     |       |       | XCR1C0X     | 01     | XCR1C0X  | 00   | 1      | DCF               | C6  | 31A                 | DEV REQ REC. 1       |                    |        |
| 18407   |        | XA533     | 58  |        | XA403     | 30  |             | 16B  | 9     |       |       | XCR1DB4R    | 01     |          |      |        |                   |     |                     |                      |                    |        |
| 21309   |        | XA533     | 58  |        |           |     |             |      |       |       |       | GND         | 01     |          |      |        |                   |     |                     |                      |                    |        |
| 18517   |        | XA533     | 59  |        | XA403     | 42  |             | 16B  | 9     |       |       | XCR0DB4R    | 01     |          |      |        |                   |     |                     |                      |                    |        |
| 18399   |        | XA533     | 60  |        |           |     |             |      |       |       | J     | XCR1C0X     | 01     | XCR1C0X  | 00   | 1      | DCF               | C5  | 31B                 | XCR1DB4 BUSS         |                    |        |
| 18405   |        | XA533     | 60  |        | XA403     | 29  |             | 16B  | 9     |       | P     | XCR1C0X     | 02     | XCR1DB4  | 01   | 1      | DCF               | C5  | 31B                 |                      | C02                |        |
| 18509   |        | XA533     | 61  |        |           |     |             |      |       |       | J     | XCR6C0X     | 01     | XCR6C0X  | 00   | 1      | DCF               | D7  | 33A                 | XCR6DB4 BUSS         |                    |        |
| 18515   |        | XA533     | 61  |        | XA403     | 41  |             | 16B  | 9     |       | P     | XCR6C0X     | 02     | XCR6DB4  | 01   | 1      | DCF               | D7  | 31A                 |                      | C02                |        |
| CONNECTOR XA533 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |       |             |        |          |      |        |                   |     |                     |                      |                    |        |

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DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA533  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 408

| RECORD NUMBER                                     | FROM   |           |     | TO | WIRE  |      |             |       | SIGNAL    | SEQ NO | EQUATION | TERM | FACTORY | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|-------|------|-------------|-------|-----------|--------|----------|------|---------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |    | PIN   | SIZE | MULTI GROUP | CODE  |           |        |          |      |         |                  |       |                     |                    |                    |        |
| 01628   |        | XA533     | 62  |    |       |      |             |       | DNW       | 01     |          |      |         | DCF              |       |                     |                    |                    |        |
| 01629   |        | XA533     | 63  |    |       |      |             |       | DNW       | 01     |          |      |         | DCF              |       |                     |                    |                    |        |
| 01630   |        | XA533     | 64  |    |       |      |             |       | DNW       | 01     |          |      |         | DCF              |       |                     |                    |                    |        |
| 18443   |        | XA533     | 65  |    |       |      |             |       | J XCR3CDX | 01     | XCR3CDX  | 00   | 1       | DCF              | D1    |                     | 32B                | XCR3DB4 BUSS       |        |
| 18448   |        | XA533     | 65  |    | XA532 | 65   |             | 16B 9 | P XCR3CDX | 01     | XCR3DB4  | 01   | 1       | DCF              | D1    |                     | 32B                |                    |        |
| 01631   |        | XA533     | 66  |    |       |      |             |       | DNW       | 01     |          |      |         | DCF              |       |                     |                    |                    |        |
| 18451   |        | XA533     | 67  |    | XA403 | 36   |             | 16B 9 | XCR3DB4R  | 01     |          |      |         | DCF              |       |                     |                    |                    |        |
| 21310   |        | XA533     | 67  |    |       |      |             |       | GND       | 01     |          |      |         | DCF              |       |                     |                    |                    |        |
| 18510   |        | XA533     | 68  |    | XA538 | 52   |             | 16B 9 | XCR6COX   | 01     | XCR6COX  | 00   | 1       | DCF              | D8    |                     | 34A                | DEV REQ REC. 6     |        |
| 18444   |        | XA533     | 69  |    | XA538 | 23   |             | 16B 9 | XCR3COX   | 01     | XCR3COX  | 00   | 1       | DCF              | D2    |                     | 33B                | DEV REQ REC. 3     |        |
| 06308   |        | XA533     | 70  |    | XA533 | 74   |             | 16B 9 | SPI309    | 09     | XCR6COX  | 01   | 1       | DCF              | D8    |                     | 35A                |                    |        |
| 06311   |        | XA533     | 71  |    | XA526 | 70   |             | 16B 9 | SPI309    | 12     | XCR3COX  | 01   | 1       | DCF              | D2    |                     | 34B                |                    |        |
| 06282   |        | XA533     | 72  |    | XA526 | 72   |             | 16B 9 | SPI301    | 03     | XCR3CDX  | 01   | 1       | DCF              | D1    |                     | 36A                |                    |        |
| 20351   |        | XA533     | 72  |    |       |      |             |       | M SPI301  | 01     | XCR5CDX  | 01   | 1       | DCF              | D5    |                     | 36A                |                    |        |
| 20352   |        | XA533     | 72  |    |       |      |             |       | M SPI301  | 01     | XCR4COX  | 01   | 1       | DCF              | D3    |                     | 36A                |                    |        |
| 20353   |        | XA533     | 72  |    |       |      |             |       | M SPI301  | 01     | XCR6COX  | 01   | 1       | DCF              | D7    |                     | 36A                |                    |        |
| 06310   |        | XA533     | 73  |    | XA533 | 71   |             | 16B 9 | SPI309    | 11     | XCR4COX  | 01   | 1       | DCF              | D4    |                     | 35B                |                    |        |
| 06309   |        | XA533     | 74  |    | XA533 | 73   |             | 16B 9 | SPI309    | 10     | XCR5COX  | 01   | 1       | DCF              | D6    |                     | 37A                |                    |        |
| 18466   |        | XA533     | 75  |    | XA538 | 38   |             | 16B 9 | XCR4COX   | 01     | XCR4COX  | 00   | 1       | DCF              | D4    |                     | 36B                | DEV REQ REC. 4     |        |
| 18488   |        | XA533     | 76  |    | XA538 | 35   |             | 16B 9 | XCR5COX   | 01     | XCR5COX  | 00   | 1       | DCF              | D6    |                     | 38A                | DEV REQ REC. 5     |        |
| 18473   |        | XA533     | 77  |    | XA403 | 38   |             | 16B 9 | XCR4DB4R  | 01     |          |      |         | DCF              |       |                     |                    |                    |        |
| 18465   |        | XA533     | 78  |    |       |      |             |       | J XCR4CDX | 01     | XCR4COX  | 00   | 1       | DCF              | D3    |                     | 37B                | XCR4DB4 BUSS       |        |
| 18470   |        | XA533     | 78  |    | XA532 | 63   |             | 16B 9 | P XCR4CDX | 01     | XCR4DB4  | 01   | 1       | DCF              | D3    |                     | 37B                |                    |        |
| 18495   |        | XA533     | 79  |    | XA403 | 40   |             | 16B 9 | XCR5DB4R  | 01     |          |      |         | DCF              |       |                     | 40B                |                    |        |
| 18487   |        | XA533     | 80  |    |       |      |             |       | J XCR5COX | 01     | XCR5DB4  | 00   | 1       | DCF              | D5    |                     | 38B                | XCR5DB4 BUSS       |        |
| 18492   |        | XA533     | 80  |    | XA532 | 61   |             | 16B 9 | P XCR5COX | 01     | XCR5DB4  | 01   | 1       | DCF              | D5    |                     | 38B                |                    |        |
| 10848   |        | XA534     | 01  |    | XA528 | 01   |             | 16B 9 | P XC03BDX | 06     | TDI3BB4  | 06   | 1       | DCF              | A7    |                     | 02A                | DEV REQ 3 TO IOC   |        |
| 18604   |        | XA534     | 01  |    |       |      |             |       | J XC03BDX | 01     | XC03BDX  | 00   | 1       | DCF              | A7    |                     | 02A                | TDI3BB4 BUSS       |        |
| 03234   |        | XA534     | 02  |    |       |      |             |       | GND       | 01     |          |      |         | DCF              |       |                     | 01A                |                    |        |
| 20697   |        | XA534     | 03  |    |       |      |             |       | M XC03BOX | 01     | XC03BOX  | 00   | 1       | DCF              | A8    |                     | 03A                |                    |        |
| 18459   |        | XA534     | 04  |    | XA536 | 14   |             | 16B 9 | XCR30S    | 01     | XC03BOX  | 01   | 1       | DCF              | A8    |                     | 04A                |                    |        |
| 03245   |        | XA534     | 05  |    |       |      |             |       | SPP       | 01     |          |      |         | DCF              |       |                     |                    |                    |        |
| 18285   |        | XA534     | 06  |    | XA534 | 36   |             | 16B 9 | XCCSIA    | 01     | XC00B0X  | 01   | 1       | DCF              | A1    |                     | 05A                |                    |        |
| 20668   |        | XA534     | 06  |    |       |      |             |       | M XCCSIA  | 01     | XC03B0X  | 01   | 1       | DCF              | A7    |                     | 05A                |                    |        |
| 20669   |        | XA534     | 06  |    |       |      |             |       | M XCCSIA  | 01     | XC01B0X  | 01   | 1       | DCF              | A3    |                     | 05A                |                    |        |
| 20670   |        | XA534     | 06  |    |       |      |             |       | M XCCSIA  | 01     | XC02B0X  | 01   | 1       | DCF              | A5    |                     | 05A                |                    |        |
| 10768   |        | XA534     | 07  |    | XA535 | 07   |             | 16B 9 | P XC00B0X | 07     | TDI0BB4  | 06   | 1       | DCF              | A1    |                     | 02B                | DEV REQ 0 TO IOC   |        |
| 18565   |        | XA534     | 07  |    |       |      |             |       | J XC00B0X | 01     | XC00B0X  | 00   | 1       | DCF              | A1    |                     | 02B                | TDI0BB4 BUSS       |        |
| 18437   |        | XA534     | 08  |    | XA536 | 22   |             | 16B 9 | XCR20S    | 01     | XC02B0X  | 01   | 1       | DCF              | A6    |                     | 06A                |                    |        |
| 20691   |        | XA534     | 09  |    |       |      |             |       | M XC00B0X | 01     | XC00B0X  | 00   | 1       | DCF              | A2    |                     | 03B                |                    |        |
| 20695   |        | XA534     | 10  |    |       |      |             |       | M XC02B0X | 01     | XC02B0X  | 00   | 1       | DCF              | A6    |                     | 07A                |                    |        |
| 18393   |        | XA534     | 11  |    | XA536 | 06   |             | 16B 9 | XCR00S    | 01     | XC00B0X  | 01   | 1       | DCF              | A2    |                     | 04B                |                    |        |
| 00713   |        | XA534     | 12  |    |       |      |             |       | +5V       | 01     |          |      |         | DCF              |       |                     | 08A                |                    |        |
| 18415   |        | XA534     | 13  |    | XA536 | 01   |             | 16B 9 | XCR10S    | 01     | XC01B0X  | 01   | 1       | DCF              | A4    |                     | 05B                |                    |        |
| 10821   |        | XA534     | 14  |    | XA528 | 14   |             | 16B 9 | P XC02BDX | 06     | TDI2BB4  | 06   | 1       | DCF              | A5    |                     | 08B                | DEV REQ 2 TO IOC   |        |
| 18591   |        | XA534     | 14  |    |       |      |             |       | J XC02BDX | 01     | XC02BDX  | 00   | 1       | DCF              | A5    |                     | 08B                | TDI2BB4 BUSS       |        |
| 20693   |        | XA534     | 15  |    |       |      |             |       | M XC01B0X | 01     | XC01B0X  | 00   | 1       | DCF              | A4    |                     | 06B                |                    |        |
| 03256   |        | XA534     | 16  |    |       |      |             |       | GND       | 01     |          |      |         | DCF              |       |                     |                    |                    |        |
| CONNECTOR (XA534) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |       |      |             |       |           |        |          |      |         |                  |       |                     |                    |                    |        |

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DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA534  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 409

| RECORD NUMBER | FROM   |           |                                 |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST WIRE | SIGNAL  | SEQ NO | EQUATION | TERM | CKT OF CHIP TYPE | GROUP | LOAD GR. POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |                    |
|---------------|--------|-----------|---------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|---------------|---------|--------|----------|------|------------------|-------|----------------------|--------------------|--------------------|------------------|--------------------|
|               | PREFIX | CONNECTOR | PIN                             | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |               |         |        |          |      |                  |       |                      |                    |                    |                  |                    |
| 10794         |        | XA534     | 17                              |      |        | XA528     | 17  |      |             |      |       |       | P             | XC018DX | 06     | TDI18B4  | 06   | 1                | DCF   | A3                   |                    | 07B                | DEV REQ 1 TO IOC |                    |
| 18578         |        | XA534     | 17                              |      |        | XA528     | 17  |      |             |      |       |       | J             | XC018DX | 01     | XC018DX  | 00   | 1                | DCF   | A3                   |                    | 07B                | TDI18B4 BUSS     |                    |
| 01632         |        | XA534     | 18                              |      |        |           |     |      |             |      |       |       |               | DNW     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 03267         |        | XA534     | 19                              |      |        |           |     |      |             |      |       |       |               | SPP     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 01633         |        | XA534     | 20                              |      |        |           |     |      |             |      |       |       |               | DNW     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 03290         |        | XA534     | 21                              |      |        |           |     |      |             |      |       |       |               | SPP     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 01634         |        | XA534     | 22                              |      |        |           |     |      |             |      |       |       |               | DNW     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 10956         |        | XA534     | 23                              |      |        | XA528     | 23  |      |             | 16B  | 9     |       | P             | XC078DX | 06     | TDI78B4  | 06   | 1                | DCF   | B7                   |                    | 10A                | DEV REQ 7 TO IOC |                    |
| 18656         |        | XA534     | 23                              |      |        |           |     |      |             |      |       |       | J             | XC078DX | 01     | XC078DX  | 00   | 1                | DCF   | B7                   |                    | 10A                | TDI78B4 BUSS     |                    |
| 01635         |        | XA534     | 24                              |      |        |           |     |      |             |      |       |       |               | DNW     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 03279         |        | XA534     | 25                              |      |        |           |     |      |             |      |       |       |               | SPP     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 01636         |        | XA534     | 26                              |      |        |           |     |      |             |      |       |       |               | DNW     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 10876         |        | XA534     | 27                              |      |        | XA535     | 27  |      |             | 16B  | 9     |       | P             | XC048DX | 07     | TDI48B4  | 06   | 1                | DCF   | B1                   |                    | 10B                | DEV REQ 4 TO IOC |                    |
| 18617         |        | XA534     | 27                              |      |        |           |     |      |             |      |       |       | J             | XC048DX | 01     | XC048DX  | 00   | 1                | DCF   | B1                   |                    | 10B                | TDI48B4 BUSS     |                    |
| 00714         |        | XA534     | 28                              |      |        |           |     |      |             |      |       |       |               | +5V     | 01     |          |      |                  | DCF   |                      |                    |                    | 21B              |                    |
| 20699         |        | XA534     | 29                              |      |        |           |     |      |             |      |       |       | M             | XC048DX | 01     | XC048DX  | 00   | 1                | DCF   | B2                   |                    |                    | 11B              |                    |
| 20705         |        | XA534     | 30                              |      |        |           |     |      |             |      |       |       | M             | XC078DX | 01     | XC078DX  | 00   | 1                | DCF   | B8                   |                    |                    | 11A              |                    |
| 18481         |        | XA534     | 31                              |      |        | XA536     | 38  |      |             | 16B  | 9     |       |               | XCR40S  | 01     | XC048DX  | 01   | 1                | DCF   | B2                   |                    |                    | 12B              |                    |
| 03085         |        | XA534     | 32                              |      |        |           |     |      |             |      |       |       |               | GND     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 18506         |        | XA534     | 33                              |      |        |           |     |      |             |      |       |       |               | XCR50S  | 04     | XC058DX  | 01   | 1                | DCF   | B4                   |                    |                    | 13B              |                    |
| 18546         |        | XA534     | 34                              |      |        |           |     |      |             |      |       |       |               | XCR70S  | 03     | XC078DX  | 01   | 1                | DCF   | B8                   |                    |                    | 12A              |                    |
| 20701         |        | XA534     | 35                              |      |        |           |     |      |             |      |       |       | M             | XC058DX | 01     | XC058DX  | 00   | 1                | DCF   | B4                   |                    |                    | 14B              |                    |
| 18286         |        | XA534     | 36                              |      |        | XA536     | 74  |      |             | 16B  | 9     |       |               | XCCSIA  | 02     | XC048DX  | 01   | 1                | DCF   | B1                   |                    |                    | 13A              |                    |
| 20671         |        | XA534     | 36                              |      |        |           |     |      |             |      |       |       | M             | XCCSIA  | 01     | XC078DX  | 01   | 1                | DCF   | B7                   |                    |                    | 13A              |                    |
| 20672         |        | XA534     | 36                              |      |        |           |     |      |             |      |       |       | M             | XCCSIA  | 01     | XC058DX  | 01   | 1                | DCF   | B3                   |                    |                    | 13A              |                    |
| 20673         |        | XA534     | 36                              |      |        |           |     |      |             |      |       |       | M             | XCCSIA  | 01     | XC068DX  | 01   | 1                | DCF   | B5                   |                    |                    | 13A              |                    |
| 10902         |        | XA534     | 37                              |      |        | XA528     | 37  |      |             | 16B  | 9     |       | P             | XC058DX | 06     | TDI58B4  | 06   | 1                | DCF   | B3                   |                    |                    | 15B              | DEV REQ 5 TO IOC   |
| 18630         |        | XA534     | 37                              |      |        |           |     |      |             |      |       |       | J             | XC058DX | 01     | XC058DX  | 00   | 1                | DCF   | B3                   |                    |                    | 15B              | TDI58B4 BUSS       |
| 18524         |        | XA534     | 38                              |      |        | XA536     | 52  |      |             | 16B  | 9     |       |               | XCR60S  | 01     | XC068DX  | 01   | 1                | DCF   | B6                   |                    |                    | 14A              |                    |
| 03303         |        | XA534     | 39                              |      |        |           |     |      |             |      |       |       |               | SPP     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 20703         |        | XA534     | 40                              |      |        |           |     |      |             |      |       |       | M             | XC068DX | 01     | XC068DX  | 00   | 1                | DCF   | B6                   |                    |                    | 15A              |                    |
| 10930         |        | XA534     | 41                              |      |        | XA535     | 41  |      |             | 16B  | 9     |       | P             | XC068DX | 07     | TDI68B4  | 06   | 1                | DCF   | B5                   |                    |                    | 16A              | DEV REQ 6 TO IOC   |
| 18643         |        | XA534     | 41                              |      |        |           |     |      |             |      |       |       | J             | XC068DX | 01     | XC068DX  | 00   | 1                | DCF   | B5                   |                    |                    | 16A              | TDI68B4 BUSS       |
| 03315         |        | XA534     | 42                              |      |        |           |     |      |             |      |       |       |               | SPP     | 01     |          |      |                  | DCF   |                      |                    |                    |                  | 20B                |
| 08106         |        | XA534     | 43                              |      |        |           |     |      |             |      |       |       |               | SPO     | 01     |          |      |                  | DCF   | C7                   |                    |                    |                  | 25A                |
| 03337         |        | XA534     | 44                              |      |        |           |     |      |             |      |       |       |               | GND     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 03326         |        | XA534     | 45                              |      |        |           |     |      |             |      |       |       |               | SPP     | 01     |          |      |                  | DCF   |                      |                    |                    |                  | 27A                |
| 10744         |        | XA534     | 46                              |      |        | XA540     | 46  |      |             | 16B  | 9     |       | P             | XC0PADX | 05     | TDIPBB4  | 03   | 1                | DCF   | C1                   |                    |                    | 25B              | IOC INPUT DATA LIN |
| 18553         |        | XA534     | 46                              |      |        |           |     |      |             |      |       |       | J             | XC0PADX | 01     | XC0PADX  | 00   | 1                | DCF   | C1                   |                    |                    | 25B              | TDIPBB4 BUSS       |
| 20689         |        | XA534     | 47                              |      |        |           |     |      |             |      |       |       | M             | XC0PADX | 01     | XC0PADX  | 00   | 1                | DCF   | C2                   |                    |                    | 26B              |                    |
| 08107         |        | XA534     | 48                              |      |        |           |     |      |             |      |       |       |               | SPO     | 01     |          |      |                  | DCF   | C8                   |                    |                    |                  | 26A                |
| 18556         |        | XA534     | 49                              |      |        |           |     |      |             |      |       |       |               | XC0PCOX | 02     | XC0PADX  | 01   | 1                | DCF   | C2                   |                    |                    |                  | 27B                |
| 06143         |        | XA534     | 50                              |      |        | XA528     | 54  |      |             | 16B  | 9     |       |               | SP1041  | 30     |          |      |                  | DCF   | C8                   |                    |                    |                  | 28A                |
| 18327         |        | XA534     | 51                              |      |        |           |     |      |             |      |       |       |               | XCINCOX | 02     | XCINAOX  | 01   | 1                | DCF   | C4                   |                    |                    |                  | 28B                |
| 18269         |        | XA534     | 52                              |      |        | XA536     | 51  |      |             | 16B  | 9     |       |               | XCCSDA  | 01     | XC0PADX  | 01   | 1                | DCF   | C1                   |                    |                    |                  | 29A                |
| 20661         |        | XA534     | 52                              |      |        |           |     |      |             |      |       |       | M             | XCCSDA  | 01     | XCINADX  | 01   | 1                | DCF   | C3                   |                    |                    |                  | 29A                |
| 03349         |        | XA534     | 53                              |      |        |           |     |      |             |      |       |       |               | SPP     | 01     |          |      |                  | DCF   |                      |                    |                    |                  |                    |
| 06207         |        | XA534     | 54                              |      |        | XA531     | 51  |      |             | 16B  | 9     |       |               | SP1043  | 22     |          |      |                  | DCF   | C6                   |                    |                    |                  | 30A                |
| 13325         |        | XA534     | 55                              |      |        | XA540     | 55  |      |             | 16B  | 9     |       | P             | XCINADY | 05     | TIND8B4  | 03   | 1                | DCF   | C3                   |                    |                    | 30B              | DEV INDICATOR TO   |
| 18324         |        | XA534     | 55                              |      |        |           |     |      |             |      |       |       | J             | XCINADX | 01     | XCINADX  | 00   | 1                | DCF   | C3                   |                    |                    | 30B              | TDIND8B4 BUSS      |
| CONNECTOR     |        | XA534     | CONTINUED ON THE NEXT PAGE **** |      |        |           |     |      |             |      |       |       |               |         |        |          |      |                  |       |                      |                    |                    |                  |                    |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA534  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 410

| RECORD NUMBER | FROM      |           |                                  |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST. WIRE | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|-----------|-----------|----------------------------------|------|--------|-----------|-----|------|-------------|------|-------|-------|----------------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX    | CONNECTOR | PIN                              | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |                |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 20684         |           | XA534     | 56                               |      |        |           |     |      |             |      |       |       | M              | XCINA0X | 01     | XCINA0X  | 00   | 1      | DCF              | C4    |                     | 29B                |                    |        |
| 08108         |           | XA534     | 57                               |      |        |           |     |      |             |      |       |       |                | SPO     | 01     |          | 00   | 1      | DCF              | C6    |                     | 31A                |                    |        |
| 03360         |           | XA534     | 58                               |      |        |           |     |      |             |      |       |       |                | GND     | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 03370         |           | XA534     | 59                               |      |        |           |     |      |             |      |       |       |                | SPP     | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 08109         |           | XA534     | 60                               |      |        |           |     |      |             |      |       |       |                | SPO     | 01     |          | 00   | 1      | DCF              | C5    |                     | 31B                |                    |        |
| 08110         |           | XA534     | 61                               |      |        |           |     |      |             |      |       |       |                | SPO     | 01     |          | 00   | 1      | DCF              | D7    |                     | 33A                |                    |        |
| 01637         |           | XA534     | 62                               |      |        |           |     |      |             |      |       |       |                | DNW     | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 01638         |           | XA534     | 63                               |      |        |           |     |      |             |      |       |       |                | DNW     | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 01639         |           | XA534     | 64                               |      |        |           |     |      |             |      |       |       |                | DNW     | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 08111         |           | XA534     | 65                               |      |        |           |     |      |             |      |       |       |                | SPO     | 01     |          | 00   | 1      | DCF              | D1    |                     | 32B                |                    |        |
| 01640         |           | XA534     | 66                               |      |        |           |     |      |             |      |       |       |                | DNW     | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 03377         |           | XA534     | 67                               |      |        |           |     |      |             |      |       |       |                | GND     | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 08112         |           | XA534     | 68                               |      |        |           |     |      |             |      |       |       |                | SPO     | 01     |          | 00   | 1      | DCF              | D8    |                     | 34A                |                    |        |
| 08113         |           | XA534     | 69                               |      |        |           |     |      |             |      |       |       |                | SPO     | 01     |          | 00   | 1      | DCF              | D2    |                     | 33B                |                    |        |
| 05021         |           | XA534     | 70                               |      | XA527  | 70        |     |      | 16B         | 9    |       |       |                | SPI005  | 18     |          | 01   | 1      | DCF              | D8    |                     | 35A                |                    |        |
| 06134         |           | XA534     | 71                               |      | XA536  | 69        |     |      | 16B         | 9    |       |       |                | SPI041  | 21     |          | 01   | 1      | DCF              | D2    |                     | 34B                |                    |        |
| 06202         |           | XA534     | 72                               |      | XA536  | 61        |     |      | 16B         | 9    |       |       |                | SPI043  | 17     |          | 01   | 1      | DCF              | D1    |                     | 36A                |                    |        |
| 06006         |           | XA534     | 73                               |      | XA529  | 78        |     |      | 16B         | 9    |       |       |                | SPI037  | 24     |          | 01   | 1      | DCF              | D4    |                     | 35B                |                    |        |
| 05641         |           | XA534     | 74                               |      | XA527  | 74        |     |      | 16B         | 9    |       |       |                | SPI026  | 33     |          | 01   | 1      | DCF              | D6    |                     | 37A                |                    |        |
| 08114         |           | XA534     | 75                               |      |        |           |     |      |             |      |       |       |                | SPO     | 01     |          | 00   | 1      | DCF              | D4    |                     | 36B                |                    |        |
| 08115         |           | XA534     | 76                               |      |        |           |     |      |             |      |       |       |                | SPO     | 01     |          | 00   | 1      | DCF              | D6    |                     | 38A                |                    |        |
| 03384         |           | XA534     | 77                               |      |        |           |     |      |             |      |       |       |                | SPP     | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 08116         |           | XA534     | 78                               |      |        |           |     |      |             |      |       |       |                | SPO     | 01     |          | 00   | 1      | DCF              | D3    |                     | 37B                |                    |        |
| 03389         |           | XA534     | 79                               |      |        |           |     |      |             |      |       |       |                | SPP     | 01     |          |      |        | DCF              |       |                     | 40B                |                    |        |
| 08117         |           | XA534     | 80                               |      |        |           |     |      |             |      |       |       |                | SPO     | 01     |          | 00   | 1      | DCF              | D5    |                     | 38B                |                    |        |
| 10847         |           | XA535     | 01                               |      | XA534  | 01        |     |      | 16B         | 9    |       |       | P              | XC03ADX | 05     | TD13BB4  | 05   | 1      | DCF              | A7    |                     | 02A                | IOC INPUT DATA LIN |        |
| 18603         |           | XA535     | 01                               |      |        |           |     |      |             |      |       |       | J              | XC03ADX | 01     | XC03ADX  | 00   | 1      | DCF              | A7    |                     | 02A                | TD13BB4 BUSS       |        |
| 03235         |           | XA535     | 02                               |      |        |           |     |      |             |      |       |       |                | GND     | 01     |          |      |        | DCF              |       |                     | 01A                |                    |        |
| 20696         |           | XA535     | 03                               |      |        |           |     |      |             |      |       |       | M              | XC03A0X | 01     | XC03A0X  | 00   | 1      | DCF              | A8    |                     | 03A                |                    |        |
| 18607         |           | XA535     | 04                               |      | XA537  | 23        |     |      | 16B         | 9    |       |       |                | XC03C0X | 02     | XC03A0X  | 01   | 1      | DCF              | A8    |                     | 04A                |                    |        |
| 03244         |           | XA535     | 05                               |      |        |           |     |      |             |      |       |       |                | SPP     | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 18272         |           | XA535     | 06                               |      |        |           |     |      |             |      |       |       |                | XCCSDA  | 04     | XC00ADX  | 01   | 1      | DCF              | A1    |                     | 05A                |                    |        |
| 20662         |           | XA535     | 06                               |      |        |           |     |      |             |      |       |       | M              | XCCSDA  | 01     | XC03ADX  | 01   | 1      | DCF              | A7    |                     | 05A                |                    |        |
| 20663         |           | XA535     | 06                               |      |        |           |     |      |             |      |       |       | M              | XCCSDA  | 01     | XC01ADX  | 01   | 1      | DCF              | A3    |                     | 05A                |                    |        |
| 20664         |           | XA535     | 06                               |      |        |           |     |      |             |      |       |       | M              | XCCSDA  | 01     | XC02ADX  | 01   | 1      | DCF              | A5    |                     | 05A                |                    |        |
| 10769         |           | XA535     | 07                               |      | XA540  | 07        |     |      | 16B         | 9    |       |       | P              | XC00ADX | 08     | TD10BB4  | 05   | 1      | DCF              | A1    |                     | 02B                | IOC INPUT DATA LIN |        |
| 18564         |           | XA535     | 07                               |      |        |           |     |      |             |      |       |       | J              | XC00ADX | 01     | XC00ADX  | 00   | 1      | DCF              | A1    |                     | 02B                | TD10BB4 BUSS       |        |
| 18594         |           | XA535     | 08                               |      | XA537  | 17        |     |      | 16B         | 9    |       |       |                | XC02C0X | 02     | XC02A0X  | 01   | 1      | DCF              | A6    |                     | 06A                |                    |        |
| 20690         |           | XA535     | 09                               |      |        |           |     |      |             |      |       |       | M              | XC00A0X | 01     | XC00A0X  | 00   | 1      | DCF              | A2    |                     | 03B                |                    |        |
| 20694         |           | XA535     | 10                               |      |        |           |     |      |             |      |       |       | M              | XC02A0X | 01     | XC02A0X  | 00   | 1      | DCF              | A6    |                     | 07A                |                    |        |
| 18568         |           | XA535     | 11                               |      | XA537  | 03        |     |      | 16B         | 9    |       |       |                | XC00C0X | 02     | XC00A0X  | 01   | 1      | DCF              | A2    |                     | 04B                |                    |        |
| 00715         |           | XA535     | 12                               |      |        |           |     |      |             |      |       |       |                | +5V     | 01     |          |      |        | DCF              |       |                     | 08A                |                    |        |
| 18581         |           | XA535     | 13                               |      | XA533  | 15        |     |      | 16B         | 9    |       |       |                | XC01C0X | 02     | XC01A0X  | 01   | 1      | DCF              | A4    |                     | 05B                |                    |        |
| 10820         |           | XA535     | 14                               |      | XA534  | 14        |     |      | 16B         | 9    |       |       |                | XC02ADX | 05     | TD12BB4  | 05   | 1      | DCF              | A5    |                     | 08B                | IOC INPUT DATA LIN |        |
| 18590         |           | XA535     | 14                               |      |        |           |     |      |             |      |       |       | J              | XC02ADX | 01     | XC02ADX  | 00   | 1      | DCF              | A5    |                     | 08B                | TD12BB4 BUSS       |        |
| 20692         |           | XA535     | 15                               |      |        |           |     |      |             |      |       |       | M              | XC01A0X | 01     | XC01A0X  | 00   | 1      | DCF              | A4    |                     | 06B                |                    |        |
| 03257         |           | XA535     | 16                               |      |        |           |     |      |             |      |       |       |                | GND     | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 10793         |           | XA535     | 17                               |      | XA534  | 17        |     |      | 16B         | 9    |       |       | P              | XC01ADX | 05     | TD11BB4  | 05   | 1      | DCF              | A3    |                     | 07B                | IOC INPUT DATA LIN |        |
|               | CONNECTOR | XA535     | CONTINUED ON THE NEXT PAGE ***** |      |        |           |     |      |             |      |       |       |                |         |        |          |      |        |                  |       |                     |                    |                    |        |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA535  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 411

| RECORD NUMBER                                   | FROM   |           |     | TO  |        |           | WIRE |       |             |      | SIGNAL | SEQ NO | EQUATION | TERM | FACTOR  | CKT OR CHIP TYPE | GRV | LOAD OR POWER PLANE | TEST POINTS (AND) OR | SIGNAL DESCRIPTION | ECO NO             |        |
|---|--------|-----------|-----|-----|--------|-----------|------|-------|-------------|------|--------|--------|----------|------|---------|------------------|-----|---------------------|----------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN | PREFIX | CONNECTOR | PIN  | SH TO | MULTI GROUP | CODE |        |        |          |      |         |                  |     |                     |                      |                    |                    | COL-1R |
| 18577   |        | XA535     | 17  |     |        |           |      |       |             |      |        | J      | XC01ADX  | 01   | XC01ADX | 00               | 1   | DCF                 | A3                   | 07B                | TDI18B4 BUSS       |        |
| 01641   |        | XA535     | 18  |     |        |           |      |       |             |      |        | J      | DNW      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 03266   |        | XA535     | 19  |     |        |           |      |       |             |      |        | J      | SPP      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 01642   |        | XA535     | 20  |     |        |           |      |       |             |      |        | J      | DNW      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 03289   |        | XA535     | 21  |     |        |           |      |       |             |      |        | J      | SPP      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 01643   |        | XA535     | 22  |     |        |           |      |       |             |      |        | J      | DNW      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 10955   |        | XA535     | 23  |     | XA534  | 23        |      |       | 16B         | 9    |        | P      | XC07ADX  | 05   | TDI78B4 | 05               | 1   | DCF                 | B7                   | 10A                | IOC INPUT DATA LIN |        |
| 18655   |        | XA535     | 23  |     |        |           |      |       |             |      |        | J      | XC07ADX  | 01   | XC07ADX | 00               | 1   | DCF                 | B7                   | 10A                | TDI78B4 BUSS       |        |
| 01644   |        | XA535     | 24  |     |        |           |      |       |             |      |        | J      | DNW      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 03280   |        | XA535     | 25  |     |        |           |      |       |             |      |        | J      | SPP      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 01645   |        | XA535     | 26  |     |        |           |      |       |             |      |        | J      | DNW      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 10877   |        | XA535     | 27  |     | XA540  | 27        |      |       | 16B         | 9    |        | P      | XC04ADX  | 08   | TDI48B4 | 05               | 1   | DCF                 | B1                   | 10B                | IOC INPUT DATA LIN |        |
| 18616   |        | XA535     | 27  |     |        |           |      |       |             |      |        | J      | XC04ADX  | 01   | XC04ADX | 00               | 1   | DCF                 | B1                   | 10B                | TDI48B4 BUSS       |        |
| 00716   |        | XA535     | 28  |     |        |           |      |       |             |      |        | J      | +5V      | 01   |         |                  |     | DCF                 |                      | 21B                |                    |        |
| 20698   |        | XA535     | 29  |     |        |           |      |       |             |      |        | M      | XC04A0X  | 00   | XC04A0X | 00               | 1   | DCF                 | B2                   | 11B                |                    |        |
| 20704   |        | XA535     | 30  |     |        |           |      |       |             |      |        | M      | XC07A0X  | 01   | XC07A0X | 00               | 1   | DCF                 | B8                   | 11A                |                    |        |
| 18620   |        | XA535     | 31  |     | XA533  | 29        |      |       | 16B         | 9    |        | J      | XC04C0X  | 01   | XC04A0X | 01               | 1   | DCF                 | B2                   | 12B                |                    |        |
| 03086   |        | XA535     | 32  |     |        |           |      |       |             |      |        | J      | GND      | 02   |         |                  |     | DCF                 |                      |                    |                    |        |
| 18633   |        | XA535     | 33  |     | XA533  | 35        |      |       | 16B         | 9    |        | J      | XC05C0X  | 02   | XC05A0X | 01               | 1   | DCF                 | B4                   | 13B                |                    |        |
| 18659   |        | XA535     | 34  |     | XA537  | 47        |      |       | 16B         | 9    |        | J      | XC07C0X  | 01   | XC07A0X | 01               | 1   | DCF                 | B8                   | 12A                |                    |        |
| 20700   |        | XA535     | 35  |     |        |           |      |       |             |      |        | M      | XC05A0X  | 01   | XC05A0X | 00               | 1   | DCF                 | B4                   | 14B                |                    |        |
| 18271   |        | XA535     | 36  |     | XA535  | 06        |      |       | 16B         | 9    |        | J      | XCCSDA   | 03   | XC04ADX | 01               | 1   | DCF                 | B1                   | 13A                |                    |        |
| 20665   |        | XA535     | 36  |     |        |           |      |       |             |      |        | M      | XCCSDA   | 01   | XC05ADX | 01               | 1   | DCF                 | B3                   | 13A                |                    |        |
| 20666   |        | XA535     | 36  |     |        |           |      |       |             |      |        | M      | XCCSDA   | 01   | XC07ADX | 01               | 1   | DCF                 | B7                   | 13A                |                    |        |
| 20667   |        | XA535     | 36  |     |        |           |      |       |             |      |        | M      | XCCSDA   | 01   | XC06ADX | 01               | 1   | DCF                 | B5                   | 13A                |                    |        |
| 10901   |        | XA535     | 37  |     | XA534  | 37        |      |       | 16B         | 9    |        | P      | XC05ADX  | 05   | TDI58B4 | 05               | 1   | DCF                 | B3                   | 15B                | IOC INPUT DATA LIN |        |
| 18629   |        | XA535     | 37  |     |        |           |      |       |             |      |        | J      | XC05ADX  | 01   | XC05ADX | 00               | 1   | DCF                 | B3                   | 15B                | TDI58B4 BUSS       |        |
| 18646   |        | XA535     | 38  |     | XA533  | 40        |      |       | 16B         | 9    |        | J      | XC06C0X  | 02   | XC06A0X | 01               | 1   | DCF                 | B6                   | 14A                |                    |        |
| 03304   |        | XA535     | 39  |     |        |           |      |       |             |      |        | J      | SPP      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 20702   |        | XA535     | 40  |     |        |           |      |       |             |      |        | M      | XC06A0X  | 01   | XC06A0X | 00               | 1   | DCF                 | B6                   | 15A                |                    |        |
| 10931   |        | XA535     | 41  |     | XA540  | 41        |      |       | 16B         | 9    |        | P      | XC06ADX  | 08   | TDI68B4 | 05               | 1   | DCF                 | B5                   | 16A                | IOC INPUT DATA LIN |        |
| 18642   |        | XA535     | 41  |     |        |           |      |       |             |      |        | J      | XC06ADX  | 01   | XC06ADX | 00               | 1   | DCF                 | B5                   | 16A                | TDI68B4 BUSS       |        |
| 03316   |        | XA535     | 42  |     |        |           |      |       |             |      |        | J      | SPP      | 01   |         |                  |     | DCF                 |                      | 20B                |                    |        |
| 08118   |        | XA535     | 43  |     |        |           |      |       |             |      |        | J      | SPO      | 01   |         | 00               | 1   | DCF                 | C7                   | 25A                |                    |        |
| 03336   |        | XA535     | 44  |     |        |           |      |       |             |      |        | J      | GND      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 03327   |        | XA535     | 45  |     |        |           |      |       |             |      |        | J      | SPP      | 01   |         |                  |     | DCF                 |                      | 27A                |                    |        |
| 15381   |        | XA535     | 46  |     |        |           |      |       |             |      |        | P      | XCREADX  | 03   | TRQ48B4 | 01               | 1   | DCF                 | C1                   | 25B                | IOE REQ TO IOC     |        |
| 18360   |        | XA535     | 46  |     |        |           |      |       |             |      |        | J      | XCREADX  | 01   | XCREADX | 00               | 1   | DCF                 | C1                   | 25B                | TRQ48B4 BUSS       |        |
| 20685   |        | XA535     | 47  |     |        |           |      |       |             |      |        | M      | XCREA0X  | 01   | XCREA0X | 00               | 1   | DCF                 | C2                   | 26B                |                    |        |
| 08119   |        | XA535     | 48  |     |        |           |      |       |             |      |        | J      | SPO      | 01   |         | 00               | 1   | DCF                 | C8                   | 26A                |                    |        |
| 18362   |        | XA535     | 49  |     |        |           |      |       |             |      |        | J      | XCRECO   | 02   | XCREA0X | 01               | 1   | DCF                 | C2                   | 27B                |                    |        |
| 05998   |        | XA535     | 50  |     | XA541  | 50        |      |       | 16B         | 9    |        | J      | SP1037   | 16   |         | 01               | 1   | DCF                 | C8                   | 28A                |                    |        |
| 06206   |        | XA535     | 51  |     | XA534  | 54        |      |       | 16B         | 9    |        | J      | SPI043   | 21   |         | 01               | 1   | DCF                 | C4                   | 28B                |                    |        |
| 18310   |        | XA535     | 52  |     | XA538  | 19        |      |       | 16B         | 9    |        | J      | XCGNDA   | 06   | XCREADX | 01               | 1   | DCF                 | C1                   | 29A                |                    |        |
| 03350   |        | XA535     | 53  |     |        |           |      |       |             |      |        | J      | SPP      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| 06142   |        | XA535     | 54  |     | XA534  | 50        |      |       | 16B         | 9    |        | J      | SP1041   | 29   |         | 01               | 1   | DCF                 | C6                   | 30A                |                    |        |
| 08120   |        | XA535     | 55  |     |        |           |      |       |             |      |        | J      | SPO      | 01   |         | 00               | 1   | DCF                 | C3                   | 30B                |                    |        |
| 08121   |        | XA535     | 56  |     |        |           |      |       |             |      |        | J      | SPO      | 01   |         | 00               | 1   | DCF                 | C4                   | 29B                |                    |        |
| 08122   |        | XA535     | 57  |     |        |           |      |       |             |      |        | J      | SPO      | 01   |         | 00               | 1   | DCF                 | C6                   | 31A                |                    |        |
| 03359   |        | XA535     | 58  |     |        |           |      |       |             |      |        | J      | GND      | 01   |         |                  |     | DCF                 |                      |                    |                    |        |
| CONNECTOR XA535 CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |      |       |             |      |        |        |          |      |         |                  |     |                     |                      |                    |                    |        |

TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA535  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 412

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SFC INST. MISC | SIGNAL   | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|----------------|----------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |                |          |        |          |      |      |                  |       |                     |                    |                    |         |
| 18304   |        | XA535     | 59  |        |           |     |             |      |       |       |                | XCENDB4R | 02     |          |      |      | DCF              |       |                     |                    |                    |         |
| 08123   |        | XA535     | 60  |        |           |     |             |      |       |       |                | SPO      | 01     |          | 00   | 1    | DCF              | C5    |                     | 31B                |                    |         |
| 18297   |        | XA535     | 61  |        |           |     |             |      |       |       | J              | XCENCDCX | 01     | XCENCDCX | 00   | 1    | DCF              | D7    |                     | 33A                | XCENDB4 BUSS       |         |
| 18300   |        | XA535     | 61  |        | XA532     | 71  |             | 16B  | 9     |       | P              | XCENCDCX | 01     | XCENDB4  | 01   | 1    | DCF              | D7    |                     | 33A                | DEV ENABLE LINE    |         |
| 01646   |        | XA535     | 62  |        |           |     |             |      |       |       |                | DNW      | 01     |          |      |      | DCF              |       |                     |                    |                    |         |
| 01647   |        | XA535     | 63  |        |           |     |             |      |       |       |                | DNW      | 01     |          |      |      | DCF              |       |                     |                    |                    |         |
| 01648   |        | XA535     | 64  |        |           |     |             |      |       |       |                | DNW      | 01     |          |      |      | DCF              |       |                     |                    |                    |         |
| 18529   |        | XA535     | 65  |        |           |     |             |      |       |       | J              | XCR7CDX  | 01     | XCR7CDX  | 00   | 1    | DCF              | D1    |                     | 32B                | XCR7DB4 BUSS       |         |
| 18534   |        | XA535     | 65  |        | XA532     | 76  |             | 16B  | 9     |       | P              | XCR7CDX  | 01     | XCR7DB4  | 01   | 1    | DCF              | D1    |                     | 32B                |                    |         |
| 01649   |        | XA535     | 66  |        |           |     |             |      |       |       |                | DNW      | 01     |          |      |      | DCF              |       |                     |                    |                    |         |
| 18538   |        | XA535     | 67  |        |           |     |             |      |       |       |                | XC7DB4R  | 02     |          |      |      | DCF              |       |                     |                    |                    |         |
| 21311   |        | XA535     | 67  |        |           |     |             |      |       |       |                | GND      | 01     |          |      |      | DCF              |       |                     |                    |                    |         |
| 20683   |        | XA535     | 68  |        |           |     |             |      |       |       | M              | XCENCDCX | 01     | XCENCDCX | 00   | 1    | DCF              | D8    |                     | 34A                |                    |         |
| 18530   |        | XA535     | 69  |        | XA538     | 47  |             | 16B  | 9     |       |                | XCR7COX  | 01     | XCR7COX  | 00   | 1    | DCF              | D2    |                     | 33B                | DEV REQ REC. 7     |         |
| 18292   |        | XA535     | 70  |        | XA537     | 63  |             | 16B  | 9     |       |                | XCENAO   | 01     | XCENCDCX | 01   | 1    | DCF              | D8    |                     | 35A                |                    |         |
| 18306   |        | XA535     | 71  |        | XA533     | 51  |             | 16B  | 9     |       |                | XCGNDA   | 02     | XCR7COX  | 01   | 1    | DCF              | D2    |                     | 34B                |                    |         |
| 18547   |        | XA535     | 72  |        | XA537     | 60  |             | 16B  | 9     |       |                | XCSTBA   | 01     | XCR7CDX  | 01   | 1    | DCF              | D1    |                     | 36A                |                    |         |
| 20686   |        | XA535     | 72  |        |           |     |             |      |       |       | M              | XCSTBA   | 01     | XCCMDCX  | 01   | 1    | DCF              | D5    |                     | 36A                |                    |         |
| 20687   |        | XA535     | 72  |        |           |     |             |      |       |       | M              | XCSTBA   | 01     | XCINCDX  | 01   | 1    | DCF              | D3    |                     | 36A                |                    |         |
| 20688   |        | XA535     | 72  |        |           |     |             |      |       |       | M              | XCSTBA   | 01     | XCENCDCX | 01   | 1    | DCF              | D7    |                     | 36A                |                    |         |
| 18305   |        | XA535     | 73  |        | XA535     | 71  |             | 16B  | 9     |       |                | XCGNDA   | 01     | XCINCOX  | 01   | 1    | DCF              | D4    |                     | 35B                |                    |         |
| 18254   |        | XA535     | 74  |        | XA537     | 75  |             | 16B  | 9     |       |                | XCCMAO   | 01     | XCCMCOX  | 01   | 1    | DCF              | D6    |                     | 37A                |                    |         |
| 18326   |        | XA535     | 75  |        | XA534     | 51  |             | 16B  | 9     |       |                | XCINCOX  | 01     | XCINCOX  | 00   | 1    | DCF              | D4    |                     | 36B                | DEV INDICATOR REC. |         |
| 20660   |        | XA535     | 76  |        |           |     |             |      |       |       | M              | XCCMCOX  | 01     | XCCMCOX  | 00   | 1    | DCF              | D6    |                     | 38A                |                    |         |
| 18334   |        | XA535     | 77  |        |           |     |             |      |       |       |                | XCINDB4R | 02     |          |      |      | DCF              |       |                     |                    |                    |         |
| 18325   |        | XA535     | 78  |        |           |     |             |      |       |       | J              | XCINCDX  | 01     | XCINCDX  | 00   | 1    | DCF              | D3    |                     | 37B                | XCINDB4 BUSS       |         |
| 18330   |        | XA535     | 78  |        | XA532     | 75  |             | 16B  | 9     |       | P              | XCINCDX  | 01     | XCINDB4  | 01   | 1    | DCF              | D3    |                     | 37B                |                    |         |
| 18263   |        | XA535     | 79  |        |           |     |             |      |       |       |                | XCCMDB4R | 02     |          |      |      | DCF              |       |                     | 40B                |                    |         |
| 18256   |        | XA535     | 80  |        |           |     |             |      |       |       | J              | XCCMDCX  | 01     | XCCMDCX  | 00   | 1    | DCF              | D5    |                     | 38B                | XCCMDB4 BUSS       |         |
| 18259   |        | XA535     | 80  |        | XA532     | 73  |             | 16B  | 9     |       | P              | XCCMDCX  | 01     | XCCMDB4  | 01   | 1    | DCF              | D5    |                     | 38B                | DEV COMMAND LINE   |         |
| 18416   |        | XA536     | 01  |        | XA537     | 01  |             | 16B  | 9     |       |                | XCR10S   | 02     | XCR10R   | 01   | 1    | TT3              | A2    |                     | 02B                |                    |         |
| 03087   |        | XA536     | 02  |        |           |     |             |      |       |       |                | GND      | 01     |          |      |      | TT3              |       |                     | 01B                |                    |         |
| 18409   |        | XA536     | 03  |        | XA537     | 15  |             | 16B  | 9     |       |                | XCR1RA   | 01     | XCR10R   | 01   | 2    | TT3              | A2    |                     | 02A                |                    |         |
| 18392   |        | XA536     | 04  |        |           |     |             |      |       |       |                | XCR00R   | 02     | XCR00R   | 00   | 1    | TT3              | A1    |                     | 04A                |                    |         |
| 18345   |        | XA536     | 05  |        | XA536     | 10  |             | 16B  | 9     |       |                | XCMRCA   | 01     | XCR10R   | 01   | 3    | TT3              | A2    |                     | 03B                |                    |         |
| 18394   |        | XA536     | 06  |        | XA537     | 06  |             | 16B  | 9     |       |                | XCR00S   | 02     | XCR00R   | 01   | 1    | TT3              | A1    |                     | 05A                |                    |         |
| 18414   |        | XA536     | 07  |        |           |     |             |      |       |       |                | XCR10R   | 02     | XCR10R   | 00   | 1    | TT3              | A2    |                     | 03A                |                    |         |
| 18387   |        | XA536     | 08  |        | XA537     | 09  |             | 16B  | 9     |       |                | XCR0RA   | 01     | XCR00R   | 01   | 2    | TT3              | A1    |                     | 06A                |                    |         |
| 18390   |        | XA536     | 09  |        |           |     |             |      |       |       |                | XCR00A   | 02     | XCRE10   | 01   | 1    | TT3              | A3    |                     | 04B                |                    |         |
| 18346   |        | XA536     | 10  |        | XA536     | 18  |             | 16B  | 9     |       |                | XCMRCA   | 02     | XCR00R   | 01   | 3    | TT3              | A1    |                     | 07A                |                    |         |
| 18412   |        | XA536     | 11  |        |           |     |             |      |       |       |                | XCR10A   | 02     | XCRE10   | 01   | 2    | TT3              | A3    |                     | 05B                |                    |         |
| 00717   |        | XA536     | 12  |        |           |     |             |      |       |       |                | +5V      | 01     |          |      |      | TT3              |       |                     |                    |                    |         |
| 18434   |        | XA536     | 13  |        |           |     |             |      |       |       |                | XCR20A   | 02     | XCRE10   | 01   | 3    | TT3              | A3    |                     | 06B                |                    |         |
| 18460   |        | XA536     | 14  |        | XA537     | 14  |             | 16B  | 9     |       |                | XCR30S   | 02     | XCR30R   | 01   | 1    | TT3              | B2    |                     | 09A                |                    |         |
| 18365   |        | XA536     | 15  |        | XA538     | 27  |             | 16B  | 9     |       |                | XCRE10   | 01     | XCRE10   | 00   | 1    | TT3              | A3    |                     | 07B                | DEV REQ 0+1+2      |         |
| 03088   |        | XA536     | 16  |        |           |     |             |      |       |       |                | GND      | 01     |          |      |      | TT3              |       |                     | 21B                |                    |         |
| 18453   |        | XA536     | 17  |        | XA537     | 27  |             | 16B  | 9     |       |                | XCR3RA   | 01     | XCR30R   | 01   | 2    | TT3              | B2    |                     | 08B                |                    |         |
| 18347   |        | XA536     | 18  |        | XA536     | 26  |             | 16B  | 9     |       |                | XCMRCA   | 03     | XCR30R   | 01   | 3    | TT3              | B2    |                     | 10A                |                    |         |
| CONNECTOR (XA536) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |                |          |        |          |      |      |                  |       |                     |                    |                    |         |



TM 11-5895-856-34-20/EE640-CA-MMI-200/E154 CPU/TO 31W2-2T-122-20

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA536  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 413

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE |       |      | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OF CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCHOR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|------|-------|------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | SH C | GROUP | CODE |        |        |          |        |        |                  |       |                     |                    |                    |        |
| 18458         |        | XA536     | 19                              |        |           |     |      |       |      |        | XCR30R | 02       | XCR30R | 03     | 1                | TT3   | B2                  | 09B                |                    |        |
| 18436         |        | XA536     | 20                              |        |           |     |      |       |      |        | XCR20R | 02       | XCR20R | 03     | 1                | TT3   | B1                  | 11A                |                    |        |
| 18456         |        | XA536     | 21                              |        |           |     |      |       |      |        | XCR30A | 02       | XCRE20 | 01     | 1                | TT3   | B3                  | 10B                |                    |        |
| 18438         |        | XA536     | 22                              |        | XA537     | 22  |      |       | 16B  | 9      | XCR20S | 02       | XCR20R | 01     | 1                | TT3   | B1                  | 12A                |                    |        |
| 18478         |        | XA536     | 23                              |        |           |     |      |       |      |        | XCR40A | 02       | XCRE20 | 01     | 2                | TT3   | B3                  | 11B                |                    |        |
| 18431         |        | XA536     | 24                              |        | XA537     | 21  |      |       | 16B  | 9      | XCR2RA | 01       | XCR20R | 01     | 2                | TT3   | B1                  | 13A                |                    |        |
| 18500         |        | XA536     | 25                              |        |           |     |      |       |      |        | XCR50A | 02       | XCRE20 | 01     | 3                | TT3   | B3                  | 12B                |                    |        |
| 18548         |        | XA536     | 26                              |        | XA536     | 34  |      |       | 16B  | 9      | XCMRCA | 04       | XCR20R | 01     | 3                | TT3   | B1                  | 14A                |                    |        |
| 18369         |        | XA536     | 27                              |        | XA538     | 33  |      |       | 16B  | 9      | XCRE20 | 01       | XCRE20 | 00     | 1                | TT3   | B3                  | 13B                | DEV REQ 3+4+5      |        |
| 00718         |        | XA536     | 28                              |        |           |     |      |       |      |        | +5V    | 01       |        |        |                  | TT3   |                     |                    |                    |        |
| 18505         |        | XA536     | 29                              |        | XA534     | 33  |      |       | 16B  | 9      | XCR50S | 03       | XCR50R | 01     | 1                | TT3   | C2                  | 14B                |                    |        |
| 18497         |        | XA536     | 30                              |        | XA537     | 39  |      |       | 16B  | 9      | XCR5RA | 01       | XCR50R | 01     | 2                | TT3   | C2                  | 15A                |                    |        |
| 18502         |        | XA536     | 31                              |        |           |     |      |       |      |        | XCR50R | 02       | XCR50R | 00     | 1                | TT3   | C2                  | 15B                |                    |        |
| 03089         |        | XA536     | 32                              |        |           |     |      |       |      |        | GND    | 01       |        |        |                  | TT3   |                     | 27A                |                    |        |
| 18364         |        | XA536     | 33                              |        |           |     |      |       |      |        | XCRE1A | 02       | XCRECO | 01     | 1                | TT3   | C3                  | 16B                |                    |        |
| 18349         |        | XA536     | 34                              |        | XA536     | 42  |      |       | 16B  | 9      | XCMRCA | 05       | XCR50R | 01     | 3                | TT3   | C2                  | 16A                |                    |        |
| 18367         |        | XA536     | 35                              |        | XA538     | 31  |      |       | 16B  | 9      | XCRE2A | 01       | XCRECO | 01     | 2                | TT3   | C3                  | 17B                |                    |        |
| 18480         |        | XA536     | 36                              |        |           |     |      |       |      |        | XCR40R | 02       | XCR40R | 00     | 1                | TT3   | C1                  | 17A                |                    |        |
| 18371         |        | XA536     | 37                              |        | XA538     | 42  |      |       | 16B  | 9      | XCRE3A | 01       | XCRECO | 01     | 3                | TT3   | C3                  | 18B                |                    |        |
| 18482         |        | XA536     | 38                              |        | XA537     | 38  |      |       | 16B  | 9      | XCR40S | 02       | XCR40R | 01     | 1                | TT3   | C1                  | 18A                |                    |        |
| 18361         |        | XA536     | 39                              |        | XA535     | 49  |      |       | 16B  | 9      | XCRECO | 01       | XCRECO | 03     | 1                | TT3   | C3                  | 19B                | DEV GR D REQ       |        |
| 18475         |        | XA536     | 40                              |        | XA537     | 33  |      |       | 16B  | 9      | XCR4RA | 01       | XCR40R | 01     | 2                | TT3   | C1                  | 19A                |                    |        |
| 18545         |        | XA536     | 41                              |        | XA534     | 34  |      |       | 16B  | 9      | XCR70S | 02       | XCR70R | 01     | 1                | TT3   | D2                  | 22B                |                    |        |
| 18350         |        | XA536     | 42                              |        | XA536     | 48  |      |       | 16B  | 9      | XCMRCA | 06       | XCR40R | 01     | 3                | TT3   | C1                  | 20A                |                    |        |
| 18541         |        | XA536     | 43                              |        | XA537     | 50  |      |       | 16B  | 9      | XCR70R | 01       | XCR70R | 00     | 1                | TT3   | D2                  | 23B                |                    |        |
| 03090         |        | XA536     | 44                              |        |           |     |      |       |      |        | GND    | 01       |        |        |                  | TT3   |                     | 40A                |                    |        |
| 18323         |        | XA536     | 45                              |        |           |     |      |       |      |        | XCICSO | 06       | XCCSDA | 01     | 1                | TT3   | D3                  | 24B                |                    |        |
| 18540         |        | XA536     | 46                              |        |           |     |      |       |      |        | XCR7RA | 02       | XCR70R | 01     | 2                | TT3   | D2                  | 21A                |                    |        |
| 18317         |        | XA536     | 47                              |        |           |     |      |       |      |        | XCICRO | 06       | XCCSDA | 01     | 2                | TT3   | D3                  | 25B                |                    |        |
| 18351         |        | XA536     | 48                              |        | XA536     | 56  |      |       | 16B  | 9      | XCMRCA | 07       | XCR70R | 01     | 3                | TT3   | D2                  | 22A                |                    |        |
| 18335         |        | XA536     | 49                              |        | XA537     | 57  |      |       | 16B  | 9      | XCINTA | 01       | XCCSDA | 01     | 3                | TT3   | D3                  | 26B                |                    |        |
| 18523         |        | XA536     | 50                              |        |           |     |      |       |      |        | XCR60R | 03       | XCR60R | 00     | 1                | TT3   | D1                  | 23A                |                    |        |
| 18270         |        | XA536     | 51                              |        | XA535     | 36  |      |       | 16B  | 9      | XCCSDA | 02       | XCCSDA | 00     | 1                | TT3   | D3                  | 27B                | CH.SEL.INTER*      |        |
| 18525         |        | XA536     | 52                              |        | XA537     | 52  |      |       | 16B  | 9      | XCR60S | 02       | XCR60R | 01     | 1                | TT3   | D1                  | 24A                |                    |        |
| 18322         |        | XA536     | 53                              |        | XA536     | 45  |      |       | 16B  | 9      | XCICSO | 05       | XCCSEA | 00     | 1                | TT3   | E2                  | 28B                |                    |        |
| 18519         |        | XA536     | 54                              |        | XA537     | 45  |      |       | 16B  | 9      | XCR6RA | 01       | XCR60R | 01     | 2                | TT3   | D1                  | 25A                |                    |        |
| 18275         |        | XA536     | 55                              |        |           |     |      |       |      |        | XCCSEA | 03       | XCCSEA | 00     | 1                | TT3   | E2                  | 29B                | CH.SEL.ENABLE      |        |
| 18352         |        | XA536     | 56                              |        | XA537     | 72  |      |       | 16B  | 9      | XCMRCA | 08       | XCR60R | 01     | 3                | TT3   | D1                  | 26A                |                    |        |
| 18295         |        | XA536     | 57                              |        | XA538     | 57  |      |       | 16B  | 9      | XCNB0  | 02       | XCMRDA | 01     | 1                | TT3   | E3                  | 30B                |                    |        |
| 03091         |        | XA536     | 58                              |        |           |     |      |       |      |        | GND    | 01       |        |        |                  | TT3   |                     | 40B                |                    |        |
| 18265         |        | XA536     | 59                              |        | XA538     | 68  |      |       | 16B  | 9      | XCCMDO | 02       | XCMRDA | 01     | 2                | TT3   | E3                  | 31B                |                    |        |
| 18315         |        | XA536     | 60                              |        | XA538     | 63  |      |       | 16B  | 9      | XCICRO | 04       | XCCSEA | 01     | 2                | TT3   | E2                  | 28A                |                    |        |
| 06203         |        | XA536     | 61                              |        | XA537     | 62  |      |       | 16B  | 9      | SP1043 | 18       | XCMRDA | 01     | 3                | TT3   | E3                  | 32B                |                    |        |
| 18294         |        | XA536     | 62                              |        | XA536     | 57  |      |       | 16B  | 9      | XCNB0  | 01       | XCCSEA | 01     | 3                | TT3   | E2                  | 29A                |                    |        |
| 18355         |        | XA536     | 63                              |        | XA537     | 61  |      |       | 16B  | 9      | XCMRDA | 02       | XCMRDA | 00     | 1                | TT3   | E3                  | 33B                | DEV RESET          |        |
| 18288         |        | XA536     | 64                              |        | XA533     | 52  |      |       | 16B  | 9      | XCCSSA | 01       | XCCSSA | 03     | 1                | TT3   | E1                  | 30A                | CH.SEL.STROBE      |        |
| 18320         |        | XA536     | 65                              |        | XA536     | 75  |      |       | 16B  | 9      | XCICSO | 03       | XCCSSA | 01     | 1                | TT3   | F2                  | 34B                |                    |        |
| 18319         |        | XA536     | 66                              |        | XA536     | 65  |      |       | 16B  | 9      | XCICSO | 02       | XCCSSA | 01     | 1                | TT3   | E1                  | 31A                |                    |        |
| 03092         |        | XA536     | 67                              |        |           |     |      |       |      |        | GND    | 01       |        |        |                  | TT3   |                     |                    |                    |        |
| 18314         |        | XA536     | 68                              |        | XA536     | 60  |      |       | 16B  | 9      | XCICRO | 03       | XCCSSA | 01     | 2                | TT3   | E1                  | 32A                |                    |        |
| CONNECTOR     |        | XA536     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |       |      |        |        |          |        |        |                  |       |                     |                    |                    |        |

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DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA536  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 414

| RECORD NUMBER                                   | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | INT'L | PREFIX | CONNECTOR | PIN | INT'L | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 06135   | XA536  | 69        |     | XA537 | 65     |           |     |       |             | 16B  | 9     |       | SPI041  | 22     |          |      | C1     | 1                | TT3   | F3                  | 35A                |                    |        |
| 18550   | XA536  | 70        |     | XA537 | 64     |           |     |       |             | 16B  | 9     |       | XCST60  | 02     | XCCSSA   | 01   | 3      | TT3              | E1    |                     | 33A                |                    |        |
| 18313   | XA536  | 71        |     | XA536 | 68     |           |     |       |             | 16B  | 9     |       | XCICR0  | 02     | XCCSIA   | 01   | 2      | TT3              | F2    |                     | 36A                |                    |        |
| 18339   | XA536  | 72        |     |       |        |           |     |       |             |      |       |       | XCINT0  | 03     | XCCSIA   | 01   | 3      | TT3              | F2    |                     | 34A                |                    |        |
| 18268   | XA536  | 73        |     |       |        |           |     |       |             |      |       |       | XCCSCA  | 02     | XCCSCA   | 00   | 1      | TT3              | F1    |                     | 36B                | CH.SEL.COMMAND     |        |
| 18287   | XA536  | 74        |     |       |        |           |     |       |             |      |       |       | XCCSIA  | 03     | XCCSIA   | 00   | 1      | TT3              | F2    |                     | 35B                | CH.SEL.INTER       |        |
| 18321   | XA536  | 75        |     | XA536 | 53     |           |     |       |             | 16B  | 9     |       | XCIC50  | 04     | XCCSCA   | 01   | 1      | TT3              | F1    |                     | 37B                |                    |        |
| 06201   | XA536  | 76        |     | XA534 | 72     |           |     |       |             | 16B  | 9     |       | SPI043  | 16     |          | 01   | 2      | TT3              | F3    |                     | 37A                |                    |        |
| 18312   | XA536  | 77        |     | XA536 | 71     |           |     |       |             | 16B  | 9     |       | XCICR0  | 01     | XCCSCA   | 01   | 2      | TT3              | F1    |                     | 38B                |                    |        |
| 06005   | XA536  | 78        |     | XA534 | 73     |           |     |       |             | 16B  | 9     |       | SPI037  | 23     |          | 01   | 3      | TT3              | F3    |                     | 38A                |                    |        |
| 18264   | XA536  | 79        |     | XA536 | 59     |           |     |       |             | 16B  | 9     |       | XCCM00  | 01     | XCCSCA   | 01   | 3      | TT3              | F1    |                     | 39B                |                    |        |
| 08124   | XA536  | 80        |     |       |        |           |     |       |             |      |       |       | SPO     | 01     |          | 00   | 1      | TT3              | F3    |                     | 39A                |                    |        |
| 18417   | XA537  | 01        |     | XA538 | 05     |           |     |       |             | 16B  | 9     |       | XCR10S  | 03     | XCR10S   | 00   | 1      | TQ2              | A2    |                     | 02B                | DEV REQ 1          |        |
| 03093   | XA537  | 02        |     |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 01A                |                    |        |
| 18569   | XA537  | 03        |     |       |        |           |     |       |             |      |       |       | XC00COX | 03     | XCR0RA   | 01   | 1      | TQ2              | A3    |                     | 02A                |                    |        |
| 18397   | XA537  | 04        |     | XA538 | 08     |           |     |       |             | 16B  | 9     |       | XCR1CA  | 01     | XCR10S   | 01   | 1      | TQ2              | A2    |                     | 04A                |                    |        |
| 18413   | XA537  | 05        |     | XA536 | 07     |           |     |       |             | 16B  | 9     |       | XCR1JR  | 01     | XCR10S   | 01   | 2      | TQ2              | A2    |                     | 03B                |                    |        |
| 18395   | XA537  | 06        |     | XA538 | 04     |           |     |       |             | 16B  | 9     |       | XCR00S  | 03     | XCR00S   | 00   | 1      | TQ2              | A1    |                     | 05A                | DEV REQ 0          |        |
| 18276   | XA537  | 07        |     | XA537 | 13     |           |     |       |             | 16B  | 9     |       | XCCSE0  | 01     | XCR0RA   | 01   | 2      | TQ2              | A3    |                     | 03A                |                    |        |
| 18375   | XA537  | 08        |     | XA538 | 13     |           |     |       |             | 16B  | 9     |       | XCR0CA  | 01     | XCR00S   | 01   | 1      | TQ2              | A1    |                     | 06A                |                    |        |
| 18388   | XA537  | 09        |     |       |        |           |     |       |             |      |       |       | XCR0RA  | 02     | XCR0RA   | 00   | 1      | TQ2              | A3    |                     | 04B                |                    |        |
| 18391   | XA537  | 10        |     | XA536 | 04     |           |     |       |             | 16B  | 9     |       | XCR00R  | 01     | XCR00S   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 18580   | XA537  | 11        |     | XA535 | 13     |           |     |       |             | 16B  | 9     |       | XCR00R  | 01     | XCR00S   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 00719   | XA537  | 12        |     |       |        |           |     |       |             |      |       |       | XCR00R  | 01     | XCR00S   | 01   | 2      | TQ2              | A1    |                     | 07A                |                    |        |
| 18277   | XA537  | 13        |     | XA537 | 19     |           |     |       |             | 16B  | 9     |       | XCCSE0  | 02     | XCR1RA   | 01   | 2      | TQ2              | A4    |                     | 06B                |                    |        |
| 18461   | XA537  | 14        |     | XA538 | 17     |           |     |       |             | 16B  | 9     |       | XCR30S  | 03     | XCR30S   | 00   | 1      | TQ2              | B2    |                     | 09A                | DEV REQ 3          |        |
| 18410   | XA537  | 15        |     |       |        |           |     |       |             |      |       |       | XCR1RA  | 02     | XCR1RA   | 00   | 1      | TQ2              | A4    |                     | 07B                |                    |        |
| 03094   | XA537  | 16        |     |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 01B                |                    |        |
| 18595   | XA537  | 17        |     |       |        |           |     |       |             |      |       |       | XCR2CA  | 03     | XCR2RA   | 01   | 1      | TQ2              | B3    |                     | 08B                |                    |        |
| 18441   | XA537  | 18        |     | XA538 | 25     |           |     |       |             | 16B  | 9     |       | XCR3CA  | 01     | XCR30S   | 01   | 1      | TQ2              | B2    |                     | 10A                |                    |        |
| 18278   | XA537  | 19        |     | XA537 | 25     |           |     |       |             | 16B  | 9     |       | XCCSE0  | 03     | XCR2RA   | 01   | 2      | TQ2              | B3    |                     | 09B                |                    |        |
| 18457   | XA537  | 20        |     | XA536 | 19     |           |     |       |             | 16B  | 9     |       | XCR30R  | 01     | XCR30S   | 01   | 2      | TQ2              | B2    |                     | 11A                |                    |        |
| 18432   | XA537  | 21        |     |       |        |           |     |       |             |      |       |       | XCR2RA  | 02     | XCR2RA   | 00   | 1      | TQ2              | B3    |                     | 10B                |                    |        |
| 18439   | XA537  | 22        |     | XA538 | 20     |           |     |       |             | 16B  | 9     |       | XCR20S  | 03     | XCR20S   | 00   | 1      | TQ2              | B1    |                     | 12A                | DEV REQ 2          |        |
| 18608   | XA537  | 23        |     |       |        |           |     |       |             |      |       |       | XCR3CA  | 03     | XCR3RA   | 01   | 1      | TQ2              | B4    |                     | 11B                |                    |        |
| 18419   | XA537  | 24        |     | XA538 | 24     |           |     |       |             | 16B  | 9     |       | XCR2CA  | 01     | XCR20S   | 01   | 1      | TQ2              | B1    |                     | 13A                |                    |        |
| 18279   | XA537  | 25        |     | XA537 | 31     |           |     |       |             | 16B  | 9     |       | XCCSE0  | 04     | XCR3RA   | 01   | 2      | TQ2              | B4    |                     | 12B                |                    |        |
| 18435   | XA537  | 26        |     | XA536 | 20     |           |     |       |             | 16B  | 9     |       | XCR20R  | 01     | XCR20S   | 01   | 2      | TQ2              | B1    |                     | 14A                |                    |        |
| 18454   | XA537  | 27        |     |       |        |           |     |       |             |      |       |       | XCR3RA  | 02     | XCR3RA   | 00   | 1      | TQ2              | B4    |                     | 13B                |                    |        |
| 00720   | XA537  | 28        |     |       |        |           |     |       |             |      |       |       | +5V     | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 18619   | XA537  | 29        |     | XA535 | 31     |           |     |       |             | 16B  | 9     |       | XCR4CA  | 01     | XCR4RA   | 01   | 1      | TQ2              | C3    |                     | 14B                |                    |        |
| 18504   | XA537  | 30        |     | XA536 | 29     |           |     |       |             | 16B  | 9     |       | XCR50S  | 02     | XCR50S   | 00   | 1      | TQ2              | C2    |                     | 15A                | DEV REQ 5          |        |
| 18280   | XA537  | 31        |     | XA537 | 37     |           |     |       |             | 16B  | 9     |       | XCCSE0  | 05     | XCR4RA   | 01   | 2      | TQ2              | C3    |                     | 15B                |                    |        |
| 03095   | XA537  | 32        |     |       |        |           |     |       |             |      |       |       | GND     | 01     |          |      |        |                  |       |                     | 20B                |                    |        |
| 18476   | XA537  | 33        |     |       |        |           |     |       |             |      |       |       | XCR4RA  | 02     | XCR4RA   | 00   | 1      | TQ2              | C3    |                     | 16B                |                    |        |
| 18485   | XA537  | 34        |     | XA538 | 37     |           |     |       |             | 16B  | 9     |       | XCR5CA  | 01     | XCR50S   | 01   | 1      | TQ2              | C2    |                     | 16A                |                    |        |
| 18632   | XA537  | 35        |     | XA535 | 33     |           |     |       |             | 16B  | 9     |       | XCR50R  | 01     | XCR5RA   | 01   | 1      | TQ2              | C4    |                     | 17B                |                    |        |
| 18501   | XA537  | 36        |     | XA536 | 31     |           |     |       |             | 16B  | 9     |       | XCR50R  | 01     | XCR50S   | 01   | 2      | TQ2              | C2    |                     | 17A                |                    |        |
| CONNECTOR XA537 CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA537  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 415

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |        | SIGNAL | SFD NO  | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | QUANT | LOAD OF POWER PLANE | TEST POINTS (AND) OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|--------|--------|---------|----------|--------|--------|------------------|-------|---------------------|----------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COL IN |        |         |          |        |        |                  |       |                     |                      |                    |        |
| 18281   |        | XA537     | 37  |        | XA537     | 43  |             |      | 16B    | 9      | XCCSE0  | 06       | XCR5RA | 01     | 2                | TQ2   | C4                  | 18B                  |                    |        |
| 18483   |        | XA537     | 38  |        | XA538     | 36  |             |      | 16B    | 9      | XCR40S  | 03       | XCR40S | 00     | 1                | TQ2   | C1                  | 18A                  | DEV REQ 4          |        |
| 18498   |        | XA537     | 39  |        |           |     |             |      |        |        | XCR5RA  | 02       | XCR5RA | 00     | 1                | TQ2   | C4                  | 19B                  |                    |        |
| 18463   |        | XA537     | 40  |        | XA538     | 40  |             |      | 16B    | 9      | XCR4CA  | 01       | XCR40S | 01     | 1                | TQ2   | C1                  | 19A                  |                    |        |
| 18645   |        | XA537     | 41  |        | XA535     | 38  |             |      | 16B    | 9      | XC06COX | 01       | XCR6RA | 01     | 1                | TQ2   | D3                  | 22B                  |                    |        |
| 18479   |        | XA537     | 42  |        | XA536     | 36  |             |      | 16B    | 9      | XCR40R  | 01       | XCR40S | 01     | 2                | TQ2   | C1                  | 20A                  |                    |        |
| 18282   |        | XA537     | 43  |        | XA537     | 49  |             |      | 16B    | 9      | XCCSE0  | 07       | XCR6RA | 01     | 2                | TQ2   | D3                  | 23B                  |                    |        |
| 03096   |        | XA537     | 44  |        |           |     |             |      |        |        | GND     | 01       |        |        |                  | TQ2   |                     | 21B                  |                    |        |
| 18520   |        | XA537     | 45  |        |           |     |             |      |        |        | XCR6RA  | 02       | XCR6RA | 00     | 1                | TQ2   | D3                  | 24B                  |                    |        |
| 18544   |        | XA537     | 46  |        | XA536     | 41  |             |      | 16B    | 9      | XCR70S  | 01       | XCR70S | 00     | 1                | TQ2   | D2                  | 21A                  | DEV REQ 7          |        |
| 18660   |        | XA537     | 47  |        |           |     |             |      |        |        | XC07COX | 03       | XCR7RA | 01     | 1                | TQ2   | D4                  | 25B                  |                    |        |
| 18528   |        | XA537     | 48  |        |           |     |             |      |        |        | XCR7CA  | 02       | XCR70S | 01     | 1                | TQ2   | D2                  | 22A                  |                    |        |
| 18283   |        | XA537     | 49  |        | XA538     | 48  |             |      | 16B    | 9      | XCCSE0  | 08       | XCR7RA | 01     | 2                | TQ2   | D4                  | 26B                  |                    |        |
| 18542   |        | XA537     | 50  |        | XA537     | 70  |             |      | 16B    | 9      | XCR70R  | 02       | XCR70S | 01     | 2                | TQ2   | D2                  | 23A                  |                    |        |
| 18539   |        | XA537     | 51  |        | XA536     | 46  |             |      | 16B    | 9      | XCR7RA  | 01       | XCR7RA | 00     | 1                | TQ2   | D4                  | 27B                  |                    |        |
| 18526   |        | XA537     | 52  |        |           |     |             |      |        |        | XCR60S  | 03       | XCR60S | 00     | 1                | TQ2   | D1                  | 24A                  | DEV REQ 6          |        |
| 18338   |        | XA537     | 53  |        | XA536     | 72  |             |      | 16B    | 9      | XCINT0  | 02       | XCINTA | 01     | 1                | TQ2   | E3                  | 28B                  |                    |        |
| 18507   |        | XA537     | 54  |        | XA538     | 54  |             |      | 16B    | 9      | XCR6CA  | 01       | XCR60S | 01     | 1                | TQ2   | D1                  | 25A                  |                    |        |
| 06205   |        | XA537     | 55  |        | XA535     | 51  |             |      | 16B    | 9      | SPI043  | 20       | XCINTA | 01     | 2                | TQ2   | E3                  | 29B                  |                    |        |
| 18522   |        | XA537     | 56  |        | XA536     | 50  |             |      | 16B    | 9      | XCR60R  | 02       | XCR60S | 01     | 2                | TQ2   | D1                  | 26A                  |                    |        |
| 18336   |        | XA537     | 57  |        |           |     |             |      |        |        | XCINTA  | 02       | XCINTA | 00     | 1                | TQ2   | E3                  | 30B                  |                    |        |
| 03097   |        | XA537     | 58  |        |           |     |             |      |        |        | GND     | 01       |        |        |                  | TQ2   |                     | 27A                  |                    |        |
| 18274   |        | XA537     | 59  |        | XA536     | 55  |             |      | 16B    | 9      | XCCSEA  | 02       | XCENAO | 01     | 1                | TQ2   | E4                  | 31B                  |                    |        |
| 18548   |        | XA537     | 60  |        |           |     |             |      |        |        | XCSTBA  | 02       | XCSTBA | 00     | 1                | TQ2   | E2                  | 28A                  |                    |        |
| 18356   |        | XA537     | 61  |        | XA538     | 41  |             |      | 16B    | 9      | XCMRDA  | 03       | XCENAO | 01     | 2                | TQ2   | E4                  | 32B                  |                    |        |
| 06204   |        | XA537     | 62  |        | XA537     | 55  |             |      | 16B    | 9      | SPI043  | 19       | XCSTBA | 01     | 1                | TQ2   | E2                  | 29A                  |                    |        |
| 18293   |        | XA537     | 63  |        |           |     |             |      |        |        | XCENAO  | 02       | XCENAO | 00     | 1                | TQ2   | E4                  | 33B                  | DEV ENABLE         |        |
| 18551   |        | XA537     | 64  |        | XA538     | 56  |             |      | 16B    | 9      | XCSTB0  | 03       | XCSTBA | 01     | 2                | TQ2   | E2                  | 30A                  |                    |        |
| 06136   |        | XA537     | 65  |        | XA537     | 78  |             |      | 16B    | 9      | SPI041  | 23       |        | 01     | 1                | TQ2   | F3                  | 34B                  |                    |        |
| 18374   |        | XA537     | 66  |        |           |     |             |      |        |        | XCRE30  | 02       | XCRE30 | 00     | 1                | TQ2   | E1                  | 31A                  | DEV REQ 6+7        |        |
| 03098   |        | XA537     | 67  |        |           |     |             |      |        |        | GND     | 01       |        |        |                  | TQ2   |                     | 40A                  |                    |        |
| 18521   |        | XA537     | 68  |        | XA537     | 56  |             |      | 16B    | 9      | XCR60R  | 01       | XCRE30 | 01     | 1                | TQ2   | E1                  | 32A                  |                    |        |
| 08125   |        | XA537     | 69  |        |           |     |             |      |        |        | SPO     | 01       |        | 00     | 1                | TQ2   | F3                  | 35A                  |                    |        |
| 18543   |        | XA537     | 70  |        |           |     |             |      |        |        | XCR70R  | 03       | XCRE30 | 01     | 2                | TQ2   | E1                  | 33A                  |                    |        |
| 18359   |        | XA537     | 71  |        |           |     |             |      |        |        | XCMRD0  | 02       | XCMRCA | 01     | 1                | TQ2   | F2                  | 36A                  |                    |        |
| 18353   |        | XA537     | 72  |        |           |     |             |      |        |        | XCMRCA  | 09       | XCMRCA | 00     | 1                | TQ2   | F2                  | 34A                  | ENB.CMD.STB.       |        |
| 18549   |        | XA537     | 73  |        | XA536     | 70  |             |      | 16B    | 9      | XCSTB0  | 01       | XCMRCA | 01     | 2                | TQ2   | F2                  | 36B                  |                    |        |
| 06199   |        | XA537     | 74  |        | XA537     | 76  |             |      | 16B    | 9      | SPI043  | 14       |        | 01     | 2                | TQ2   | F3                  | 35B                  |                    |        |
| 18255   |        | XA537     | 75  |        |           |     |             |      |        |        | XCCMA0  | 02       | XCCMA0 | 00     | 1                | TQ2   | F1                  | 37B                  | DEV COMMAND        |        |
| 06200   |        | XA537     | 76  |        | XA536     | 76  |             |      | 16B    | 9      | SPI043  | 15       |        | 01     | 1                | TQ2   | F4                  | 37A                  |                    |        |
| 18354   |        | XA537     | 77  |        | XA536     | 63  |             |      | 16B    | 9      | XCMRDA  | 01       | XCCMA0 | 01     | 1                | TQ2   | F1                  | 38B                  |                    |        |
| 06137   |        | XA537     | 78  |        | XA540     | 71  |             |      | 16B    | 9      | SPI041  | 24       |        | 01     | 2                | TQ2   | F4                  | 38A                  |                    |        |
| 18267   |        | XA537     | 79  |        | XA536     | 73  |             |      | 16B    | 9      | XCCSCA  | 01       | XCCMA0 | 01     | 2                | TQ2   | F1                  | 39B                  |                    |        |
| 08126   |        | XA537     | 80  |        |           |     |             |      |        |        | SPO     | 01       |        | 00     | 1                | TQ2   | F4                  | 39A                  |                    |        |
| 18411   |        | XA538     | 01  |        | XA536     | 11  |             |      | 16B    | 9      | XCR10A  | 01       | XCR10A | 00     | 1                | THI   | A4                  | 02B                  |                    |        |
| 03099   |        | XA538     | 02  |        |           |     |             |      |        |        | GND     | 01       |        |        |                  | THI   |                     | 01A                  |                    |        |
| 18389   |        | XA538     | 03  |        | XA536     | 09  |             |      | 16B    | 9      | XCR00A  | 01       | XCR00A | 00     | 1                | THI   | A3                  | 03A                  |                    |        |
| 18396   |        | XA538     | 04  |        |           |     |             |      |        |        | XCR00S  | 04       | XCR00A | 01     | 1                | THI   | A3                  | 02A                  |                    |        |
| CONNECTOR (XA538) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |        |        |         |          |        |        |                  |       |                     |                      |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA538  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 416

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 18418   |        | XA538     | 05  |        |           |     |             |      |       |       | XCR10S  | 04     | XCR10A   | 01   | 1      | THI              | A4    |                     | 03B                |                    |        |
| 18401   |        | XA538     | 06  |        |           |     |             |      |       |       | XCR1COX | 02     | XCR1CA   | 01   | 1      | THI              | A2    |                     | 05A                |                    |        |
| 08127   |        | XA538     | 07  |        |           |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | A5    |                     | 04B                |                    |        |
| 18398   |        | XA538     | 08  |        |           |     |             |      |       |       | XCR1CA  | 02     | XCR1CA   | 00   | 1      | THI              | A2    |                     | 04A                |                    |        |
| 06189   |        | XA538     | 09  |        | XA538     | 15  |             |      | 16B   | 9     | SPI043  | 04     |          | 01   | 1      | THI              | A5    |                     | 05B                |                    |        |
| 08128   |        | XA538     | 10  |        |           |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | A6    |                     | 06B                |                    |        |
| 18379   |        | XA538     | 11  |        |           |     |             |      |       |       | XCR3COX | 02     | XCR3CA   | 01   | 1      | THI              | A1    |                     | 07A                |                    |        |
| 00721   |        | XA538     | 12  |        |           |     |             |      |       |       | +5V     | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 18376   |        | XA538     | 13  |        |           |     |             |      |       |       | XCR0CA  | 02     | XCR0CA   | 00   | 1      | THI              | A1    |                     | 06A                |                    |        |
| 18455   |        | XA538     | 14  |        | XA536     | 21  |             |      | 16B   | 9     | XCR30A  | 01     | XCR30A   | 00   | 1      | THI              | B4    |                     | 08B                |                    |        |
| 06190   |        | XA538     | 15  |        | XA538     | 45  |             |      | 16B   | 9     | SPI043  | 05     |          | 01   | 1      | THI              | A6    |                     | 07B                |                    |        |
| 03100   |        | XA538     | 16  |        |           |     |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     | 20B                |                    |        |
| 18462   |        | XA538     | 17  |        |           |     |             |      |       |       | XCR30S  | 04     | XCR30A   | 01   | 1      | THI              | B4    |                     | 09B                |                    |        |
| 18433   |        | XA538     | 18  |        | XA536     | 13  |             |      | 16B   | 9     | XCR20A  | 01     | XCR20A   | 00   | 1      | THI              | B3    |                     | 09A                |                    |        |
| 18311   |        | XA538     | 19  |        |           |     |             |      |       |       | XCGNDA  | 07     | XCGNDA   | 00   | 1      | THI              | B5    |                     | 10B                |                    |        |
| 18440   |        | XA538     | 20  |        |           |     |             |      |       |       | XCR20S  | 04     | XCR20A   | 01   | 1      | THI              | B3    |                     | 10A                |                    |        |
| 06292   |        | XA538     | 21  |        | XA544     | 21  |             |      | 16B   | 9     | SPI301  | 11     | XCGNDA   | 01   | 1      | THI              | B5    |                     | 11B                | C13                |        |
| 18423   |        | XA538     | 22  |        |           |     |             |      |       |       | XCR2COX | 02     | XCR2CA   | 01   | 1      | THI              | B1    |                     | 14A                |                    |        |
| 18445   |        | XA538     | 23  |        |           |     |             |      |       |       | XCR3COX | 02     | XCR3CA   | 01   | 1      | THI              | B2    |                     | 12A                |                    |        |
| 18420   |        | XA538     | 24  |        |           |     |             |      |       |       | XCR2CA  | 02     | XCR2CA   | 00   | 1      | THI              | B1    |                     | 13A                |                    |        |
| 18442   |        | XA538     | 25  |        |           |     |             |      |       |       | XCR3CA  | 02     | XCR3CA   | 00   | 1      | THI              | B2    |                     | 11A                |                    |        |
| 18363   |        | XA538     | 26  |        | XA536     | 33  |             |      | 16B   | 9     | XCRE1A  | 01     | XCRE1A   | 00   | 1      | THI              | B6    |                     | 12B                |                    |        |
| 18366   |        | XA538     | 27  |        |           |     |             |      |       |       | XCRE1O  | 02     | XCRE1A   | 01   | 1      | THI              | B6    |                     | 13B                |                    |        |
| 00722   |        | XA538     | 28  |        |           |     |             |      |       |       | +5V     | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 18503   |        | XA538     | 29  |        | XA537     | 30  |             |      | 16B   | 9     | XCR50S  | 01     | XCR50A   | 01   | 1      | THI              | C4    |                     | 15B                |                    |        |
| 18499   |        | XA538     | 30  |        | XA536     | 25  |             |      | 16B   | 9     | XCR50A  | 01     | XCR50A   | 00   | 1      | THI              | C4    |                     | 14B                |                    |        |
| 18368   |        | XA538     | 31  |        |           |     |             |      |       |       | XCRE2A  | 02     | XCRE2A   | 00   | 1      | THI              | C5    |                     | 16B                |                    |        |
| 03101   |        | XA538     | 32  |        |           |     |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     | 21B                |                    |        |
| 18370   |        | XA538     | 33  |        |           |     |             |      |       |       | XCRE2O  | 02     | XCRE2A   | 01   | 1      | THI              | C5    |                     | 17B                |                    |        |
| 18477   |        | XA538     | 34  |        | XA536     | 23  |             |      | 16B   | 9     | XCR40A  | 01     | XCR40A   | 00   | 1      | THI              | C3    |                     | 15A                |                    |        |
| 18489   |        | XA538     | 35  |        |           |     |             |      |       |       | XCR5COX | 02     | XCR5CA   | 01   | 1      | THI              | C2    |                     | 18A                |                    |        |
| 18484   |        | XA538     | 36  |        |           |     |             |      |       |       | XCR40S  | 04     | XCR40A   | 01   | 1      | THI              | C3    |                     | 16A                |                    |        |
| 18486   |        | XA538     | 37  |        |           |     |             |      |       |       | XCR5CA  | 02     | XCR5CA   | 00   | 1      | THI              | C2    |                     | 17A                |                    |        |
| 18467   |        | XA538     | 38  |        |           |     |             |      |       |       | XCR4COX | 02     | XCR4CA   | 01   | 1      | THI              | C1    |                     | 20A                |                    |        |
| 18373   |        | XA538     | 39  |        | XA537     | 66  |             |      | 16B   | 9     | XCRE3O  | 01     | XCRE3A   | 01   | 1      | THI              | C6    |                     | 19B                |                    |        |
| 18464   |        | XA538     | 40  |        |           |     |             |      |       |       | XCR4CA  | 02     | XCR4CA   | 00   | 1      | THI              | C1    |                     | 19A                |                    |        |
| 18357   |        | XA538     | 41  |        |           |     |             |      |       |       | XCMRDA  | 04     | XCMRDO   | 01   | 1      | THI              | D4    |                     | 23B                |                    |        |
| 18372   |        | XA538     | 42  |        |           |     |             |      |       |       | XCRE3A  | 02     | XCRE3A   | 00   | 1      | THI              | C6    |                     | 18B                |                    |        |
| 08129   |        | XA538     | 43  |        |           |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | D5    |                     | 24B                |                    |        |
| 03102   |        | XA538     | 44  |        |           |     |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     | 27A                |                    |        |
| 06191   |        | XA538     | 45  |        | XA538     | 51  |             |      | 16B   | 9     | SPI043  | 06     |          | 00   | 1      | THI              | D5    |                     | 25B                |                    |        |
| 18358   |        | XA538     | 46  |        | XA537     | 71  |             |      | 16B   | 9     | XCMRDO  | 01     | XCMRDO   | 00   | 1      | THI              | D4    |                     | 22B                |                    |        |
| 18531   |        | XA538     | 47  |        |           |     |             |      |       |       | XCR7COX | 02     | XCR7CA   | 01   | 1      | THI              | D2    |                     | 24A                |                    |        |
| 18284   |        | XA538     | 48  |        |           |     |             |      |       |       | XCCSE0  | 09     | XCCSE0   | 00   | 1      | THI              | D3    |                     | 21A                |                    |        |
| 18527   |        | XA538     | 49  |        | XA537     | 48  |             |      | 16B   | 9     | XCR7CA  | 01     | XCR7CA   | 00   | 1      | THI              | D2    |                     | 23A                |                    |        |
| 18273   |        | XA538     | 50  |        | XA537     | 59  |             |      | 16B   | 9     | XCCSEA  | 01     | XCCSE0   | 01   | 1      | THI              | D3    |                     | 22A                |                    |        |
| 06192   |        | XA538     | 51  |        | XA538     | 69  |             |      | 16B   | 9     | SPI043  | 07     |          | 01   | 1      | THI              | D6    |                     | 27B                |                    |        |
| 18511   |        | XA538     | 52  |        |           |     |             |      |       |       | XCR6COX | 02     | XCR6CA   | 01   | 1      | THI              | D1    |                     | 26A                |                    |        |
| 08130   |        | XA538     | 53  |        |           |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | D6    |                     | 26B                |                    |        |
| 18508   |        | XA538     | 54  |        |           |     |             |      |       |       | XCR6CA  | 02     | XCR6CA   | 00   | 1      | THI              | D1    |                     | 25A                |                    |        |
| CONNECTOR (XA538) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA538  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T3919UX2 DATE 09-03-82 PAGE 417

| RECORD NUMBER | FROM   |           |                                 | SHT | TO     |           |     | SHT | WIRE  |      |       |       | SFC INST. MISC. | SIGNAL | SEQ NO  | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD. CP. POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------|------|-------|-------|-----------------|--------|---------|----------|------|--------|------------------|-------|-----------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             |     | PREFIX | CONNECTOR | PIN |     | GROUP | CODE | COLOR | IDENT |                 |        |         |          |      |        |                  |       |                       |                    |                    |        |
| 15671         |        | XA538     | 55                              |     | XA531  | 55        |     |     | 16B   | 9    |       |       | TSTBCA          | 03     | XCSTB0  | 01       | 1    | THI    | E4               |       | 29B                   |                    |                    |        |
| 18552         |        | XA538     | 56                              |     |        |           |     |     |       |      |       |       | XCSTB0          | 04     | XCSTB0  | 00       | 1    | THI    | E4               |       | 28B                   | IOC STROBE         |                    |        |
| 18296         |        | XA538     | 57                              |     |        |           |     |     |       |      |       |       | XCENB0          | 03     | XCENB0  | 00       | 1    | THI    | E5               |       | 30B                   | IOC ENABLE         |                    |        |
| 03103         |        | XA538     | 58                              |     |        |           |     |     |       |      |       |       | GND             | 01     |         |          |      | THI    |                  |       | 40A                   |                    |                    |        |
| 12517         |        | XA538     | 59                              |     | XA531  | 59        |     |     | 16B   | 9    |       |       | TENACA          | 03     | XCENB0  | 01       | 1    | THI    | E5               |       | 31B                   |                    |                    |        |
| 18337         |        | XA538     | 60                              |     | XA537  | 53        |     |     | 16B   | 9    |       |       | XCINT0          | 01     | XCINT0  | 00       | 1    | THI    | E3               |       | 28A                   | IOC INTERROGATE    |                    |        |
| 09930         |        | XA538     | 61                              |     | XA531  | 61        |     |     | 16B   | 9    |       |       | TCSXMA          | 03     | XCICR0  | 01       | 1    | THI    | E2               |       | 31A                   |                    |                    |        |
| 13395         |        | XA538     | 62                              |     | XA531  | 62        |     |     | 16B   | 9    |       |       | TINTCA          | 03     | XCINT0  | 01       | 1    | THI    | E3               |       | 29A                   |                    |                    |        |
| 18316         |        | XA538     | 63                              |     | XA536  | 47        |     |     | 16B   | 9    |       |       | XCICR0          | 05     | XCICR0  | 00       | 1    | THI    | E2               |       | 30A                   | IOE ADRS           |                    |        |
| 09984         |        | XA538     | 64                              |     | XA441  | 47        |     |     | 16B   | 9    |       |       | TCS4AA          | 01     | XCICSO  | 01       | 1    | THI    | E1               |       | 33A                   |                    |                    |        |
| 09751         |        | XA538     | 65                              |     | XA544  | 65        |     |     | 16B   | 9    |       |       | TCMDCA          | 05     | XCCMD0  | 01       | 1    | THI    | E6               |       | 33B                   |                    |                    |        |
| 18318         |        | XA538     | 66                              |     | XA536  | 66        |     |     | 16B   | 9    |       |       | XCICSO          | 01     | XCICSO  | 00       | 1    | THI    | E1               |       | 32A                   | IOC CH.SEL         |                    |        |
| 03104         |        | XA538     | 67                              |     |        |           |     |     |       |      |       |       | GND             | 01     |         |          |      | THI    |                  |       |                       |                    |                    |        |
| 18266         |        | XA538     | 68                              |     |        |           |     |     |       |      |       |       | XCCMD0          | 03     | XCCMD0  | 00       | 1    | THI    | E6               |       | 32B                   | IOC COMMAND        |                    |        |
| 06193         |        | XA538     | 69                              |     | XA538  | 74        |     |     | 16B   | 9    |       |       | SPI043          | 08     |         | 01       | 1    | THI    | F3               |       | 35B                   |                    |                    |        |
| 08131         |        | XA538     | 70                              |     |        |           |     |     |       |      |       |       | SPO             | 01     |         | 00       | 1    | THI    | F3               |       | 34B                   |                    |                    |        |
| 08132         |        | XA538     | 71                              |     |        |           |     |     |       |      |       |       | SPO             | 01     |         | 00       | 1    | THI    | F2               |       | 36B                   |                    |                    |        |
| 08133         |        | XA538     | 72                              |     |        |           |     |     |       |      |       |       | SPO             | 01     |         | 00       | 1    | THI    | F4               |       | 34A                   |                    |                    |        |
| 06198         |        | XA538     | 73                              |     | XA537  | 74        |     |     | 16B   | 9    |       |       | SPI043          | 13     |         | 01       | 1    | THI    | F2               |       | 37B                   |                    |                    |        |
| 06194         |        | XA538     | 74                              |     | XA538  | 76        |     |     | 16B   | 9    |       |       | SPI043          | 09     |         | 01       | 1    | THI    | F4               |       | 35A                   |                    |                    |        |
| 06197         |        | XA538     | 75                              |     | XA538  | 73        |     |     | 16B   | 9    |       |       | SPI043          | 12     |         | 01       | 1    | THI    | F6               |       | 39A                   |                    |                    |        |
| 06195         |        | XA538     | 76                              |     | XA538  | 79        |     |     | 16B   | 9    |       |       | SPI043          | 10     |         | 01       | 1    | THI    | F5               |       | 37A                   |                    |                    |        |
| 08134         |        | XA538     | 77                              |     |        |           |     |     |       |      |       |       | SPO             | 01     |         | 00       | 1    | THI    | F6               |       | 38A                   |                    |                    |        |
| 08135         |        | XA538     | 78                              |     |        |           |     |     |       |      |       |       | SPO             | 01     |         | 00       | 1    | THI    | F5               |       | 36A                   |                    |                    |        |
| 06196         |        | XA538     | 79                              |     | XA538  | 75        |     |     | 16B   | 9    |       |       | SPI043          | 11     |         | 01       | 1    | THI    | F1               |       | 39B                   |                    |                    |        |
| 08136         |        | XA538     | 80                              |     |        |           |     |     |       |      |       |       | SPO             | 01     |         | 00       | 1    | THI    | F1               |       | 38B                   |                    |                    |        |
| 19019         |        | XA539     | 01                              |     |        |           |     |     |       |      |       | J     | XD03CDX         | 01     | XD03CDX | 00       | 1    | DCF    | A7               |       | 02A                   | XD03DB4 BUSS       |                    |        |
| 19026         |        | XA539     | 01                              |     | XA501  | 13        |     |     | 16B   | 9    |       | P     | XD03CDX         | 02     | XD03DB4 | 01       | 1    | DCF    | A7               |       | 02A                   | DEV DATA LINE 3    | C02                |        |
| 19029         |        | XA539     | 02                              |     |        |           |     |     |       |      |       |       | XD03DB4R        | 02     |         |          |      | DCF    |                  |       | 01A                   |                    |                    |        |
| 21312         |        | XA539     | 02                              |     |        |           |     |     |       |      |       |       | GND             | 01     |         |          |      | DCF    |                  |       | 01A                   |                    |                    |        |
| 19020         |        | XA539     | 03                              |     | XA541  | 04        |     |     | 16B   | 9    |       |       | XD03COX         | 01     | XD03COX | 00       | 1    | DCF    | A8               |       | 03A                   |                    |                    |        |
| 11029         |        | XA539     | 04                              |     | XA546  | 04        |     |     | 16B   | 9    |       |       | TDL3A0          | 07     | XD03COX | 01       | 1    | DCF    | A8               |       | 04A                   |                    |                    |        |
| 18990         |        | XA539     | 05                              |     |        |           |     |     |       |      |       |       | XD00DB4R        | 02     |         |          |      | DCF    |                  |       |                       |                    |                    |        |
| 18702         |        | XA539     | 06                              |     | XA539  | 36        |     |     | 16B   | 9    |       |       | XDCSSA          | 01     | XD03CDX | 01       | 1    | DCF    | A1               |       | 05A                   |                    |                    |        |
| 20720         |        | XA539     | 06                              |     |        |           |     |     |       |      |       | M     | XDCSSA          | 01     | XD02CDX | 01       | 1    | DCF    | A5               |       | 05A                   |                    |                    |        |
| 20721         |        | XA539     | 06                              |     |        |           |     |     |       |      |       | M     | XDCSSA          | 01     | XD03CDX | 01       | 1    | DCF    | A7               |       | 05A                   |                    |                    |        |
| 20722         |        | XA539     | 06                              |     |        |           |     |     |       |      |       | M     | XDCSSA          | 01     | XD01CDX | 01       | 1    | DCF    | A3               |       | 05A                   |                    |                    |        |
| 18980         |        | XA539     | 07                              |     |        |           |     |     |       |      |       | J     | XD03CDX         | 01     | XD00CDX | 00       | 1    | DCF    | A1               |       | 02B                   | XD00DB4 BUSS       |                    |        |
| 18987         |        | XA539     | 07                              |     | XA501  | 05        |     |     | 16B   | 9    |       | P     | XD00CDX         | 02     | XD00DB4 | 01       | 1    | DCF    | A1               |       | 02B                   | DEV DATA LINE 0    | C02                |        |
| 11011         |        | XA539     | 08                              |     | XA533  | 08        |     |     | 16B   | 9    |       |       | TDL2A0          | 03     | XD02COX | 01       | 1    | DCF    | A6               |       | 06A                   |                    |                    |        |
| 18981         |        | XA539     | 09                              |     | XA541  | 11        |     |     | 16B   | 9    |       |       | XD00COX         | 01     | XD00COX | 00       | 1    | DCF    | A2               |       | 03B                   |                    |                    |        |
| 19007         |        | XA539     | 10                              |     | XA541  | 08        |     |     | 16B   | 9    |       |       | XD02COX         | 01     | XD02COX | 00       | 1    | DCF    | A6               |       | 07A                   |                    |                    |        |
| 10990         |        | XA539     | 11                              |     | XA546  | 11        |     |     | 16B   | 9    |       |       | TDL0A0          | 06     | XD03COX | 01       | 1    | DCF    | A2               |       | 04B                   |                    |                    |        |
| 00723         |        | XA539     | 12                              |     |        |           |     |     |       |      |       |       | +5V             | 01     |         |          |      | DCF    |                  |       | 08A                   |                    |                    |        |
| 11002         |        | XA539     | 13                              |     | XA546  | 13        |     |     | 16B   | 9    |       |       | TDL1A0          | 06     | XD01COX | 01       | 1    | DCF    | A4               |       | 05B                   |                    |                    |        |
| 19006         |        | XA539     | 14                              |     |        |           |     |     |       |      |       | J     | XD02CDX         | 01     | XD02CDX | 00       | 1    | DCF    | A5               |       | 08B                   | XD02DB4 BUSS       |                    |        |
| 19013         |        | XA539     | 14                              |     | XA501  | 09        |     |     | 16B   | 9    |       | P     | XD02COX         | 02     | XD02DB4 | 01       | 1    | DCF    | A5               |       | 08B                   | DEV DATA LINE 2    | C02                |        |
| 18994         |        | XA539     | 15                              |     | XA541  | 13        |     |     | 16B   | 9    |       |       | XD01COX         | 01     | XD01COX | 00       | 1    | DCF    | A4               |       | 06B                   |                    |                    |        |
| CONNECTOR     |        | XA539     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |       |      |       |       |                 |        |         |          |      |        |                  |       |                       |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA539  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 418

| RECORD NUMBER                                   | FROM   |           |     | TO    |        |           | WIRE |       |             |      | SPEC INST | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS |       | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|-------|--------|-----------|------|-------|-------------|------|-----------|----------|--------|----------|------|--------|------------------|-------|---------------------|-------------|-------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN | SH TO | PREFIX | CONNECTOR | PIN  | SH TO | MULTI GROUP | CODE |           |          |        |          |      |        |                  |       |                     | COLOR       | IDENT |                    |         |
| 19016   |        | XA539     | 16  |       |        |           |      |       |             |      |           | XD02DB4R | 02     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 21313   |        | XA539     | 16  |       |        |           |      |       |             |      |           | GND      | 01     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 18993   |        | XA539     | 17  |       |        |           |      |       |             |      |           | XD01CDX  | 01     | XD01CDX  | 00   | 1      | DCF              | A3    |                     | 07B         |       |                    |         |
| 19000   |        | XA539     | 17  |       | XA501  | 07        |      |       |             | 16B  | 9         | XD01CDX  | 02     | XD01DB4  | 01   | 1      | OCF              | A3    |                     | 07B         |       | XD01DB4 BUSS       | C02     |
| 01650   |        | XA539     | 18  |       |        |           |      |       |             |      |           | DNW      | 01     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 19003   |        | XA539     | 19  |       |        |           |      |       |             |      |           | XD01DB4R | 02     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 01651   |        | XA539     | 20  |       |        |           |      |       |             |      |           | DNW      | 01     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 19081   |        | XA539     | 21  |       |        |           |      |       |             |      |           | XD07DB4R | 02     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 01652   |        | XA539     | 22  |       |        |           |      |       |             |      |           | DNW      | 01     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 19071   |        | XA539     | 23  |       |        |           |      |       |             |      |           | XD07CDX  | 01     | XD07CDX  | 00   | 1      | DCF              | B7    |                     | 10A         |       | XD07DB4 BUSS       |         |
| 19078   |        | XA539     | 23  |       | XA501  | 23        |      |       |             | 16B  | 9         | XD07CDX  | 02     | XD07DB4  | 01   | 1      | DCF              | B7    |                     | 10A         |       | DEV DATA LINE 7    | C02     |
| 01653   |        | XA539     | 24  |       |        |           |      |       |             |      |           | DNW      | 01     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 19042   |        | XA539     | 25  |       |        |           |      |       |             |      |           | XD04DB4R | 02     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 01654   |        | XA539     | 26  |       |        |           |      |       |             |      |           | DNW      | 01     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 19032   |        | XA539     | 27  |       |        |           |      |       |             |      |           | XD04CDX  | 01     | XD04CDX  | 00   | 1      | DCF              | B1    |                     | 10B         |       | XD04DB4 BUSS       |         |
| 19039   |        | XA539     | 27  |       | XA501  | 17        |      |       |             | 16B  | 9         | XD04CDX  | 02     | XD04DB4  | 01   | 1      | DCF              | B1    |                     | 10B         |       |                    | C02     |
| 00724   |        | XA539     | 28  |       |        |           |      |       |             |      |           | +5V      | 01     |          |      |        | DCF              |       |                     | 21B         |       |                    |         |
| 19033   |        | XA539     | 29  |       | XA541  | 31        |      |       |             | 16B  | 9         | XD04C0X  | 01     | XD04C0X  | 00   | 1      | DCF              | B2    |                     | 11B         |       | DEV DATA LINE 4    |         |
| 19072   |        | XA539     | 30  |       | XA541  | 34        |      |       |             | 16B  | 9         | XD07C0X  | 00     | XD07C0X  | 00   | 1      | DCF              | B8    |                     | 11A         |       |                    |         |
| 11042   |        | XA539     | 31  |       | XA546  | 31        |      |       |             | 16B  | 9         | TDL4A0   | 07     | XD04C0X  | 01   | 1      | DCF              | B2    |                     | 12B         |       |                    |         |
| 03105   |        | XA539     | 32  |       |        |           |      |       |             |      |           | GND      | 01     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 11055   |        | XA539     | 33  |       | XA546  | 33        |      |       |             | 16B  | 9         | TDL5A0   | 07     | XD05C0X  | 01   | 1      | DCF              | B4    |                     | 13B         |       |                    |         |
| 11080   |        | XA539     | 34  |       | XA546  | 34        |      |       |             | 16B  | 9         | TDL7A0   | 07     | XD07C0X  | 00   | 1      | DCF              | B8    |                     | 12A         |       |                    |         |
| 19046   |        | XA539     | 35  |       | XA541  | 33        |      |       |             | 16B  | 9         | XD05C0X  | 01     | XD05C0X  | 00   | 1      | DCF              | B4    |                     | 14B         |       |                    |         |
| 18703   |        | XA539     | 36  |       | XA539  | 52        |      |       |             | 16B  | 9         | XDCSSA   | 02     | XD04C0X  | 01   | 1      | DCF              | B1    |                     | 13A         |       |                    |         |
| 20723   |        | XA539     | 36  |       |        |           |      |       |             |      |           | XDCSSA   | 01     | XD07C0X  | 01   | 1      | DCF              | B7    |                     | 13A         |       |                    |         |
| 20724   |        | XA539     | 36  |       |        |           |      |       |             |      |           | XDCSSA   | 01     | XD06C0X  | 01   | 1      | DCF              | B5    |                     | 13A         |       |                    |         |
| 20725   |        | XA539     | 36  |       |        |           |      |       |             |      |           | XDCSSA   | 01     | XD05C0X  | 01   | 1      | DCF              | B3    |                     | 13A         |       |                    |         |
| 19045   |        | XA539     | 37  |       |        |           |      |       |             |      |           | XD05C0X  | 01     | XD05C0X  | 00   | 1      | DCF              | B3    |                     | 15B         |       | XD05DB4 BUSS       |         |
| 19052   |        | XA539     | 37  |       | XA501  | 19        |      |       |             | 16B  | 9         | XD05C0X  | 02     | XD05DB4  | 01   | 1      | DCF              | B3    |                     | 15B         |       | DEV DATA LINE 5    | C02     |
| 11067   |        | XA539     | 38  |       | XA546  | 38        |      |       |             | 16B  | 9         | TDL6A0   | 06     | XD06C0X  | 01   | 1      | DCF              | B6    |                     | 14A         |       |                    |         |
| 19055   |        | XA539     | 39  |       |        |           |      |       |             |      |           | XD05DB4R | 02     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 19061   |        | XA539     | 40  |       |        |           |      |       |             |      |           | XD06C0X  | 03     | XD06C0X  | 00   | 1      | DCF              | B6    |                     | 15A         |       |                    |         |
| 19058   |        | XA539     | 41  |       |        |           |      |       |             |      |           | XD06C0X  | 01     | XD06C0X  | 00   | 1      | DCF              | B5    |                     | 16A         |       | XD06DB4 BUSS       |         |
| 19065   |        | XA539     | 41  |       | XA501  | 21        |      |       |             | 16B  | 9         | XD06C0X  | 02     | XD06DB4  | 01   | 1      | DCF              | B5    |                     | 16A         |       | DEV DATA LINE 6    | C02     |
| 19068   |        | XA539     | 42  |       |        |           |      |       |             |      |           | XD06DB4R | 02     |          |      |        | DCF              |       |                     | 20B         |       |                    |         |
| 18835   |        | XA539     | 43  |       |        |           |      |       |             |      |           | XDR2C0X  | 01     | XDR2C0X  | 00   | 1      | DCF              | C7    |                     | 25A         |       | XDR2DB4 BUSS       |         |
| 18841   |        | XA539     | 43  |       | XA501  | 33        |      |       |             | 16B  | 9         | XDR2C0X  | 02     | XDR2DB4  | 01   | 1      | DCF              | C7    |                     | 25A         |       |                    | C02     |
| 18844   |        | XA539     | 44  |       |        |           |      |       |             |      |           | XDR2DB4R | 02     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 21314   |        | XA539     | 44  |       |        |           |      |       |             |      |           | GND      | 01     |          |      |        | DCF              |       |                     |             |       |                    |         |
| 18977   |        | XA539     | 45  |       |        |           |      |       |             |      |           | XD0PDB4R | 02     |          |      |        | DCF              |       |                     | 27A         |       |                    |         |
| 18968   |        | XA539     | 46  |       |        |           |      |       |             |      |           | XD0PC0X  | 01     | XD0PC0X  | 00   | 1      | DCF              | C1    |                     | 25B         |       | XD0PDB4 BUSS       |         |
| 18974   |        | XA539     | 46  |       | XA501  | 03        |      |       |             | 16B  | 9         | XD0PC0X  | 02     | XD0PDB4  | 01   | 1      | DCF              | C1    |                     | 25B         |       | DEV DATA LINE PART | C02     |
| 18969   |        | XA539     | 47  |       | XA540  | 49        |      |       |             | 16B  | 9         | XD0PC0X  | 01     | XD0PC0X  | 00   | 1      | DCF              | C2    |                     | 26B         |       |                    |         |
| 18836   |        | XA539     | 48  |       | XA544  | 22        |      |       |             | 16B  | 9         | XDR2C0X  | 01     | XDR2C0X  | 00   | 1      | DCF              | C8    |                     | 26A         |       | DEV REQ REC. 2     |         |
| 10983   |        | XA539     | 49  |       | XA546  | 49        |      |       |             | 16B  | 9         | TDLPA0   | 07     | XD0PC0X  | 01   | 1      | DCF              | C2    |                     | 27B         |       |                    |         |
| 18722   |        | XA539     | 50  |       | XA539  | 54        |      |       |             | 16B  | 9         | XDGND4   | 04     | XDR2C0X  | 01   | 1      | DCF              | C8    |                     | 28A         |       |                    |         |
| 18721   |        | XA539     | 51  |       | XA539  | 50        |      |       |             | 16B  | 9         | XDGND4   | 03     | XDR0C0X  | 01   | 1      | DCF              | C4    |                     | 28B         |       |                    |         |
| 18704   |        | XA539     | 52  |       | XA542  | 64        |      |       |             | 16B  | 9         | XDCSSA   | 03     | XD0PC0X  | 01   | 1      | DCF              | C1    |                     | 29A         |       |                    |         |
| 20726   |        | XA539     | 52  |       |        |           |      |       |             |      |           | XDCSSA   | 01     | XDR0C0X  | 01   | 1      | DCF              | C3    |                     | 29A         |       |                    |         |
| CONNECTOR XA539 CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |      |       |             |      |           |          |        |          |      |        |                  |       |                     |             |       |                    |         |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA539  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 419

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SPEC INST | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|-----------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |           |          |        |          |      |        |                  |       |                     |                    |                    |        |
| 20727   |        | XA539     | 52  |        |           |     |             |      |       |       | M         | XDCSSA   | 01     | XDR2CDX  | 01   | 1      | DCF              | C7    |                     | 29A                |                    |        |
| 20728   |        | XA539     | 52  |        |           |     |             |      |       |       | M         | XDCSSA   | 01     | XDR1CDX  | 01   | 1      | DCF              | C5    |                     | 29A                |                    |        |
| 18800   |        | XA539     | 53  |        |           |     |             |      |       |       |           | XDR0DB4R | 02     |          |      |        | DCF              |       |                     |                    |                    |        |
| 18723   |        | XA539     | 54  |        | XA541     | 52  |             | 16B  | 9     |       |           | XDGNDA   | 05     | XDR1COX  | 01   | 1      | DCF              | C6    |                     | 30A                |                    |        |
| 18791   |        | XA539     | 55  |        |           |     |             |      |       |       | J         | XDR0CDX  | 01     | XDR0CDX  | 00   | 1      | DCF              | C3    |                     | 30B                | XDR0DB4 BUSS       |        |
| 18797   |        | XA539     | 55  |        | XA501     | 25  |             | 16B  | 9     |       | P         | XDR0CDX  | 02     | XDR0DB4  | 01   | 1      | DCF              | C3    |                     | 30B                |                    |        |
| 18792   |        | XA539     | 56  |        | XA544     | 11  |             | 16B  | 9     |       |           | XDR0COX  | 01     | XDR0COX  | 00   | 1      | DCF              | C4    |                     | 29B                | DEV REQ REC. 0     |        |
| 18814   |        | XA539     | 57  |        | XA544     | 06  |             | 16B  | 9     |       |           | XDR1COX  | 01     | XDR1COX  | 00   | 1      | DCF              | C6    |                     | 31A                | DEV REQ REC. 1     |        |
| 18822   |        | XA539     | 58  |        |           |     |             |      |       |       |           | XDR1DB4R | 02     |          |      |        | DCF              |       |                     |                    |                    |        |
| 21315   |        | XA539     | 58  |        |           |     |             |      |       |       |           | GND      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 18932   |        | XA539     | 59  |        |           |     |             |      |       |       | J         | XDR6DB4R | 02     |          |      |        | DCF              |       |                     |                    |                    |        |
| 18813   |        | XA539     | 60  |        |           |     |             |      |       |       | J         | XDR1CDX  | 01     | XDR1CDX  | 00   | 1      | DCF              | C5    |                     | 31B                | XDR1DB4 BUSS       |        |
| 18819   |        | XA539     | 60  |        | XA501     | 29  |             | 16B  | 9     |       | J         | XDR1CDX  | 02     | XDR1DB4  | 01   | 1      | DCF              | C5    |                     | 31B                |                    |        |
| 18923   |        | XA539     | 61  |        |           |     |             |      |       |       | P         | XDR6CDX  | 01     | XDR6CDX  | 00   | 1      | DCF              | D7    |                     | 33A                | XDR6DB4 BUSS       |        |
| 18929   |        | XA539     | 61  |        | XA501     | 41  |             | 16B  | 9     |       | P         | XDR6CDX  | 02     | XDR6DB4  | 01   | 1      | DCF              | D7    |                     | 33A                |                    |        |
| 01655   |        | XA539     | 62  |        |           |     |             |      |       |       |           | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 01656   |        | XA539     | 63  |        |           |     |             |      |       |       |           | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 01657   |        | XA539     | 64  |        |           |     |             |      |       |       |           | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 18857   |        | XA539     | 65  |        |           |     |             |      |       |       | J         | XDR3CDX  | 01     | XDR3CDX  | 00   | 1      | DCF              | D1    |                     | 32B                | XDR3DB4 BUSS       |        |
| 18863   |        | XA539     | 65  |        | XA501     | 35  |             | 16B  | 9     |       | P         | XDR3CDX  | 02     | XDR3DB4  | 01   | 1      | DCF              | D1    |                     | 32B                |                    |        |
| 01658   |        | XA539     | 66  |        |           |     |             |      |       |       |           | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 18866   |        | XA539     | 67  |        |           |     |             |      |       |       |           | XDR3DB4R | 02     |          |      |        | DCF              |       |                     |                    |                    |        |
| 21316   |        | XA539     | 67  |        |           |     |             |      |       |       |           | GND      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 18924   |        | XA539     | 68  |        | XA544     | 52  |             | 16B  | 9     |       |           | XDR6COX  | 01     | XDR6COX  | 00   | 1      | DCF              | D8    |                     | 34A                | DEV REQ REC. 6     |        |
| 18858   |        | XA539     | 69  |        | XA544     | 23  |             | 16B  | 9     |       |           | XDR3COX  | 01     | XDR3COX  | 00   | 1      | DCF              | D2    |                     | 33B                | DEV REQ REC. 3     |        |
| 06304   |        | XA539     | 70  |        | XA539     | 74  |             | 16B  | 9     |       |           | SPI309   | 05     | XDR6COX  | 01   | 1      | DCF              | D8    |                     | 35A                |                    |        |
| 06307   |        | XA539     | 71  |        | XA533     | 70  |             | 16B  | 9     |       |           | SPI309   | 08     | XDR3COX  | 01   | 1      | DCF              | D2    |                     | 34B                |                    |        |
| 06281   |        | XA539     | 72  |        | XA533     | 72  |             | 16B  | 9     |       |           | SPI301   | 02     | XDR3CDX  | 01   | 1      | DCF              | D1    |                     | 36A                |                    |        |
| 20354   |        | XA539     | 72  |        |           |     |             |      |       |       | M         | SPI301   | 01     | XDR6CDX  | 01   | 1      | DCF              | D7    |                     | 36A                |                    |        |
| 20355   |        | XA539     | 72  |        |           |     |             |      |       |       | M         | SPI301   | 01     | XDR5CDX  | 01   | 1      | DCF              | D5    |                     | 36A                |                    |        |
| 20356   |        | XA539     | 72  |        |           |     |             |      |       |       | M         | SPI301   | 01     | XDR4COX  | 01   | 1      | DCF              | D3    |                     | 36A                |                    |        |
| 06306   |        | XA539     | 73  |        | XA539     | 71  |             | 16B  | 9     |       |           | SPI309   | 07     | XDR4COX  | 01   | 1      | DCF              | D4    |                     | 35B                |                    |        |
| 06305   |        | XA539     | 74  |        | XA539     | 73  |             | 16B  | 9     |       |           | SPI309   | 06     | XDR5COX  | 01   | 1      | DCF              | D6    |                     | 37A                |                    |        |
| 18880   |        | XA539     | 75  |        | XA544     | 38  |             | 16B  | 9     |       |           | XDR4COX  | 01     | XDR4COX  | 00   | 1      | DCF              | D4    |                     | 36B                | DEV REQ REC. 4     |        |
| 18902   |        | XA539     | 76  |        | XA544     | 35  |             | 16B  | 9     |       |           | XDR5COX  | 01     | XDR5COX  | 00   | 1      | DCF              | D6    |                     | 38A                | DEV REQ REC. 5     |        |
| 18888   |        | XA539     | 77  |        |           |     |             |      |       |       |           | XDR4DB4R | 02     |          |      |        | DCF              |       |                     |                    |                    |        |
| 18879   |        | XA539     | 78  |        |           |     |             |      |       |       | J         | XDR4COX  | 01     | XDR4COX  | 00   | 1      | DCF              | D3    |                     | 37B                | XDR4DB4 BUSS       |        |
| 18884   |        | XA539     | 78  |        | XA545     | 25  |             | 16B  | 9     |       | P         | XDR4COX  | 01     | XDR4DB4  | 01   | 1      | DCF              | D3    |                     | 37B                |                    |        |
| 18910   |        | XA539     | 79  |        |           |     |             |      |       |       |           | XDR5DB4R | 02     |          |      |        | DCF              |       |                     | 40B                |                    |        |
| 18901   |        | XA539     | 80  |        |           |     |             |      |       |       | J         | XDR5COX  | 01     | XDR5COX  | 00   | 1      | DCF              | D5    |                     | 38B                | XDR5DB4 BUSS       |        |
| 18906   |        | XA539     | 80  |        | XA545     | 29  |             | 16B  | 9     |       | P         | XDR5COX  | 01     | XDR5DB4  | 01   | 1      | DCF              | D5    |                     | 38B                |                    |        |
| 10846   |        | XA540     | 01  |        | XA535     | 01  |             | 16B  | 9     |       | P         | XD03BDX  | 04     | TDI3BB4  | 08   | 1      | DCF              | A7    |                     | 02A                | DEV REQ 3 TO IQC   |        |
| 19018   |        | XA540     | 01  |        |           |     |             |      |       |       | J         | XD03BDX  | 01     | XD03BDX  | 00   | 1      | DCF              | A7    |                     | 02A                | TDI3BB4 BUSS       |        |
| 03236   |        | XA540     | 02  |        |           |     |             |      |       |       |           | GND      | 01     |          |      |        | DCF              |       |                     | 01A                |                    |        |
| 20743   |        | XA540     | 03  |        |           |     |             |      |       |       | M         | XD03BOX  | 01     | XD03BOX  | 00   | 1      | DCF              | A8    |                     | 03A                |                    |        |
| 18876   |        | XA540     | 04  |        |           |     |             |      |       |       |           | XDR30S   | 04     | XD03BOX  | 01   | 1      | DCF              | A8    |                     | 04A                |                    |        |
| 03243   |        | XA540     | 05  |        |           |     |             |      |       |       |           | SPP      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 18650   |        | XA540     | 06  |        | XA540     | 36  |             | 16B  | 9     |       |           | XDCSIA   | 01     | XD00BDX  | 01   | 1      | DCF              | A1    |                     | 05A                |                    |        |
| CONNECTOR (XA540) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |           |          |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA540  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 420

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO           |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|--------|---------|----------|---------|--------|------------------|-------|---------------------|--------------------|--------------------|------------------|
|   | PREFIX | CONNECTOR | PIN | IN 12 | PREFIX | CONNECTOR | PIN | IN 12 | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |         |        |                  |       |                     |                    |                    |                  |
| 20714   |        | XA540     | 06  |       |        |           |     |       |             |      |       |       | M      | XDCSIA  | 01       | XD01B0X | 01     | 1                | DCF   | A3                  |                    | 05A                |                  |
| 20715   |        | XA540     | 06  |       |        |           |     |       |             |      |       |       | M      | XDCSIA  | 01       | XD02B0X | 01     | 1                | DCF   | A5                  |                    | 05A                |                  |
| 20716   |        | XA540     | 06  |       |        |           |     |       |             |      |       |       | M      | XDCSIA  | 01       | XD03B0X | 01     | 1                | DCF   | A7                  |                    | 05A                |                  |
| 10770   |        | XA540     | 07  |       | XA541  | 07        |     |       |             | 16B  | 9     |       | P      | XD03B0X | 09       | TDI08B4 | 08     | 1                | DCF   | A1                  |                    | 02B                | DEV REQ 0 TO IOC |
| 18979   |        | XA540     | 07  |       |        |           |     |       |             |      |       |       | J      | XD00B0X | 01       | XD00B0X | 00     | 1                | DCF   | A1                  |                    | 02B                | TDI08B4 BUSS     |
| 18851   |        | XA540     | 08  |       | XA542  | 22        |     |       |             | 16B  | 9     |       |        | XDR20S  | 01       | XD02B0X | 01     | 1                | DCF   | A6                  |                    | 06A                |                  |
| 20737   |        | XA540     | 09  |       |        |           |     |       |             |      |       |       | M      | XD00B0X | 01       | XD00B0X | 00     | 1                | DCF   | A2                  |                    | 03B                |                  |
| 20741   |        | XA540     | 10  |       |        |           |     |       |             |      |       |       | M      | XD02B0X | 01       | XD02B0X | 00     | 1                | DCF   | A6                  |                    | 07A                |                  |
| 18807   |        | XA540     | 11  |       | XA542  | 06        |     |       |             | 16B  | 9     |       |        | XDR00S  | 01       | XD00B0X | 01     | 1                | DCF   | A2                  |                    | 04B                |                  |
| 00725   |        | XA540     | 12  |       |        |           |     |       |             |      |       |       |        | +5V     | 01       |         |        |                  | DCF   |                     |                    | 08A                |                  |
| 18829   |        | XA540     | 13  |       | XA542  | 01        |     |       |             | 16B  | 9     |       |        | XDR10S  | 01       | XD01B0X | 01     | 1                | DCF   | A4                  |                    | 05B                |                  |
| 10819   |        | XA540     | 14  |       | XA535  | 14        |     |       |             | 16B  | 9     |       | P      | XD02B0X | 04       | TDI28B4 | 08     | 1                | DCF   | A5                  |                    | 08B                | DEV REQ 2 TO IOC |
| 19005   |        | XA540     | 14  |       |        |           |     |       |             |      |       |       | J      | XD02B0X | 01       | XD02B0X | 00     | 1                | DCF   | A5                  |                    | 08B                | TDI28B4 BUSS     |
| 20739   |        | XA540     | 15  |       |        |           |     |       |             |      |       |       | M      | XD01B0X | 01       | XD01B0X | 00     | 1                | DCF   | A4                  |                    | 06B                |                  |
| 03258   |        | XA540     | 16  |       |        |           |     |       |             |      |       |       |        | GND     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 10792   |        | XA540     | 17  |       | XA535  | 17        |     |       |             | 16B  | 9     |       | P      | XD01B0X | 04       | TDI18B4 | 08     | 1                | DCF   | A3                  |                    | 07B                | DEV REQ 1 TO IOC |
| 18992   |        | XA540     | 17  |       |        |           |     |       |             |      |       |       | J      | XD01B0X | 01       | XD01B0X | 00     | 1                | DCF   | A3                  |                    | 07B                | TDI18B4 BUSS     |
| 01659   |        | XA540     | 18  |       |        |           |     |       |             |      |       |       |        | DNW     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 03265   |        | XA540     | 19  |       |        |           |     |       |             |      |       |       |        | SPP     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 01660   |        | XA540     | 20  |       |        |           |     |       |             |      |       |       |        | DNW     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 03288   |        | XA540     | 21  |       |        |           |     |       |             |      |       |       |        | SPP     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 01661   |        | XA540     | 22  |       |        |           |     |       |             |      |       |       |        | DNW     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 10954   |        | XA540     | 23  |       | XA535  | 23        |     |       |             | 16B  | 9     |       | P      | XD07B0X | 04       | TDI78B4 | 08     | 1                | DCF   | B7                  |                    | 10A                | DEV REQ 7 TO IOC |
| 19070   |        | XA540     | 23  |       |        |           |     |       |             |      |       |       | J      | XD07B0X | 01       | XD07B0X | 00     | 1                | DCF   | B7                  |                    | 10A                | TDI78B4 BUSS     |
| 01662   |        | XA540     | 24  |       |        |           |     |       |             |      |       |       |        | DNW     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 03281   |        | XA540     | 25  |       |        |           |     |       |             |      |       |       |        | SPP     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 01663   |        | XA540     | 26  |       |        |           |     |       |             |      |       |       |        | DNW     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 10878   |        | XA540     | 27  |       | XA541  | 27        |     |       |             | 16B  | 9     |       | P      | XD04B0X | 09       | TDI48B4 | 08     | 1                | DCF   | B1                  |                    | 10B                | DEV REQ 4 TO IOC |
| 19031   |        | XA540     | 27  |       |        |           |     |       |             |      |       |       | J      | XD04B0X | 01       | XD04B0X | 00     | 1                | DCF   | B1                  |                    | 10B                | TDI48B4 BUSS     |
| 00726   |        | XA540     | 28  |       |        |           |     |       |             |      |       |       |        | +5V     | 01       |         |        |                  | DCF   |                     |                    | 21B                |                  |
| 20745   |        | XA540     | 29  |       |        |           |     |       |             |      |       |       | M      | XD04B0X | 01       | XD04B0X | 00     | 1                | DCF   | B2                  |                    | 11B                |                  |
| 20751   |        | XA540     | 30  |       |        |           |     |       |             |      |       |       | M      | XD07B0X | 01       | XD07B0X | 00     | 1                | DCF   | B8                  |                    | 11A                |                  |
| 18895   |        | XA540     | 31  |       | XA542  | 38        |     |       |             | 16B  | 9     |       |        | XDR40S  | 01       | XD04B0X | 01     | 1                | DCF   | B2                  |                    | 12B                |                  |
| 03106   |        | XA540     | 32  |       |        |           |     |       |             |      |       |       |        | GND     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 18920   |        | XA540     | 33  |       |        |           |     |       |             |      |       |       |        | XDR50S  | 04       | XD05B0X | 01     | 1                | DCF   | B4                  |                    | 13B                |                  |
| 18960   |        | XA540     | 34  |       |        |           |     |       |             |      |       |       |        | XDR70S  | 03       | XD07B0X | 01     | 1                | DCF   | B8                  |                    | 12A                |                  |
| 20747   |        | XA540     | 35  |       |        |           |     |       |             |      |       |       | M      | XD05B0X | 01       | XD05B0X | 00     | 1                | DCF   | B4                  |                    | 14B                |                  |
| 18700   |        | XA540     | 36  |       | XA542  | 74        |     |       |             | 16B  | 9     |       |        | XDCSIA  | 02       | XD04B0X | 01     | 1                | DCF   | B1                  |                    | 13A                |                  |
| 20717   |        | XA540     | 36  |       |        |           |     |       |             |      |       |       | M      | XDCSIA  | 01       | XD05B0X | 01     | 1                | DCF   | B3                  |                    | 13A                |                  |
| 20718   |        | XA540     | 36  |       |        |           |     |       |             |      |       |       | M      | XDCSIA  | 01       | XD06B0X | 01     | 1                | DCF   | B5                  |                    | 13A                |                  |
| 20719   |        | XA540     | 36  |       |        |           |     |       |             |      |       |       | M      | XDCSIA  | 01       | XD07B0X | 01     | 1                | DCF   | B7                  |                    | 13A                |                  |
| 10900   |        | XA540     | 37  |       | XA535  | 37        |     |       |             | 16B  | 9     |       | P      | XD05B0X | 04       | TDI58B4 | 08     | 1                | DCF   | B3                  |                    | 15B                | DEV REQ 5 TO IOC |
| 19044   |        | XA540     | 37  |       |        |           |     |       |             |      |       |       | J      | XD05B0X | 01       | XD05B0X | 00     | 1                | DCF   | B3                  |                    | 15B                | TDI58B4 BUSS     |
| 18940   |        | XA540     | 38  |       |        |           |     |       |             |      |       |       |        | XDR60S  | 03       | XD06B0X | 01     | 1                | DCF   | B6                  |                    | 14A                |                  |
| 03305   |        | XA540     | 39  |       |        |           |     |       |             |      |       |       |        | SPP     | 01       |         |        |                  | DCF   |                     |                    |                    |                  |
| 20749   |        | XA540     | 40  |       |        |           |     |       |             |      |       |       |        | XD06B0X | 01       | XD06B0X | 00     | 1                | DCF   | B6                  |                    | 15A                |                  |
| 10932   |        | XA540     | 41  |       | XA541  | 41        |     |       |             | 16B  | 9     |       | J      | XD06B0X | 09       | TDI68B4 | 08     | 1                | DCF   | B5                  |                    | 16A                | DEV REQ 6 TO IOC |
| 19057   |        | XA540     | 41  |       |        |           |     |       |             |      |       |       | P      | XD06B0X | 01       | XD06B0X | 00     | 1                | DCF   | B5                  |                    | 16A                | TDI68B4 BUSS     |
| 03317   |        | XA540     | 42  |       |        |           |     |       |             |      |       |       |        | SPP     | 01       |         |        |                  | DCF   |                     |                    | 20B                |                  |
| 08137   |        | XA540     | 43  |       |        |           |     |       |             |      |       |       |        | SPO     | 01       |         |        |                  | DCF   | C7                  |                    | 25A                |                  |
| CONNECTOR (XA540) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |        |         |          |         |        |                  |       |                     |                    |                    |                  |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA450  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T3919UX2 DATE 09-03-82 PAGE 421

| RECORD NUMBER | FROM   |                                 |     | TO     |           |     | WIRE        |      |       | SFC INST. MISC. | SIGNAL | SEQ NO  | EQUATION | TERM    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO             |
|---------------|--------|---------------------------------|-----|--------|-----------|-----|-------------|------|-------|-----------------|--------|---------|----------|---------|--------|------------------|-------|---------------------|--------------------|--------------------|--------------------|
|               | PREFIX | CONNECTOR                       | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR |                 |        |         |          |         |        |                  |       |                     |                    |                    |                    |
| 03335         |        | XA540                           | 44  |        |           |     |             |      |       |                 |        |         |          |         |        |                  |       |                     |                    |                    |                    |
| 03328         |        | XA540                           | 45  |        |           |     |             |      |       |                 | GND    | 01      |          |         |        | DCF              |       |                     |                    |                    |                    |
| 10745         |        | XA540                           | 46  |        | XA547     | 46  |             | 16B  | 9     |                 | J      | XDOPAD  | 06       | TDIPBB4 | 04     | 1                | DCF   | C1                  |                    | 25B                | IOC INPUT DATA LIN |
| 18967         |        | XA540                           | 46  |        |           |     |             |      |       |                 | J      | XDOPAD  | 00       |         | 00     | 1                | DCF   |                     |                    | 25B                | TDIPBB4 BUSS       |
| 20735         |        | XA540                           | 47  |        |           |     |             |      |       |                 | M      | XDOPAAX | 01       | XDOPAAX | 00     | 1                | DCF   | C2                  |                    | 26B                |                    |
| 08138         |        | XA540                           | 48  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | C8                  |                    | 26A                |                    |
| 18970         |        | XA540                           | 49  |        |           |     |             |      |       |                 |        | XDOPCOX | 02       | XDOPAAX | 01     | 1                | DCF   | C2                  |                    | 27B                |                    |
| 06141         |        | XA540                           | 50  |        | XA535     | 54  |             | 16B  | 9     |                 |        | SPI041  | 28       |         | 01     | 1                | DCF   | C8                  |                    | 28A                |                    |
| 18741         |        | XA540                           | 51  |        |           |     |             |      |       |                 |        | XDINCOX | 01       |         | 01     | 1                | DCF   | C4                  |                    | 28B                |                    |
| 18683         |        | XA540                           | 52  |        | XA542     | 51  |             | 16B  | 9     |                 |        | XDCSDA  | 01       | XDOPAD  | 01     | 1                | DCF   | C1                  |                    | 29A                |                    |
| 20707         |        | XA540                           | 52  |        |           |     |             |      |       |                 | M      | XDCSDA  | 01       | XDINAD  | 01     | 1                | DCF   | C3                  |                    | 29A                |                    |
| 03351         |        | XA540                           | 53  |        |           |     |             |      |       |                 |        | SPP     | 01       |         |        |                  | DCF   |                     |                    |                    |                    |
| 06232         |        | XA540                           | 54  |        | XA540     | 72  |             | 16B  | 9     |                 |        | SPI044  | 08       |         | 01     | 1                | DCF   | C6                  |                    | 30A                |                    |
| 13326         |        | XA540                           | 55  |        | XA547     | 55  |             | 16B  | 9     |                 | P      | XDINAD  | 06       | TINDBB4 | 04     | 1                | DCF   | C3                  |                    | 30B                | DEV INDICATOR TO   |
| 18738         |        | XA540                           | 55  |        |           |     |             |      |       |                 | J      | XDINAAX | 01       | XDINAD  | 00     | 1                | DCF   | C3                  |                    | 30B                | TINDBB4 BUSS       |
| 20730         |        | XA540                           | 56  |        |           |     |             |      |       |                 | M      | XDINAAX | 01       | XDINAAX | 00     | 1                | DCF   | C4                  |                    | 29B                |                    |
| 08139         |        | XA540                           | 57  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | C6                  |                    | 31A                |                    |
| 03358         |        | XA540                           | 58  |        |           |     |             |      |       |                 |        | GND     | 01       |         |        |                  | DCF   |                     |                    |                    |                    |
| 03371         |        | XA540                           | 59  |        |           |     |             |      |       |                 |        | SPP     | 01       |         |        |                  | DCF   |                     |                    |                    |                    |
| 08140         |        | XA540                           | 60  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | C5                  |                    | 31B                |                    |
| 08141         |        | XA540                           | 61  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | D7                  |                    | 33A                |                    |
| 01664         |        | XA540                           | 62  |        |           |     |             |      |       |                 |        | DNW     | 01       |         |        |                  | DCF   |                     |                    |                    |                    |
| 01665         |        | XA540                           | 63  |        |           |     |             |      |       |                 |        | DNW     | 01       |         |        |                  | DCF   |                     |                    |                    |                    |
| 01666         |        | XA540                           | 64  |        |           |     |             |      |       |                 |        | DNW     | 01       |         |        |                  | DCF   |                     |                    |                    |                    |
| 08142         |        | XA540                           | 65  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | D1                  |                    | 32B                |                    |
| 01667         |        | XA540                           | 66  |        |           |     |             |      |       |                 |        | DNW     | 01       |         |        |                  | DCF   |                     |                    |                    |                    |
| 03378         |        | XA540                           | 67  |        |           |     |             |      |       |                 |        | GND     | 01       |         |        |                  | DCF   |                     |                    |                    |                    |
| 08143         |        | XA540                           | 68  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | D8                  |                    | 34A                |                    |
| 08144         |        | XA540                           | 69  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | D2                  |                    | 33B                |                    |
| 05020         |        | XA540                           | 70  |        | XA534     | 70  |             | 16B  | 9     |                 |        | SPI005  | 17       |         | 01     | 1                | DCF   | D8                  |                    | 35A                |                    |
| 06138         |        | XA540                           | 71  |        | XA542     | 76  |             | 16B  | 9     |                 |        | SPI041  | 25       |         | 01     | 1                | DCF   | D2                  |                    | 34B                |                    |
| 06233         |        | XA540                           | 72  |        | XA542     | 69  |             | 16B  | 9     |                 |        | SPI044  | 09       |         | 01     | 1                | DCF   | D1                  |                    | 36A                |                    |
| 06004         |        | XA540                           | 73  |        | XA536     | 78  |             | 16B  | 9     |                 |        | SPI037  | 22       |         | 01     | 1                | DCF   | D4                  |                    | 35B                |                    |
| 05640         |        | XA540                           | 74  |        | XA534     | 74  |             | 16B  | 9     |                 |        | SPI026  | 32       |         | 01     | 1                | DCF   | D6                  |                    | 37A                |                    |
| 08145         |        | XA540                           | 75  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | D4                  |                    | 36B                |                    |
| 08146         |        | XA540                           | 76  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | D6                  |                    | 38A                |                    |
| 03385         |        | XA540                           | 77  |        |           |     |             |      |       |                 |        | SPP     | 01       |         |        |                  | DCF   |                     |                    |                    |                    |
| 08147         |        | XA540                           | 78  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | D3                  |                    | 37B                |                    |
| 03388         |        | XA540                           | 79  |        |           |     |             |      |       |                 |        | SPP     | 01       |         |        |                  | DCF   |                     |                    | 40B                |                    |
| 08148         |        | XA540                           | 80  |        |           |     |             |      |       |                 |        | SPO     | 01       |         | 00     | 1                | DCF   | D5                  |                    | 38B                |                    |
| 10845         |        | XA541                           | 01  |        | XA540     | 01  |             | 16B  | 9     |                 | P      | XD03AD  | 03       | TD13BB4 | 07     | 1                | DCF   | A7                  |                    | 02A                | IOC INPUT DATA LIN |
| 15017         |        | XA541                           | 01  |        |           |     |             |      |       |                 | J      | XD03AD  | 01       | XD03AD  | 00     | 1                | DCF   | A7                  |                    | 02A                | TD13BB4 BUSS       |
| 03237         |        | XA541                           | 02  |        |           |     |             |      |       |                 |        | GND     | 01       |         |        |                  | DCF   |                     |                    | 01A                |                    |
| 20742         |        | XA541                           | 03  |        |           |     |             |      |       |                 | M      | XD03AAX | 01       | XD03AAX | 00     | 1                | DCF   | A8                  |                    | 03A                |                    |
| 19021         |        | XA541                           | 04  |        | XA543     | 23  |             | 16B  | 9     |                 |        | XD03COX | 02       | XD03AAX | 01     | 1                | DCF   | A8                  |                    | 04A                |                    |
| 03242         |        | XA541                           | 05  |        |           |     |             |      |       |                 |        | SPP     | 01       |         |        |                  | DCF   |                     |                    |                    |                    |
| 18686         |        | XA541                           | 06  |        |           |     |             |      |       |                 |        | XDCSDA  | 04       | XD00AD  | 01     | 1                | DCF   | A1                  |                    | 05A                |                    |
| 20708         |        | XA541                           | 06  |        |           |     |             |      |       |                 | M      | XDCSDA  | 01       | XD02AD  | 01     | 1                | DCF   | A5                  |                    | 05A                |                    |
| CONNECTOR     | XA541  | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |             |      |       |                 |        |         |          |         |        |                  |       |                     |                    |                    |                    |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA541  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 422

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL | SEQ NO  | EQUATION | TERM    | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PL. LINE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO             |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------------|------|-------|-------|--------|---------|----------|---------|--------|------------------|-------|------------------------|--------------------|--------------------|--------------------|
|               | PREFIX | CONNECTOR | PIN                             | SEE | PREFIX | CONNECTOR | PIN | SEE | MULTI GROUP | CODE | COLOR | IDENT |        |         |          |         |        |                  |       |                        |                    |                    |                    |
| 20709         |        | XA541     | 06                              |     |        |           |     |     |             |      |       |       |        | XDCSDA  | 01       | XD01ADX | 01     | 1                | DCF   | A3                     |                    | 05A                |                    |
| 20710         |        | XA541     | 06                              |     |        |           |     |     |             |      |       |       |        | XDCSDA  | 01       | XD03ADX | 01     | 1                | DCF   | A7                     |                    | 05A                |                    |
| 10771         |        | XA541     | 07                              |     | XA547  | 07        |     |     | 16B         | 9    |       |       |        | XD00ADX | 10       | TD10BB4 | 07     | 1                | DCF   | A1                     |                    | 02B                | IOC INPUT DATA LIN |
| 18978         |        | XA541     | 07                              |     |        |           |     |     |             |      |       |       |        | XD00ADX | 01       | XD00ADX | 00     | 1                | DCF   | A1                     |                    | 02B                | TDI0BB4 BUSS       |
| 19008         |        | XA541     | 08                              |     | XA543  | 17        |     |     | 16B         | 9    |       |       |        | XD02COX | 02       | XD02A0X | 01     | 1                | DCF   | A6                     |                    | 08A                |                    |
| 20736         |        | XA541     | 09                              |     |        |           |     |     |             |      |       |       |        | XD00A0X | 01       | XD00A0X | 00     | 1                | DCF   | A2                     |                    | 03B                |                    |
| 20740         |        | XA541     | 10                              |     |        |           |     |     |             |      |       |       |        | XD02A0X | 01       | XD02A0X | 00     | 1                | DCF   | A6                     |                    | 07A                |                    |
| 18982         |        | XA541     | 11                              |     | XA543  | 03        |     |     | 16B         | 9    |       |       |        | XD00COX | 02       | XD00A0X | 01     | 1                | DCF   | A2                     |                    | 04B                |                    |
| 00727         |        | XA541     | 12                              |     |        |           |     |     |             |      |       |       |        | +5V     | 01       |         |        |                  | DCF   |                        |                    | 08A                |                    |
| 18995         |        | XA541     | 13                              |     | XA543  | 11        |     |     | 16B         | 9    |       |       |        | XD01COX | 02       | XD01A0X | 01     | 1                | DCF   | A4                     |                    | 05B                |                    |
| 10818         |        | XA541     | 14                              |     | XA540  | 14        |     |     | 16B         | 9    |       |       |        | XD02ADX | 03       | TDI2BB4 | 07     | 1                | DCF   | A5                     |                    | 08B                | IOC INPUT DATA LIN |
| 19004         |        | XA541     | 14                              |     |        |           |     |     |             |      |       |       |        | XD02ADX | 01       | XD02ADX | 00     | 1                | DCF   | A5                     |                    | 08B                | TDI2BB4 BUSS       |
| 20738         |        | XA541     | 15                              |     |        |           |     |     |             |      |       |       |        | XD01A0X | 01       | XD01A0X | 00     | 1                | DCF   | A4                     |                    | 06B                |                    |
| 03259         |        | XA541     | 16                              |     |        |           |     |     |             |      |       |       |        | GND     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 10791         |        | XA541     | 17                              |     | XA540  | 17        |     |     | 16B         | 9    |       |       |        | XD01ADX | 03       | TDI1BB4 | 07     | 1                | DCF   | A3                     |                    | 07B                | IOC INPUT DATA LIN |
| 18991         |        | XA541     | 17                              |     |        |           |     |     |             |      |       |       |        | XD01ADX | 01       | XD01ADX | 00     | 1                | DCF   | A3                     |                    | 07B                | TDI1BB4 BUSS       |
| 01668         |        | XA541     | 18                              |     |        |           |     |     |             |      |       |       |        | DNW     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 03264         |        | XA541     | 19                              |     |        |           |     |     |             |      |       |       |        | SPP     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 01669         |        | XA541     | 20                              |     |        |           |     |     |             |      |       |       |        | DNW     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 03287         |        | XA541     | 21                              |     |        |           |     |     |             |      |       |       |        | SPP     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 01670         |        | XA541     | 22                              |     |        |           |     |     |             |      |       |       |        | DNW     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 10953         |        | XA541     | 23                              |     | XA540  | 23        |     |     | 16B         | 9    |       |       |        | XD07ADX | 03       | TDI7BB4 | 07     | 1                | DCF   | B7                     |                    | 10A                | IOC INPUT DATA LIN |
| 19069         |        | XA541     | 23                              |     |        |           |     |     |             |      |       |       |        | XD07ADX | 01       | XD07ADX | 00     | 1                | DCF   | B7                     |                    | 10A                | TDI7BB4 BUSS       |
| 01671         |        | XA541     | 24                              |     |        |           |     |     |             |      |       |       |        | DNW     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 03282         |        | XA541     | 25                              |     |        |           |     |     |             |      |       |       |        | SPP     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 01672         |        | XA541     | 26                              |     |        |           |     |     |             |      |       |       |        | DNW     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 10879         |        | XA541     | 27                              |     | XA547  | 27        |     |     | 16B         | 9    |       |       |        | XD04ADX | 10       | TDI4BB4 | 07     | 1                | DCF   | B1                     |                    | 10B                | IOC INPUT DATA LIN |
| 19030         |        | XA541     | 27                              |     |        |           |     |     |             |      |       |       |        | XD04ADX | 01       | XD04ADX | 00     | 1                | DCF   | B1                     |                    | 10B                | TDI4BB4 BUSS       |
| 00728         |        | XA541     | 28                              |     |        |           |     |     |             |      |       |       |        | +5V     | 01       |         |        |                  | DCF   |                        |                    | 21B                |                    |
| 20744         |        | XA541     | 29                              |     |        |           |     |     |             |      |       |       |        | XD04A0X | 01       | XD04A0X | 00     | 1                | DCF   | B2                     |                    | 11B                |                    |
| 20750         |        | XA541     | 30                              |     |        |           |     |     |             |      |       |       |        | XD07A0X | 01       | XD07A0X | 00     | 1                | DCF   | B8                     |                    | 11A                |                    |
| 19034         |        | XA541     | 31                              |     | XA543  | 29        |     |     | 16B         | 9    |       |       |        | XD04COX | 02       | XD04A0X | 01     | 1                | DCF   | B2                     |                    | 12B                |                    |
| 03107         |        | XA541     | 32                              |     |        |           |     |     |             |      |       |       |        | GND     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 19047         |        | XA541     | 33                              |     | XA543  | 35        |     |     | 16B         | 9    |       |       |        | XD05COX | 02       | XD05A0X | 01     | 1                | DCF   | B4                     |                    | 13B                |                    |
| 19073         |        | XA541     | 34                              |     | XA543  | 47        |     |     | 16B         | 9    |       |       |        | XD07COX | 02       | XD07A0X | 01     | 1                | DCF   | B8                     |                    | 12A                |                    |
| 20746         |        | XA541     | 35                              |     |        |           |     |     |             |      |       |       |        | XD05A0X | 01       | XD05A0X | 00     | 1                | DCF   | B4                     |                    | 14B                |                    |
| 18685         |        | XA541     | 36                              |     | XA541  | 06        |     |     | 16B         | 9    |       |       |        | XDCSDA  | 03       | XD04ADX | 01     | 1                | DCF   | B1                     |                    | 13A                |                    |
| 20711         |        | XA541     | 36                              |     |        |           |     |     |             |      |       |       |        | XDCSDA  | 01       | XD07ADX | 01     | 1                | DCF   | B7                     |                    | 13A                |                    |
| 20712         |        | XA541     | 36                              |     |        |           |     |     |             |      |       |       |        | XDCSDA  | 01       | XD05A0X | 01     | 1                | DCF   | B3                     |                    | 13A                |                    |
| 20713         |        | XA541     | 36                              |     |        |           |     |     |             |      |       |       |        | XDCSDA  | 01       | XD06ADX | 01     | 1                | DCF   | B5                     |                    | 13A                |                    |
| 10899         |        | XA541     | 37                              |     | XA540  | 37        |     |     | 16B         | 9    |       |       |        | XD05ADX | 03       | TDI5BB4 | 07     | 1                | DCF   | B3                     |                    | 15B                | IOC INPUT DATA LIN |
| 19043         |        | XA541     | 37                              |     |        |           |     |     |             |      |       |       |        | XD05ADX | 01       | XD05ADX | 00     | 1                | DCF   | B3                     |                    | 15B                | TDI5BB4 BUSS       |
| 19060         |        | XA541     | 38                              |     | XA539  | 40        |     |     | 16B         | 9    |       |       |        | XD06COX | 02       | XD06A0X | 01     | 1                | DCF   | B6                     |                    | 14A                |                    |
| 03306         |        | XA541     | 39                              |     |        |           |     |     |             |      |       |       |        | SPP     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| 20748         |        | XA541     | 40                              |     |        |           |     |     |             |      |       |       |        | XD06A0X | 01       | XD06A0X | 00     | 1                | DCF   | B6                     |                    | 15A                |                    |
| 10933         |        | XA541     | 41                              |     | XA547  | 41        |     |     | 16B         | 9    |       |       |        | XD06ADX | 10       | TDI6BB4 | 07     | 1                | DCF   | B5                     |                    | 16A                | IOC INPUT DATA LIN |
| 19056         |        | XA541     | 41                              |     |        |           |     |     |             |      |       |       |        | XD06ADX | 01       | XD06ADX | 00     | 1                | DCF   | B5                     |                    | 16A                | TDI6BB4 BUSS       |
| 03318         |        | XA541     | 42                              |     |        |           |     |     |             |      |       |       |        | SPP     | 01       |         |        |                  | DCF   |                        |                    | 20B                |                    |
| 08149         |        | XA541     | 43                              |     |        |           |     |     |             |      |       |       |        | SPO     | 01       |         |        |                  | DCF   | C7                     |                    | 25A                |                    |
| 03334         |        | XA541     | 44                              |     |        |           |     |     |             |      |       |       |        | GND     | 01       |         |        |                  | DCF   |                        |                    |                    |                    |
| CONNECTOR     |        | XA541     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |             |      |       |       |        |         |          |         |        |                  |       |                        |                    |                    |                    |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA541  
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| RECORD NUMBER | FROM   |           |                                 |        | TO     |           |     |        | WIRE        |      |       |       | TEST POINT | SIGNAL   | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GND | LOAD OF POWER PLANE | TEST POINTS AND DR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|--------|-----------|-----|--------|-------------|------|-------|-------|------------|----------|--------|----------|------|--------|------------------|-----|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | SH. TC | PREFIX | CONNECTOR | PIN | SH. TC | MULTI GROUP | CODE | COLOR | IDENT |            |          |        |          |      |        |                  |     |                     |                    |                    |        |
| 03329         | XA541  | 45        |                                 |        |        |           |     |        |             |      |       |       | P          | SPP      | 01     |          |      |        |                  |     |                     | 27A                |                    |        |
| 15397         | XA541  | 46        |                                 |        |        |           |     |        |             |      |       |       | J          | XDREADX  | 03     | TRQ5BB4  | 01   | 1      | DCF              | C1  |                     | 25B                | IDE REQ TO IOC     |        |
| 18774         | XA541  | 46        |                                 |        |        |           |     |        |             |      |       |       | M          | XDREADX  | 01     | XDREADX  | 00   | 1      | DCF              | C1  |                     | 25B                | TRQ5BB4 BUSS       |        |
| 20731         | XA541  | 47        |                                 |        |        |           |     |        |             |      |       |       |            | XDREAOX  | 01     | XDREAOX  | 00   | 1      | DCF              | C2  |                     | 26B                |                    |        |
| 08150         | XA541  | 48        |                                 |        |        |           |     |        |             |      |       |       |            | SPO      | 01     |          |      |        | DCF              | C8  |                     | 26A                |                    |        |
| 18776         | XA541  | 49        |                                 |        |        |           |     |        |             |      |       |       |            | XDREAOX  | 02     | XDREAOX  | 01   | 1      | DCF              | C2  |                     | 27B                |                    |        |
| 05999         | XA541  | 50        |                                 |        | XA548  | 50        |     |        | 16B         | 9    |       |       |            | SPI037   | 17     |          |      |        | DCF              | C8  |                     | 28A                |                    |        |
| 06231         | XA541  | 51        |                                 |        | XA540  | 54        |     |        | 16B         | 9    |       |       |            | SPI044   | 07     |          |      |        | DCF              | C4  |                     | 28B                |                    |        |
| 18724         | XA541  | 52        |                                 |        | XA544  | 19        |     |        | 16B         | 9    |       |       |            | XDGNDA   | 06     | XDREADX  | 01   | 1      | DCF              | C1  |                     | 29A                |                    |        |
| 03352         | XA541  | 53        |                                 |        |        |           |     |        |             |      |       |       |            | SPP      | 01     |          |      |        | DCF              |     |                     |                    |                    |        |
| 06140         | XA541  | 54        |                                 |        | XA540  | 50        |     |        | 16B         | 9    |       |       |            | SPI041   | 27     |          |      |        | DCF              | C6  |                     | 30A                |                    |        |
| 08151         | XA541  | 55        |                                 |        |        |           |     |        |             |      |       |       |            | SPO      | 01     |          |      |        | DCF              | C3  |                     | 30B                |                    |        |
| 08152         | XA541  | 56        |                                 |        |        |           |     |        |             |      |       |       |            | SPO      | 01     |          |      |        | DCF              | C4  |                     | 29B                |                    |        |
| 08153         | XA541  | 57        |                                 |        |        |           |     |        |             |      |       |       |            | SPO      | 01     |          |      |        | DCF              | C6  |                     | 31A                |                    |        |
| 03357         | XA541  | 58        |                                 |        |        |           |     |        |             |      |       |       |            | GND      | 01     |          |      |        | DCF              |     |                     |                    |                    |        |
| 18718         | XA541  | 59        |                                 |        |        |           |     |        |             |      |       |       |            | XDENDB4R | 02     |          |      |        | DCF              |     |                     |                    |                    |        |
| 08154         | XA541  | 60        |                                 |        |        |           |     |        |             |      |       |       |            | SPO      | 01     |          |      |        | DCF              | C5  |                     | 31B                |                    |        |
| 18711         | XA541  | 61        |                                 |        |        |           |     |        |             |      |       |       | J          | XDENC0X  | 01     | XDENC0X  | 00   | 1      | DCF              | D7  |                     | 33A                | XDENDB4 BUSS       |        |
| 18715         | XA541  | 61        |                                 |        | XA501  | 47        |     |        | 16B         | 9    |       |       | P          | XDENC0X  | 02     | XDENDB4  | 01   | 1      | DCF              | D7  |                     | 33A                | DEV ENABLE LINE    | C02    |
| 01673         | XA541  | 62        |                                 |        |        |           |     |        |             |      |       |       |            | DNW      | 01     |          |      |        | DCF              |     |                     |                    |                    |        |
| 01674         | XA541  | 63        |                                 |        |        |           |     |        |             |      |       |       |            | DNW      | 01     |          |      |        | DCF              |     |                     |                    |                    |        |
| 01675         | XA541  | 64        |                                 |        |        |           |     |        |             |      |       |       |            | DNW      | 01     |          |      |        | DCF              |     |                     |                    |                    |        |
| 18943         | XA541  | 65        |                                 |        | XA501  | 45        |     |        | 16B         | 9    |       |       | J          | XDR7CDX  | 01     | XDR7CDX  | 00   | 1      | DCF              | D1  |                     | 32B                | XDR7DB4 BUSS       |        |
| 18949         | XA541  | 65        |                                 |        | XA501  | 45        |     |        | 16B         | 9    |       |       | P          | XDR7CDX  | 02     | XDR7DB4  | 01   | 1      | DCF              | D1  |                     | 32B                |                    | C02    |
| 01676         | XA541  | 66        |                                 |        |        |           |     |        |             |      |       |       |            | DNW      | 01     |          |      |        | DCF              |     |                     |                    |                    |        |
| 18952         | XA541  | 67        |                                 |        |        |           |     |        |             |      |       |       |            | XDR7DB4R | 02     |          |      |        | DCF              |     |                     |                    |                    |        |
| 21317         | XA541  | 67        |                                 |        |        |           |     |        |             |      |       |       |            | GND      | 01     |          |      |        | DCF              |     |                     |                    |                    |        |
| 20729         | XA541  | 68        |                                 |        |        |           |     |        |             |      |       |       | M          | XDENC0X  | 01     | XDENC0X  | 00   | 1      | DCF              | D8  |                     | 34A                |                    |        |
| 18944         | XA541  | 69        |                                 |        | XA544  | 47        |     |        | 16B         | 9    |       |       |            | XDR7COX  | 01     | XDR7COX  | 00   | 1      | DCF              | D2  |                     | 33B                | DEV REQ REC. 7     |        |
| 18706         | XA541  | 70        |                                 |        | XA543  | 63        |     |        | 16B         | 9    |       |       |            | XDENA0   | 01     | XDENC0X  | 01   | 1      | DCF              | D8  |                     | 35A                |                    |        |
| 18720         | XA541  | 71        |                                 |        | XA539  | 51        |     |        | 16B         | 9    |       |       |            | XDGNDA   | 02     | XDR7COX  | 01   | 1      | DCF              | D2  |                     | 34B                |                    |        |
| 18961         | XA541  | 72        |                                 |        | XA543  | 60        |     |        | 16B         | 9    |       |       |            | XDSTBA   | 01     | XDR7CDX  | 01   | 1      | DCF              | D1  |                     | 36A                |                    |        |
| 20732         | XA541  | 72        |                                 |        |        |           |     |        |             |      |       |       | M          | XDSTBA   | 01     | XDINC0X  | 01   | 1      | DCF              | D3  |                     | 36A                |                    |        |
| 20733         | XA541  | 72        |                                 |        |        |           |     |        |             |      |       |       | M          | XDSTBA   | 01     | XDCMCDX  | 01   | 1      | DCF              | D5  |                     | 36A                |                    |        |
| 20734         | XA541  | 72        |                                 |        |        |           |     |        |             |      |       |       | M          | XDSTBA   | 01     | XDENC0X  | 01   | 1      | DCF              | D7  |                     | 36A                |                    |        |
| 18719         | XA541  | 73        |                                 |        | XA541  | 71        |     |        | 16B         | 9    |       |       |            | XDGNDA   | 01     | XDINC0X  | 01   | 1      | DCF              | D4  |                     | 35B                |                    |        |
| 18669         | XA541  | 74        |                                 |        |        |           |     |        |             |      |       |       |            | XDCMA0   | 02     | XDCMCOX  | 01   | 1      | DCF              | D6  |                     | 37A                |                    |        |
| 18740         | XA541  | 75        |                                 |        | XA540  | 51        |     |        | 16B         | 9    |       |       |            | XDINCOX  | 01     | XDINC0X  | 00   | 1      | DCF              | D4  |                     | 36B                | DEV INDICATOR REC. |        |
| 20706         | XA541  | 76        |                                 |        |        |           |     |        |             |      |       |       | M          | XDCMCOX  | 01     | XDCMCOX  | 00   | 1      | DCF              | D6  |                     | 38A                |                    |        |
| 18748         | XA541  | 77        |                                 |        |        |           |     |        |             |      |       |       |            | XDINDB4R | 02     |          |      |        | DCF              |     |                     |                    |                    |        |
| 18739         | XA541  | 78        |                                 |        |        |           |     |        |             |      |       |       | J          | XDINC0X  | 01     | XDINC0X  | 00   | 1      | DCF              | D3  |                     | 37B                | XDINDB4 BUSS       |        |
| 18745         | XA541  | 78        |                                 |        | XA501  | 51        |     |        | 16B         | 9    |       |       | P          | XDINC0X  | 02     | XDINDB4  | 01   | 1      | DCF              | D3  |                     | 37B                |                    | C02    |
| 18677         | XA541  | 79        |                                 |        |        |           |     |        |             |      |       |       |            | XDCMDB4R | 02     |          |      |        | DCF              |     |                     |                    |                    |        |
| 18670         | XA541  | 80        |                                 |        |        |           |     |        |             |      |       |       | J          | XDCMCDX  | 01     | XDCMCDX  | 00   | 1      | DCF              | D5  |                     | 38B                | XDCMDB4 BUSS       |        |
| 18673         | XA541  | 80        |                                 |        | XA545  | 37        |     |        | 16B         | 9    |       |       | P          | XDCMCDX  | 01     | XDCMDB4  | 01   | 1      | DCF              | D5  |                     | 38B                | DEV COMMAND LINE   |        |
| 18830         | XA542  | 01        |                                 |        | XA543  | 01        |     |        | 16B         | 9    |       |       |            | XDR10S   | 02     | XDR10R   | 01   | 1      | TT3              | A2  |                     | 02B                |                    |        |
| 03108         | XA542  | 02        |                                 |        |        |           |     |        |             |      |       |       |            | GND      | 01     |          |      |        | TT3              |     |                     | 01B                |                    |        |
| 18824         | XA542  | 03        |                                 |        |        |           |     |        |             |      |       |       |            | XDR1RA   | 02     | XDR10R   | 01   | 2      | TT3              | A2  |                     | 02A                |                    |        |
| CONNECTOR     |        | XA542     | CONTINUED ON THE NEXT PAGE **** |        |        |           |     |        |             |      |       |       |            |          |        |          |      |        |                  |     |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA542  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 424

| RECORD NUMBER                                     | FROM   |           |     | TO     |        |           | WIRE |         |             |      | SIGNAL | SEQ NO | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO          |
|---|--------|-----------|-----|--------|--------|-----------|------|---------|-------------|------|--------|--------|----------|--------|--------|------------------|-------|---------------------|--------------------|--------------------|-----------------|
|   | PREFIX | CONNECTOR | PIN | PIN NO | PREFIX | CONNECTOR | PIN  | WIRE NO | MULTI GROUP | CODE |        |        |          |        |        |                  |       |                     |                    |                    |                 |
| 18806   |        | XA542     | 04  |        |        |           |      |         |             |      |        | XDR00R | 02       | XDR00R | 00     | 1                | TT3   | A1                  |                    | 04A                |                 |
| 18759   |        | XA542     | 05  |        | XA542  | 10        |      |         |             | 16B  | 9      | XDMRCA | 01       | XDR10R | 01     | 3                | TT3   | A2                  |                    | 03B                |                 |
| 18808   |        | XA542     | 06  |        | XA543  | 06        |      |         |             | 16B  | 9      | XDR00S | 02       | XDR00R | 01     | 1                | TT3   | A1                  |                    | 05A                |                 |
| 18828   |        | XA542     | 07  |        |        |           |      |         |             |      |        | XDR10R | 02       | XDR10R | 00     | 1                | TT3   | A2                  |                    | 03A                |                 |
| 18802   |        | XA542     | 08  |        |        |           |      |         |             |      |        | XDR0RA | 02       | XDR00R | 01     | 2                | TT3   | A1                  |                    | 06A                |                 |
| 18803   |        | XA542     | 09  |        | XA544  | 03        |      |         |             | 16B  | 9      | XDR00A | 01       | XDRE10 | 01     | 1                | TT3   | A3                  |                    | 04B                |                 |
| 18760   |        | XA542     | 10  |        | XA542  | 18        |      |         |             | 16B  | 9      | XDMRCA | 02       | XDR00R | 01     | 3                | TT3   | A1                  |                    | 07A                |                 |
| 18825   |        | XA542     | 11  |        | XA544  | 01        |      |         |             | 16B  | 9      | XDR10A | 01       | XDRE10 | 01     | 2                | TT3   | A3                  |                    | 05B                |                 |
| 00729   |        | XA542     | 12  |        |        |           |      |         |             |      |        | +5V    | 01       |        |        |                  | TT3   |                     |                    |                    |                 |
| 18847   |        | XA542     | 13  |        | XA544  | 18        |      |         |             | 16B  | 9      | XDR20A | 01       | XDRE10 | 01     | 3                | TT3   | A3                  |                    | 06B                |                 |
| 18875   |        | XA542     | 14  |        | XA540  | 04        |      |         |             | 16B  | 9      | XDR30S | 03       | XDR30R | 01     | 1                | TT3   | B2                  |                    | 09A                |                 |
| 18779   |        | XA542     | 15  |        | XA544  | 27        |      |         |             | 16B  | 9      | XDRE10 | 01       | XDRE10 | 00     | 1                | TT3   | A3                  |                    | 07B                | DEV REQ 0+1+2   |
| 03109   |        | XA542     | 16  |        |        |           |      |         |             |      |        | GND    | 01       |        |        |                  | TT3   |                     |                    | 21B                |                 |
| 18868   |        | XA542     | 17  |        |        |           |      |         |             |      |        | XDR3RA | 02       | XDR30R | 01     | 2                | TT3   | B2                  |                    | 08B                |                 |
| 18761   |        | XA542     | 18  |        | XA542  | 26        |      |         |             | 16B  | 9      | XDMRCA | 03       | XDR30R | 01     | 3                | TT3   | B2                  |                    | 10A                |                 |
| 18872   |        | XA542     | 19  |        |        |           |      |         |             |      |        | XDR30R | 02       | XDR30R | 03     | 1                | TT3   | B2                  |                    | 09B                |                 |
| 18850   |        | XA542     | 20  |        |        |           |      |         |             |      |        | XDR20R | 02       | XDR20R | 00     | 1                | TT3   | B1                  |                    | 11A                |                 |
| 18869   |        | XA542     | 21  |        | XA544  | 14        |      |         |             | 16B  | 9      | XDR30A | 01       | XDRE20 | 01     | 1                | TT3   | B3                  |                    | 10B                |                 |
| 18852   |        | XA542     | 22  |        | XA543  | 22        |      |         |             | 16B  | 9      | XDR20S | 02       | XDR20R | 01     | 1                | TT3   | B1                  |                    | 12A                |                 |
| 18891   |        | XA542     | 23  |        | XA544  | 34        |      |         |             | 16B  | 9      | XDR40A | 01       | XDRE20 | 01     | 2                | TT3   | B3                  |                    | 11B                |                 |
| 18846   |        | XA542     | 24  |        |        |           |      |         |             |      |        | XDR2RA | 02       | XDR20R | 01     | 2                | TT3   | B1                  |                    | 13A                |                 |
| 18913   |        | XA542     | 25  |        | XA544  | 30        |      |         |             | 16B  | 9      | XDR50A | 01       | XDRE20 | 01     | 3                | TT3   | B3                  |                    | 12B                |                 |
| 18762   |        | XA542     | 26  |        | XA542  | 34        |      |         |             | 16B  | 9      | XDMRCA | 04       | XDR20R | 01     | 3                | TT3   | B1                  |                    | 14A                |                 |
| 18783   |        | XA542     | 27  |        | XA544  | 33        |      |         |             | 16B  | 9      | XDR20  | 01       | XDRE20 | 00     | 1                | TT3   | B3                  |                    | 13B                | DEV REQ 3+4+5   |
| 00730   |        | XA542     | 28  |        |        |           |      |         |             |      |        | +5V    | 01       |        |        |                  | TT3   |                     |                    |                    |                 |
| 18919   |        | XA542     | 29  |        | XA540  | 33        |      |         |             | 16B  | 9      | XDR50S | 03       | XDR50R | 01     | 1                | TT3   | C2                  |                    | 14B                |                 |
| 18912   |        | XA542     | 30  |        |        |           |      |         |             |      |        | XDR5RA | 02       | XDR50R | 01     | 2                | TT3   | C2                  |                    | 15A                |                 |
| 18916   |        | XA542     | 31  |        |        |           |      |         |             |      |        | XDR50R | 02       | XDR50R | 00     | 1                | TT3   | C2                  |                    | 15B                |                 |
| 03110   |        | XA542     | 32  |        |        |           |      |         |             |      |        | GND    | 01       |        |        |                  | TT3   |                     |                    | 27A                |                 |
| 18778   |        | XA542     | 33  |        |        |           |      |         |             |      |        | XDRE1A | 02       | XDRECO | 01     | 1                | TT3   | C3                  |                    | 16B                |                 |
| 18763   |        | XA542     | 34  |        | XA542  | 42        |      |         |             | 16B  | 9      | XDMRCA | 05       | XDR50R | 01     | 3                | TT3   | C2                  |                    | 16A                |                 |
| 18781   |        | XA542     | 35  |        | XA544  | 31        |      |         |             | 16B  | 9      | XDRE2A | 01       | XDRECO | 01     | 2                | TT3   | C3                  |                    | 17B                |                 |
| 18894   |        | XA542     | 36  |        |        |           |      |         |             |      |        | XDR40R | 02       | XDR40R | 00     | 1                | TT3   | C1                  |                    | 17A                |                 |
| 18785   |        | XA542     | 37  |        | XA544  | 42        |      |         |             | 16B  | 9      | XDR3A  | 01       | XDRECO | 01     | 3                | TT3   | C3                  |                    | 18B                |                 |
| 18896   |        | XA542     | 38  |        | XA543  | 38        |      |         |             | 16B  | 9      | XDR40S | 02       | XDR40R | 01     | 1                | TT3   | C1                  |                    | 18A                |                 |
| 18775   |        | XA542     | 39  |        | XA541  | 49        |      |         |             | 16B  | 9      | XDRECO | 01       | XDRECO | 00     | 1                | TT3   | C3                  |                    | 19B                | DEV OR D REQ    |
| 18890   |        | XA542     | 40  |        |        |           |      |         |             |      |        | XDR4RA | 02       | XDR40R | 01     | 2                | TT3   | C1                  |                    | 19A                |                 |
| 18959   |        | XA542     | 41  |        | XA540  | 34        |      |         |             | 16B  | 9      | XDR70S | 02       | XDR70R | 01     | 1                | TT3   | D2                  |                    | 22B                |                 |
| 18764   |        | XA542     | 42  |        | XA542  | 48        |      |         |             | 16B  | 9      | XDMRCA | 06       | XDR40R | 01     | 3                | TT3   | C1                  |                    | 20A                |                 |
| 18955   |        | XA542     | 43  |        | XA543  | 50        |      |         |             | 16B  | 9      | XDR70R | 01       | XDR70R | 00     | 1                | TT3   | D2                  |                    | 23B                |                 |
| 03111   |        | XA542     | 44  |        |        |           |      |         |             |      |        | GND    | 01       |        |        |                  | TT3   |                     |                    | 40A                |                 |
| 18737   |        | XA542     | 45  |        |        |           |      |         |             |      |        | XDICSO | 06       | XDCSDA | 01     | 1                | TT3   | D3                  |                    | 24B                |                 |
| 18954   |        | XA542     | 46  |        |        |           |      |         |             |      |        | XDR7RA | 02       | XDR70R | 01     | 2                | TT3   | D2                  |                    | 21A                |                 |
| 18731   |        | XA542     | 47  |        |        |           |      |         |             |      |        | XDICRO | 06       | XDCSDA | 01     | 2                | TT3   | D3                  |                    | 25B                |                 |
| 18765   |        | XA542     | 48  |        | XA542  | 56        |      |         |             | 16B  | 9      | XDMRCA | 07       | XDR70R | 01     | 3                | TT3   | D2                  |                    | 22A                |                 |
| 18750   |        | XA542     | 49  |        |        |           |      |         |             |      |        | XDINTA | 02       | XDCSDA | 01     | 3                | TT3   | D3                  |                    | 26B                |                 |
| 18937   |        | XA542     | 50  |        |        |           |      |         |             |      |        | XDR60R | 03       | XDR60R | 00     | 1                | TT3   | D1                  |                    | 23A                |                 |
| 18684   |        | XA542     | 51  |        | XA541  | 36        |      |         |             | 16B  | 9      | XDCSDA | 02       | XDCSDA | 00     | 1                | TT3   | D3                  |                    | 27B                | CH. SEL. INTER* |
| 18939   |        | XA542     | 52  |        | XA540  | 38        |      |         |             | 16B  | 9      | XDR60S | 01       | XDR60R | 01     | 1                | TT3   | D1                  |                    | 24A                |                 |
| 18736   |        | XA542     | 53  |        | XA542  | 45        |      |         |             | 16B  | 9      | XDICSO | 01       | XDCSEA | 01     | 1                | TT3   | E2                  |                    | 28B                |                 |
| CONNECTOR (XA542) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |           |      |         |             |      |        |        |          |        |        |                  |       |                     |                    |                    |                 |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA542  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 425

| RECORD NUMBER                                   | FROM   |           |     | TO     |           |     | WIRE  |             |      |       | SFC INST MESH | SIGNAL  | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD CP POWER PLANE | TEST POINTS ANCL OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------|-------------|------|-------|---------------|---------|--------|----------|------|------|------------------|-------|---------------------|---------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | SM PG | MULTI GROUP | CODE | COLOR |               |         |        |          |      |      |                  |       |                     |                     |                    |        |
| 18934   |        | XA542     | 54  |        |           |     |       |             |      |       |               | XDR6RA  | 02     | XDR6OR   | 01   | 2    | TT3              | D1    |                     | 29A                 |                    |        |
| 18689   |        | XA542     | 55  |        |           |     |       |             |      |       |               | XDCSEA  | 03     | XDCSEA   | 00   | 1    | TT3              | E2    |                     | 29B                 | CH.SEL.ENABLE      |        |
| 18766   |        | XA542     | 56  |        | XA543     | 72  |       |             | 16B  | 9     |               | XDMRCA  | 08     | XDR6OR   | 01   | 3    | TT3              | D1    |                     | 29A                 |                    |        |
| 18708   |        | XA542     | 57  |        | XA542     | 62  |       |             | 16B  | 9     |               | XDENB0  | 01     | XDMRDA   | 01   | 1    | TT3              | E3    |                     | 30B                 |                    |        |
| 03112   |        | XA542     | 58  |        |           |     |       |             |      |       |               | GND     | 01     |          |      |      | TT3              |       |                     | 40B                 |                    |        |
| 18679   |        | XA542     | 59  |        | XA544     | 68  |       |             | 16B  | 9     |               | XDCMDO  | 02     | XDMRDA   | 01   | 2    | TT3              | E3    |                     | 31B                 |                    |        |
| 18729   |        | XA542     | 60  |        | XA544     | 63  |       |             | 16B  | 9     |               | XDICR0  | 04     | XDCSEA   | 01   | 2    | TT3              | E2    |                     | 28A                 |                    |        |
| 06235   |        | XA542     | 61  |        | XA543     | 62  |       |             | 16B  | 9     |               | SPI044  | 11     | XDMRDA   | 01   | 3    | TT3              | E3    |                     | 32B                 |                    |        |
| 18709   |        | XA542     | 62  |        | XA544     | 57  |       |             | 16B  | 9     |               | XDENB0  | 02     | XDCSEA   | 01   | 3    | TT3              | E2    |                     | 29A                 |                    |        |
| 18769   |        | XA542     | 63  |        | XA543     | 61  |       |             | 16B  | 9     |               | XDMRDA  | 02     | XDMRDA   | 00   | 1    | TT3              | E3    |                     | 33B                 | DEV RESET          |        |
| 18705   |        | XA542     | 64  |        |           |     |       |             |      |       |               | XDCSSA  | 04     | XDCSSA   | 00   | 1    | TT3              | E1    |                     | 30A                 | CH.SEL.STROBE      |        |
| 18734   |        | XA542     | 65  |        | XA542     | 75  |       |             | 16B  | 9     |               | XDICSO  | 03     | XDCSIA   | 01   | 1    | TT3              | F2    |                     | 34B                 |                    |        |
| 18733   |        | XA542     | 66  |        | XA542     | 65  |       |             | 16B  | 9     |               | XDICSO  | 02     | XDCSSA   | 01   | 1    | TT3              | E1    |                     | 31A                 |                    |        |
| 03113   |        | XA542     | 67  |        |           |     |       |             |      |       |               | GND     | 01     |          |      |      | TT3              |       |                     |                     |                    |        |
| 18728   |        | XA542     | 68  |        | XA542     | 60  |       |             | 16B  | 9     |               | XDICR0  | 03     | XDCSSA   | 01   | 2    | TT3              | E1    |                     | 32A                 |                    |        |
| 06234   |        | XA542     | 69  |        | XA542     | 61  |       |             | 16B  | 9     |               | SPI044  | 10     |          | 01   | 1    | TT3              | F3    |                     | 35A                 |                    |        |
| 18964   |        | XA542     | 70  |        | XA543     | 64  |       |             | 16B  | 9     |               | XDSTB0  | 02     | XDCSSA   | 01   | 3    | TT3              | E1    |                     | 33A                 |                    |        |
| 18727   |        | XA542     | 71  |        | XA542     | 68  |       |             | 16B  | 9     |               | XDICR0  | 02     | XDCSIA   | 01   | 2    | TT3              | F2    |                     | 36A                 |                    |        |
| 18753   |        | XA542     | 72  |        |           |     |       |             |      |       |               | XDINT0  | 03     | XDCSIA   | 01   | 3    | TT3              | F2    |                     | 34A                 |                    |        |
| 18682   |        | XA542     | 73  |        |           |     |       |             |      |       |               | XDCSCA  | 02     | XDCSCA   | 00   | 1    | TT3              | F1    |                     | 36B                 | CH.SEL.COMMAND     |        |
| 18701   |        | XA542     | 74  |        |           |     |       |             |      |       |               | XDCSIA  | 03     | XDCSIA   | 00   | 1    | TT3              | F2    |                     | 35B                 | CH.SEL.INTER       |        |
| 18735   |        | XA542     | 75  |        | XA542     | 53  |       |             | 16B  | 9     |               | XDICSO  | 04     | XDCSCA   | 01   | 1    | TT3              | F1    |                     | 37B                 |                    |        |
| 06139   |        | XA542     | 76  |        | XA541     | 54  |       |             | 16B  | 9     |               | SPI041  | 26     |          | 01   | 2    | TT3              | F3    |                     | 37A                 |                    |        |
| 18726   |        | XA542     | 77  |        | XA542     | 71  |       |             | 16B  | 9     |               | XDICR0  | 01     | XDCSCA   | 01   | 2    | TT3              | F1    |                     | 38B                 |                    |        |
| 06003   |        | XA542     | 78  |        | XA540     | 73  |       |             | 16B  | 9     |               | SPI037  | 21     |          | 01   | 3    | TT3              | F3    |                     | 38A                 |                    |        |
| 18678   |        | XA542     | 79  |        | XA542     | 59  |       |             | 16B  | 9     |               | XDCMDO  | 01     | XDCSCA   | 01   | 3    | TT3              | F1    |                     | 39B                 |                    |        |
| 08155   |        | XA542     | 80  |        |           |     |       |             |      |       |               | SPO     | 01     |          | 00   | 1    | TT3              | F3    |                     | 39A                 |                    |        |
| 18831   |        | XA543     | 01  |        | XA544     | 05  |       |             | 16B  | 9     |               | XDR10S  | 03     | XDR10S   | 00   | 1    | TQ2              | A2    |                     | 02B                 | DEV REQ 1          |        |
| 03114   |        | XA543     | 02  |        |           |     |       |             |      |       |               | GND     | 01     |          |      |      | TQ2              |       |                     | 01A                 |                    |        |
| 18983   |        | XA543     | 03  |        |           |     |       |             |      |       |               | XD00COX | 03     | XDR0RA   | 01   | 1    | TQ2              | A3    |                     | 02A                 |                    |        |
| 18811   |        | XA543     | 04  |        | XA544     | 08  |       |             | 16B  | 9     |               | XDR1CA  | 01     | XDR10S   | 01   | 1    | TQ2              | A2    |                     | 04A                 |                    |        |
| 18827   |        | XA543     | 05  |        | XA542     | 07  |       |             | 16B  | 9     |               | XDR1OR  | 01     | XDR10S   | 01   | 2    | TQ2              | A2    |                     | 03B                 |                    |        |
| 18809   |        | XA543     | 06  |        | XA544     | 04  |       |             | 16B  | 9     |               | XDR00S  | 03     | XDR00S   | 00   | 1    | TQ2              | A1    |                     | 05A                 | DEV REQ 0          |        |
| 18690   |        | XA543     | 07  |        | XA543     | 13  |       |             | 16B  | 9     |               | XDCSE0  | 01     | XDR0RA   | 01   | 2    | TQ2              | A3    |                     | 03A                 |                    |        |
| 18789   |        | XA543     | 08  |        | XA544     | 13  |       |             | 16B  | 9     |               | XDR0CA  | 01     | XDR00S   | 01   | 1    | TQ2              | A1    |                     | 06A                 |                    |        |
| 18801   |        | XA543     | 09  |        | XA542     | 08  |       |             | 16B  | 9     |               | XDR0RA  | 01     | XDR0RA   | 00   | 1    | TQ2              | A3    |                     | 04B                 |                    |        |
| 18805   |        | XA543     | 10  |        | XA542     | 04  |       |             | 16B  | 9     |               | XDR0OR  | 01     | XDR00S   | 01   | 2    | TQ2              | A1    |                     | 07A                 |                    |        |
| 18996   |        | XA543     | 11  |        |           |     |       |             |      |       |               | XD01COX | 03     | XDR1RA   | 01   | 1    | TQ2              | A4    |                     | 05B                 |                    |        |
| 00731   |        | XA543     | 12  |        |           |     |       |             |      |       |               | +5V     | 01     |          |      |      | TQ2              |       |                     |                     |                    |        |
| 18691   |        | XA543     | 13  |        | XA543     | 19  |       |             | 16B  | 9     |               | XDCSE0  | 02     | XDR1RA   | 01   | 2    | TQ2              | A4    |                     | 06B                 |                    |        |
| 18874   |        | XA543     | 14  |        | XA542     | 14  |       |             | 16B  | 9     |               | XDR30S  | 02     | XDR30S   | 00   | 1    | TQ2              | B2    |                     | 09A                 | DEV REQ 3          |        |
| 18823   |        | XA543     | 15  |        | XA542     | 03  |       |             | 16B  | 9     |               | XDR1RA  | 01     | XDR1RA   | 00   | 1    | TQ2              | A4    |                     | 07B                 |                    |        |
| 03115   |        | XA543     | 16  |        |           |     |       |             |      |       |               | GND     | 01     |          |      |      | TQ2              |       |                     | 01B                 |                    |        |
| 19009   |        | XA543     | 17  |        |           |     |       |             |      |       |               | XD02COX | 03     | XDR2RA   | 01   | 1    | TQ2              | B3    |                     | 08B                 |                    |        |
| 18855   |        | XA543     | 18  |        | XA544     | 25  |       |             | 16B  | 9     |               | XDR3CA  | 01     | XDR30S   | 01   | 1    | TQ2              | B2    |                     | 10A                 |                    |        |
| 18692   |        | XA543     | 19  |        | XA543     | 25  |       |             | 16B  | 9     |               | XDCSE0  | 03     | XDR2RA   | 01   | 2    | TQ2              | B3    |                     | 09B                 |                    |        |
| 18871   |        | XA543     | 20  |        | XA542     | 19  |       |             | 16B  | 9     |               | XDR3OR  | 01     | XDR30S   | 01   | 2    | TQ2              | B2    |                     | 11A                 |                    |        |
| 18845   |        | XA543     | 21  |        | XA542     | 24  |       |             | 16B  | 9     |               | XDR2RA  | 01     | XDR2RA   | 00   | 1    | TQ2              | B3    |                     | 10B                 |                    |        |
| CONNECTOR XA543 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |       |             |      |       |               |         |        |          |      |      |                  |       |                     |                     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA543  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 426

| RECORD NUMBER                                   | FROM   |           |     | TO     |        |           | WIRE |       |             |      | SIGNAL | SEQ NO  | EQUATION | TERM   | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PL LINE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|--------|-----------|------|-------|-------------|------|--------|---------|----------|--------|--------|------------------|-------|-----------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PIN 12 | PREFIX | CONNECTOR | PIN  | SH 10 | MULTI GROUP | CODE |        |         |          |        |        |                  |       |                       |                    |                    |        |
| 18853   |        | XA543     | 22  |        | XA544  | 20        |      |       | 168         | 9    |        | XDR20S  | 03       | XDR20S | 00     | 1                | TQ2   | B1                    | 12A                | DEV REQ 2          |        |
| 19022   |        | XA543     | 23  |        |        |           |      |       |             |      |        | XD03COX | 03       | XDR3RA | 01     | 1                | TQ2   | B4                    | 11B                |                    |        |
| 18833   |        | XA543     | 24  |        | XA544  | 24        |      |       | 168         | 9    |        | XDR2CA  | 01       | XDR20S | 01     | 1                | TQ2   | B1                    | 13A                |                    |        |
| 18693   |        | XA543     | 25  |        | XA543  | 31        |      |       | 168         | 9    |        | XDCSEO  | 04       | XDR3RA | 01     | 2                | TQ2   | B4                    | 12B                |                    |        |
| 18849   |        | XA543     | 26  |        | XA542  | 20        |      |       | 168         | 9    |        | XDR20R  | 01       | XDR20S | 01     | 2                | TQ2   | B1                    | 14A                |                    |        |
| 18867   |        | XA543     | 27  |        | XA542  | 17        |      |       | 168         | 9    |        | XDR3RA  | 01       | XDR3RA | 00     | 1                | TQ2   | B4                    | 13B                |                    |        |
| 00732   |        | XA543     | 28  |        |        |           |      |       |             |      |        | +5V     | 01       |        |        |                  | TQ2   |                       |                    |                    |        |
| 19035   |        | XA543     | 29  |        |        |           |      |       |             |      |        | XD04COX | 03       | XDR4RA | 01     | 1                | TQ2   | C3                    | 14B                |                    |        |
| 18918   |        | XA543     | 30  |        | XA542  | 29        |      |       | 168         | 9    |        | XDR50S  | 02       | XDR50S | 00     | 1                | TQ2   | C2                    | 15A                | DEV REQ 5          |        |
| 18694   |        | XA543     | 31  |        | XA543  | 37        |      |       | 168         | 9    |        | XDCSEO  | 05       | XDR4RA | 01     | 2                | TQ2   | C3                    | 15B                |                    |        |
| 03116   |        | XA543     | 32  |        |        |           |      |       |             |      |        | GND     | 01       |        |        |                  | TQ2   |                       | 20B                |                    |        |
| 18889   |        | XA543     | 33  |        | XA542  | 40        |      |       | 168         | 9    |        | XDR4RA  | 01       | XDR4RA | 00     | 1                | TQ2   | C3                    | 16B                |                    |        |
| 18899   |        | XA543     | 34  |        | XA544  | 37        |      |       | 168         | 9    |        | XDR5CA  | 01       | XDR50S | 01     | 1                | TQ2   | C2                    | 16A                |                    |        |
| 19048   |        | XA543     | 35  |        |        |           |      |       |             |      |        | XD05COX | 03       | XDR5RA | 01     | 1                | TQ2   | C4                    | 17B                |                    |        |
| 18915   |        | XA543     | 36  |        | XA542  | 31        |      |       | 168         | 9    |        | XDR50R  | 01       | XDR50S | 01     | 2                | TQ2   | C2                    | 17A                |                    |        |
| 18695   |        | XA543     | 37  |        | XA543  | 43        |      |       | 168         | 9    |        | XDCSEO  | 06       | XDR5RA | 01     | 2                | TQ2   | C4                    | 18B                |                    |        |
| 18897   |        | XA543     | 38  |        | XA544  | 36        |      |       | 168         | 9    |        | XDR40S  | 03       | XDR40S | 00     | 1                | TQ2   | C1                    | 18A                | DEV REQ 4          |        |
| 18911   |        | XA543     | 39  |        | XA542  | 30        |      |       | 168         | 9    |        | XDR5RA  | 01       | XDR5RA | 00     | 1                | TQ2   | C4                    | 19B                |                    |        |
| 18877   |        | XA543     | 40  |        | XA544  | 40        |      |       | 168         | 9    |        | XDR4CA  | 01       | XDR40S | 01     | 1                | TQ2   | C1                    | 19A                |                    |        |
| 19059   |        | XA543     | 41  |        | XA541  | 38        |      |       | 168         | 9    |        | XD06COX | 01       | XDR6RA | 01     | 1                | TQ2   | D3                    | 22B                |                    |        |
| 18893   |        | XA543     | 42  |        | XA542  | 36        |      |       | 168         | 9    |        | XDR40R  | 01       | XDR40S | 01     | 2                | TQ2   | C1                    | 20A                |                    |        |
| 18696   |        | XA543     | 43  |        | XA543  | 49        |      |       | 168         | 9    |        | XDCSEO  | 07       | XDR6RA | 01     | 2                | TQ2   | D3                    | 23B                |                    |        |
| 03117   |        | XA543     | 44  |        |        |           |      |       |             |      |        | GND     | 01       |        |        |                  | TQ2   |                       | 21B                |                    |        |
| 18933   |        | XA543     | 45  |        | XA542  | 54        |      |       | 168         | 9    |        | XDR6RA  | 01       | XDR6RA | 00     | 1                | TQ2   | D3                    | 24B                |                    |        |
| 18958   |        | XA543     | 46  |        | XA542  | 41        |      |       | 168         | 9    |        | XDR70S  | 01       | XDR70S | 00     | 1                | TQ2   | D2                    | 21A                | DEV REQ 7          |        |
| 19074   |        | XA543     | 47  |        |        |           |      |       |             |      |        | XD07COX | 03       | XDR7RA | 01     | 1                | TQ2   | D4                    | 25B                |                    |        |
| 18942   |        | XA543     | 48  |        |        |           |      |       |             |      |        | XDR7CA  | 02       | XDR70S | 01     | 1                | TQ2   | D2                    | 22A                |                    |        |
| 18697   |        | XA543     | 49  |        | XA544  | 48        |      |       | 168         | 9    |        | XDCSEO  | 08       | XDR7RA | 01     | 2                | TQ2   | D4                    | 26B                |                    |        |
| 18956   |        | XA543     | 50  |        | XA543  | 70        |      |       | 168         | 9    |        | XDR70R  | 02       | XDR70S | 01     | 2                | TQ2   | D2                    | 23A                |                    |        |
| 18553   |        | XA543     | 51  |        | XA542  | 46        |      |       | 168         | 9    |        | XDR7RA  | 01       | XDR7RA | 00     | 1                | TQ2   | D4                    | 27B                |                    |        |
| 18938   |        | XA543     | 52  |        | XA542  | 52        |      |       | 168         | 9    |        | XDR60S  | 01       | XDR60S | 00     | 1                | TQ2   | D1                    | 24A                | DEV REQ 6          |        |
| 18752   |        | XA543     | 53  |        | XA542  | 72        |      |       | 168         | 9    |        | XDINT0  | 02       | XDINTA | 01     | 1                | TQ2   | E3                    | 28B                |                    |        |
| 18921   |        | XA543     | 54  |        | XA544  | 54        |      |       | 168         | 9    |        | XDR6CA  | 01       | XDR60S | 01     | 1                | TQ2   | D1                    | 25A                |                    |        |
| 06230   |        | XA543     | 55  |        | XA541  | 51        |      |       | 168         | 9    |        | SPI044  | 06       | XDINTA | 01     | 2                | TQ2   | E3                    | 29B                |                    |        |
| 18936   |        | XA543     | 56  |        | XA542  | 50        |      |       | 168         | 9    |        | XDR60R  | 02       | XDR60S | 01     | 2                | TQ2   | D1                    | 26A                |                    |        |
| 18749   |        | XA543     | 57  |        | XA542  | 49        |      |       | 168         | 9    |        | XDINTA  | 01       | XDINTA | 00     | 1                | TQ2   | E3                    | 30B                |                    |        |
| 03118   |        | XA543     | 58  |        |        |           |      |       |             |      |        | GND     | 01       |        |        |                  | TQ2   |                       | 27A                |                    |        |
| 18688   |        | XA543     | 59  |        | XA542  | 55        |      |       | 168         | 9    |        | XDCSEA  | 02       | XDENAO | 01     | 1                | TQ2   | E4                    | 31B                |                    |        |
| 18962   |        | XA543     | 60  |        |        |           |      |       |             |      |        | XDSTBA  | 02       | XDSTBA | 00     | 1                | TQ2   | E2                    | 28A                |                    |        |
| 18770   |        | XA543     | 61  |        | XA544  | 41        |      |       | 168         | 9    |        | XDMRDA  | 03       | XDENAO | 01     | 2                | TQ2   | E4                    | 32B                |                    |        |
| 06236   |        | XA543     | 62  |        | XA544  | 69        |      |       | 168         | 9    |        | SPI044  | 12       | XDSTBA | 01     | 1                | TQ2   | E2                    | 29A                |                    |        |
| 18707   |        | XA543     | 63  |        |        |           |      |       |             |      |        | XDENAO  | 02       | XDENAO | 00     | 1                | TQ2   | E4                    | 33B                | DEV ENABLE         |        |
| 18965   |        | XA543     | 64  |        | XA544  | 56        |      |       | 168         | 9    |        | XDSTB0  | 03       | XDSTBA | 01     | 2                | TQ2   | E2                    | 30A                |                    |        |
| 06265   |        | XA543     | 65  |        | XA543  | 76        |      |       | 168         | 9    |        | SPI045  | 02       |        | 01     | 1                | TQ2   | F3                    | 34B                |                    |        |
| 18788   |        | XA543     | 66  |        |        |           |      |       |             |      |        | XDRE30  | 02       | XDRE30 | 00     | 1                | TQ2   | E1                    | 31A                | DEV REQ 6+7        |        |
| 03115   |        | XA543     | 67  |        |        |           |      |       |             |      |        | GND     | 01       |        |        |                  | TQ2   |                       | 40A                |                    |        |
| 18935   |        | XA543     | 68  |        | XA543  | 56        |      |       | 168         | 9    |        | XDR60R  | 01       | XDRE30 | 01     | 1                | TQ2   | E1                    | 32A                |                    |        |
| 08156   |        | XA543     | 69  |        |        |           |      |       |             |      |        | SPO     | 01       |        | 00     | 1                | TQ2   | F3                    | 35A                |                    |        |
| 18957   |        | XA543     | 70  |        |        |           |      |       |             |      |        | XDR70R  | 03       | XDRE30 | 01     | 2                | TQ2   | E1                    | 33A                |                    |        |
| 18772   |        | XA543     | 71  |        | XA544  | 46        |      |       | 168         | 9    |        | XDMRDO  | 01       | XDMRCA | 01     | 1                | TQ2   | F2                    | 36A                |                    |        |
| CONNECTOR XA543 CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |           |      |       |             |      |        |         |          |        |        |                  |       |                       |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA543  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 427

| RECORD NUMBER | FROM   |           |                                 |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO       |
|---------------|--------|-----------|---------------------------------|-----|--------|-----------|-----|-----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|---------------------|--------------------|--------------------|--------------|
|               | PREFIX | CONNECTOR | PIN                             | USE | PREFIX | CONNECTOR | PIN | USE | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |                     |                    |                    |              |
| 18767         |        | XA543     | 72                              |     |        |           |     |     |             |      |       |       | XDMRCA  | 09     | XDMRCA   | 00   | 1      | TQ2              | F2                  |                    | 34A                | ENB.CMD.STB. |
| 18963         |        | XA543     | 73                              |     | XA542  | 70        |     |     | 16B         | 9    |       |       | XDSTB0  | 01     | XDMRCA   | 01   | 2      | TQ2              | F2                  |                    | 36B                |              |
| 06240         |        | XA543     | 74                              |     | XA544  | 73        |     |     | 16B         | 9    |       |       | SPI044  | 16     |          | 01   | 2      | TQ2              | F3                  |                    | 35B                | DEV COMMAND  |
| 18668         |        | XA543     | 75                              |     | XA541  | 74        |     |     | 16B         | 9    |       |       | XDCMA0  | 01     | XDCMA0   | 03   | 1      | TQ2              | F1                  |                    | 37B                |              |
| 06266         |        | XA543     | 76                              |     | XA547  | 71        |     |     | 16B         | 9    |       |       | SPI045  | 03     |          | 01   | 1      | TQ2              | F4                  |                    | 37A                |              |
| 18768         |        | XA543     | 77                              |     | XA542  | 63        |     |     | 16B         | 9    |       |       | XDMRDA  | 01     | XDCMA0   | 01   | 1      | TQ2              | F1                  |                    | 38B                |              |
| 06239         |        | XA543     | 78                              |     | XA543  | 74        |     |     | 16B         | 9    |       |       | SPI044  | 15     |          | 01   | 2      | TQ2              | F4                  |                    | 38A                |              |
| 18681         |        | XA543     | 79                              |     | XA542  | 73        |     |     | 16B         | 9    |       |       | XDCSCA  | 01     | XDCMA0   | 01   | 2      | TQ2              | F1                  |                    | 39B                |              |
| 08157         |        | XA543     | 80                              |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | TQ2              | F4                  |                    | 39A                |              |
| 18826         |        | XA544     | 01                              |     |        |           |     |     |             |      |       |       | XDR10A  | 02     | XDR10A   | 00   | 1      | THI              | A4                  |                    | 02B                |              |
| 03120         |        | XA544     | 02                              |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | THI              |                     |                    | 01A                |              |
| 18804         |        | XA544     | 03                              |     |        |           |     |     |             |      |       |       | XDR00A  | 02     | XDR00A   | 00   | 1      | THI              | A3                  |                    | 03A                |              |
| 18810         |        | XA544     | 04                              |     |        |           |     |     |             |      |       |       | XDR00S  | 04     | XDR00A   | 01   | 1      | THI              | A3                  |                    | 02A                |              |
| 18832         |        | XA544     | 05                              |     |        |           |     |     |             |      |       |       | XDR10S  | 04     | XDR10A   | 01   | 1      | THI              | A4                  |                    | 03B                |              |
| 18815         |        | XA544     | 06                              |     |        |           |     |     |             |      |       |       | XDR1COX | 02     | XDR1CA   | 01   | 1      | THI              | A2                  |                    | 05A                |              |
| 08158         |        | XA544     | 07                              |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 03   | 1      | THI              | A5                  |                    | 04B                |              |
| 18812         |        | XA544     | 08                              |     |        |           |     |     |             |      |       |       | XDR1CA  | 02     | XDR1CA   | 00   | 1      | THI              | A2                  |                    | 04A                |              |
| 06226         |        | XA544     | 09                              |     | XA544  | 15        |     |     | 16B         | 9    |       |       | SPI044  | 02     |          | 01   | 1      | THI              | A5                  |                    | 05B                |              |
| 08159         |        | XA544     | 10                              |     |        |           |     |     |             |      |       |       | SPO     | 01     |          |      |        | THI              | A6                  |                    | 06B                |              |
| 18793         |        | XA544     | 11                              |     |        |           |     |     |             |      |       |       | XDR0COX | 02     | XDR0CA   | 01   | 1      | THI              | A1                  |                    | 07A                |              |
| 00733         |        | XA544     | 12                              |     |        |           |     |     |             |      |       |       | +5V     | 01     |          |      |        | THI              |                     |                    |                    |              |
| 18790         |        | XA544     | 13                              |     |        |           |     |     |             |      |       |       | XDR0CA  | 02     | XDR0CA   | 03   | 1      | THI              | A1                  |                    | 06A                |              |
| 18870         |        | XA544     | 14                              |     |        |           |     |     |             |      |       |       | XDR30A  | 02     | XDR30A   | 00   | 1      | THI              | B4                  |                    | 08B                |              |
| 06227         |        | XA544     | 15                              |     | XA544  | 45        |     |     | 16B         | 9    |       |       | SPI044  | 03     |          | 01   | 1      | THI              | A6                  |                    | 07B                |              |
| 03121         |        | XA544     | 16                              |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | THI              |                     |                    | 20B                |              |
| 18873         |        | XA544     | 17                              |     | XA543  | 14        |     |     | 16B         | 9    |       |       | XDR30S  | 01     | XDR30A   | 01   | 1      | THI              | B4                  |                    | 09B                |              |
| 18848         |        | XA544     | 18                              |     |        |           |     |     |             |      |       |       | XDR20A  | 02     | XDR20A   | 00   | 1      | THI              | B3                  |                    | 09A                |              |
| 18725         |        | XA544     | 19                              |     |        |           |     |     |             |      |       |       | XDGND   | 07     | XDGND    | 00   | 1      | THI              | B5                  |                    | 10B                |              |
| 18854         |        | XA544     | 20                              |     |        |           |     |     |             |      |       |       | XDR20S  | 04     | XDR20A   | 01   | 1      | THI              | B3                  |                    | 10A                |              |
| 06295         |        | XA544     | 21                              |     | XA551  | 21        |     |     | 16B         | 9    |       |       | SPI301  | 12     | XDGND    | 01   | 1      | THI              | B5                  |                    | 11B                | C13          |
| 18837         |        | XA544     | 22                              |     |        |           |     |     |             |      |       |       | XDR2COX | 02     | XDR2CA   | 01   | 1      | THI              | B1                  |                    | 14A                |              |
| 18859         |        | XA544     | 23                              |     |        |           |     |     |             |      |       |       | XDR3COX | 02     | XDR3CA   | 01   | 1      | THI              | B2                  |                    | 12A                |              |
| 18834         |        | XA544     | 24                              |     |        |           |     |     |             |      |       |       | XDR2CA  | 02     | XDR2CA   | 00   | 1      | THI              | B1                  |                    | 13A                |              |
| 18856         |        | XA544     | 25                              |     |        |           |     |     |             |      |       |       | XDR3CA  | 02     | XDR3CA   | 00   | 1      | THI              | B2                  |                    | 11A                |              |
| 18777         |        | XA544     | 26                              |     | XA542  | 33        |     |     | 16B         | 9    |       |       | XDR1A   | 01     | XDR1A    | 00   | 1      | THI              | B6                  |                    | 12B                |              |
| 18780         |        | XA544     | 27                              |     |        |           |     |     |             |      |       |       | XDR10   | 02     | XDR1A    | 01   | 1      | THI              | B6                  |                    | 13B                |              |
| 00734         |        | XA544     | 28                              |     |        |           |     |     |             |      |       |       | +5V     | 01     |          |      |        | THI              |                     |                    |                    |              |
| 18917         |        | XA544     | 29                              |     | XA543  | 30        |     |     | 16B         | 9    |       |       | XDR50S  | 01     | XDR50A   | 01   | 1      | THI              | C4                  |                    | 15B                |              |
| 18914         |        | XA544     | 30                              |     |        |           |     |     |             |      |       |       | XDR50A  | 02     | XDR50A   | 00   | 1      | THI              | C4                  |                    | 14B                |              |
| 18782         |        | XA544     | 31                              |     |        |           |     |     |             |      |       |       | XDR2A   | 02     | XDR2A    | 00   | 1      | THI              | C5                  |                    | 16B                |              |
| 03122         |        | XA544     | 32                              |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | THI              |                     |                    | 21B                |              |
| 18784         |        | XA544     | 33                              |     |        |           |     |     |             |      |       |       | XDR20   | 02     | XDR2A    | 01   | 1      | THI              | C5                  |                    | 17B                |              |
| 18892         |        | XA544     | 34                              |     |        |           |     |     |             |      |       |       | XDR40A  | 02     | XDR40A   | 00   | 1      | THI              | C3                  |                    | 15A                |              |
| 18903         |        | XA544     | 35                              |     |        |           |     |     |             |      |       |       | XDR5COX | 02     | XDR5CA   | 01   | 1      | THI              | C2                  |                    | 18A                |              |
| 18898         |        | XA544     | 36                              |     |        |           |     |     |             |      |       |       | XDR40S  | 04     | XDR40A   | 01   | 1      | THI              | C3                  |                    | 16A                |              |
| 18900         |        | XA544     | 37                              |     |        |           |     |     |             |      |       |       | XDR5CA  | 02     | XDR5CA   | 00   | 1      | THI              | C2                  |                    | 17A                |              |
| 18881         |        | XA544     | 38                              |     |        |           |     |     |             |      |       |       | XDR4COX | 02     | XDR4CA   | 01   | 1      | THI              | C1                  |                    | 20A                |              |
| 18787         |        | XA544     | 39                              |     | XA543  | 66        |     |     | 16B         | 9    |       |       | XDR30   | 01     | XDR3A    | 01   | 1      | THI              | C6                  |                    | 19B                |              |
| CONNECTOR     |        | XA544     | CONTINUED ON THE NEXT PAGE **** |     |        |           |     |     |             |      |       |       |         |        |          |      |        |                  |                     |                    |                    |              |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA544  
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| RECORD NUMBER                                     | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |       |       | SIGNAL  | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|-------|-------|---------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | POS | PREFIX | CONNECTOR | PIN | POS | MULTI GROUP | CODE | COLOR | IDENT |         |        |          |      |        |                  |       |                     |                    |                    |        |
| 18878   |        | XA544     | 40  |     |        |           |     |     |             |      |       |       | XDR4CA  | 02     | XDR4CA   | 00   | 1      | THI              | C1    |                     | 19A                |                    |        |
| 18771   |        | XA544     | 41  |     |        |           |     |     |             |      |       |       | XDMRDA  | 04     | XDMRDO   | 01   | 1      | THI              | D4    |                     | 23B                |                    |        |
| 18786   |        | XA544     | 42  |     |        |           |     |     |             |      |       |       | XDR3A   | 02     | XDR3A    | 00   | 1      | THI              | C6    |                     | 18B                |                    |        |
| 08160   |        | XA544     | 43  |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | D5    |                     | 24B                |                    |        |
| 03123   |        | XA544     | 44  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     | 27A                |                    |        |
| 06228   |        | XA544     | 45  |     | XA544  | 51        |     |     |             | 16B  | 9     |       | SPI044  | 04     |          | 01   | 1      | THI              | D5    |                     | 25B                |                    |        |
| 18773   |        | XA544     | 46  |     |        |           |     |     |             |      |       |       | XDMRDO  | 02     | XDMRDO   | 00   | 1      | THI              | D4    |                     | 22B                |                    |        |
| 18945   |        | XA544     | 47  |     |        |           |     |     |             |      |       |       | XDR7COX | 02     | XDR7CA   | 01   | 1      | THI              | D2    |                     | 24A                |                    |        |
| 18698   |        | XA544     | 48  |     |        |           |     |     |             |      |       |       | XDCSE0  | 09     | XDCSE0   | 00   | 1      | THI              | D3    |                     | 21A                |                    |        |
| 18941   |        | XA544     | 49  |     | XA543  | 48        |     |     |             | 16B  | 9     |       | XDR7CA  | 01     | XDR7CA   | 00   | 1      | THI              | D2    |                     | 23A                |                    |        |
| 18687   |        | XA544     | 50  |     | XA543  | 59        |     |     |             | 16B  | 9     |       | XDCSE0  | 01     | XDCSE0   | 01   | 1      | THI              | D3    |                     | 22A                |                    |        |
| 06229   |        | XA544     | 51  |     | XA543  | 55        |     |     |             | 16B  | 9     |       | SPI044  | 05     |          | 01   | 1      | THI              | D6    |                     | 27B                |                    |        |
| 18925   |        | XA544     | 52  |     |        |           |     |     |             |      |       |       | XDR6COX | 02     | XDR6CA   | 01   | 1      | THI              | D1    |                     | 26A                |                    |        |
| 08161   |        | XA544     | 53  |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | D6    |                     | 26B                |                    |        |
| 18922   |        | XA544     | 54  |     |        |           |     |     |             |      |       |       | XDR6CA  | 02     | XDR6CA   | 00   | 1      | THI              | D1    |                     | 25A                |                    |        |
| 15670   |        | XA544     | 55  |     | XA538  | 55        |     |     |             | 16B  | 9     |       | TSTBCA  | 02     | XDSTB0   | 01   | 1      | THI              | E4    |                     | 29B                |                    |        |
| 18966   |        | XA544     | 56  |     |        |           |     |     |             |      |       |       | XDSTB0  | 04     | XDSTB0   | 00   | 1      | THI              | E4    |                     | 28B                | IOC STROBE         |        |
| 18710   |        | XA544     | 57  |     |        |           |     |     |             |      |       |       | XDENB0  | 03     | XDENB0   | 00   | 1      | THI              | E5    |                     | 30B                | IOC ENABLE         |        |
| 03124   |        | XA544     | 58  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     | 40A                |                    |        |
| 12516   |        | XA544     | 59  |     | XA538  | 59        |     |     |             | 16B  | 9     |       | TENACA  | 02     | XDENB0   | 01   | 1      | THI              | E5    |                     | 31B                |                    |        |
| 18751   |        | XA544     | 60  |     | XA543  | 53        |     |     |             | 16B  | 9     |       | XDINT0  | 01     | XDINT0   | 00   | 1      | THI              | E3    |                     | 28A                | IOC INTERROGATE    |        |
| 09929   |        | XA544     | 61  |     | XA538  | 61        |     |     |             | 16B  | 9     |       | TCSXMA  | 02     | XDICRO   | 01   | 1      | THI              | E2    |                     | 31A                |                    |        |
| 13394   |        | XA544     | 62  |     | XA538  | 62        |     |     |             | 16B  | 9     |       | TINTCA  | 02     | XDINT0   | 01   | 1      | THI              | E3    |                     | 29A                |                    |        |
| 18730   |        | XA544     | 63  |     | XA542  | 47        |     |     |             | 16B  | 9     |       | XDICRO  | 05     | XDICRO   | 00   | 1      | THI              | E2    |                     | 30A                | IOE ADRS           |        |
| 09996   |        | XA544     | 64  |     | XA441  | 45        |     |     |             | 16B  | 9     |       | TCS5AA  | 01     | XDICSO   | 01   | 1      | THI              | E1    |                     | 33A                |                    |        |
| 09752   |        | XA544     | 65  |     | XA551  | 65        |     |     |             | 16B  | 9     |       | TCM0CA  | 06     | XDCMDO   | 01   | 1      | THI              | E6    |                     | 33B                |                    |        |
| 18732   |        | XA544     | 66  |     | XA542  | 66        |     |     |             | 16B  | 9     |       | XDICSO  | 01     | XDICSO   | 00   | 1      | THI              | E1    |                     | 32A                | IOC CH.SEL         |        |
| 03125   |        | XA544     | 67  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | THI              |       |                     |                    |                    |        |
| 18680   |        | XA544     | 68  |     |        |           |     |     |             |      |       |       | XDCMDO  | 03     | XDCMDO   | 00   | 1      | THI              | E6    |                     | 32B                | IOC COMMAND        |        |
| 06237   |        | XA544     | 69  |     | XA544  | 79        |     |     |             | 16B  | 9     |       | SPI044  | 13     |          | 01   | 1      | THI              | F3    |                     | 35B                |                    |        |
| 08162   |        | XA544     | 70  |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | F3    |                     | 34B                |                    |        |
| 08163   |        | XA544     | 71  |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | F2    |                     | 36B                |                    |        |
| 08164   |        | XA544     | 72  |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | F4    |                     | 34A                |                    |        |
| 06241   |        | XA544     | 73  |     | XA544  | 75        |     |     |             | 16B  | 9     |       | SPI044  | 17     |          | 01   | 1      | THI              | F2    |                     | 37B                |                    |        |
| 06244   |        | XA544     | 74  |     | XA547  | 72        |     |     |             | 16B  | 9     |       | SPI044  | 20     |          | 01   | 1      | THI              | F4    |                     | 35A                |                    |        |
| 06242   |        | XA544     | 75  |     | XA544  | 76        |     |     |             | 16B  | 9     |       | SPI044  | 18     |          | 01   | 1      | THI              | F6    |                     | 39A                |                    |        |
| 06243   |        | XA544     | 76  |     | XA544  | 74        |     |     |             | 16B  | 9     |       | SPI044  | 19     |          | 01   | 1      | THI              | F5    |                     | 37A                |                    |        |
| 08165   |        | XA544     | 77  |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | F6    |                     | 38A                |                    |        |
| 08166   |        | XA544     | 78  |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | F5    |                     | 36A                |                    |        |
| 06238   |        | XA544     | 79  |     | XA543  | 78        |     |     |             | 16B  | 9     |       | SPI044  | 14     |          | 01   | 1      | THI              | F1    |                     | 39B                |                    |        |
| 08167   |        | XA544     | 80  |     |        |           |     |     |             |      |       |       | SPO     | 01     |          | 00   | 1      | THI              | F1    |                     | 38B                |                    |        |
| 01677   |        | XA545     | 01  |     |        |           |     |     |             |      |       |       | DNW     | 01     |          |      |        | RR4              |       |                     |                    |                    |        |
| 03126   |        | XA545     | 02  |     |        |           |     |     |             |      |       |       | GND     | 01     |          |      |        | RR4              |       |                     |                    |                    |        |
| 21383   |        | XA545     | 02  |     |        |           |     |     |             |      |       |       | G54502  | 06     |          |      |        | RR4              |       |                     |                    |                    |        |
| 00174   |        | XA545     | 03  |     | XA532  | 03        |     |     |             | 16B  | 9     |       | +5VDCF  | 755    |          |      |        | RR4              | AP    |                     |                    | 805                |        |
| 00175   |        | XA545     | 04  |     | XA545  | 03        |     |     |             | 16B  | 9     |       | +5VDCF  | 750    |          |      |        | RR4              | AP    |                     |                    | 805                |        |
| 19012   |        | XA545     | 05  |     | XA539  | 14        |     |     |             | 16B  | 9     |       | XD02DB4 | 01     |          |      |        | RR4              | A3    |                     |                    |                    |        |
| 03434   |        | XA545     | 06  |     | XA545  | 02        |     |     |             | 16B  | 9     |       | G54502  | 05     |          |      |        | RR4              | AC    |                     |                    |                    | 805    |
| CONNECTOR (XA545) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |             |      |       |       |         |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA545  
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| RECORD NUMBER                                     | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       | SIGNAL | SEG NO  | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS ANCHOR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|--------|---------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR |        |         |          |      |        |                  |       |                     |                    |                    |        |
| 19025   |        | XA545     | 07  |      | XA539  | 01        |     |      | 16B         | 9    |       |        | XD03DB4 | 01       |      |        | RR4              | A4    |                     |                    |                    |        |
| 18986   |        | XA545     | 08  |      | XA539  | 07        |     |      | 16B         | 9    |       |        | XD03DB4 | 01       |      |        | RR4              | A1    |                     |                    |                    |        |
| 19038   |        | XA545     | 09  |      | XA539  | 27        |     |      | 16B         | 9    |       |        | XD04DB4 | 01       |      |        | RR4              | A5    |                     |                    |                    |        |
| 18999   |        | XA545     | 10  |      | XA539  | 17        |     |      | 16B         | 9    |       |        | XD01DB4 | 01       |      |        | PR4              | A2    |                     |                    |                    |        |
| 01678   |        | XA545     | 11  |      |        |           |     |      |             |      |       |        | DNW     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 00735   |        | XA545     | 12  |      |        |           |     |      |             |      |       |        | +5V     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 00176   |        | XA545     | 13  |      | XA545  | 04        |     |      | 16B         | 9    |       |        | +5VDCF  | 745      |      |        | RR4              | BP    |                     |                    |                    | B05    |
| 00177   |        | XA545     | 14  |      | XA545  | 13        |     |      | 16B         | 9    |       |        | +5VDCF  | 740      |      |        | RR4              | BP    |                     |                    |                    | B05    |
| 03924   |        | XA545     | 15  |      |        |           |     |      |             |      |       |        | SPP     | 01       |      |        | RR4              |       |                     | KEYWAY             |                    | A01    |
| 03925   |        | XA545     | 16  |      |        |           |     |      |             |      |       |        | GND     | 01       |      |        | RR4              |       |                     | KEYWAY             |                    | A01    |
| 18973   |        | XA545     | 17  |      | XA539  | 46        |     |      | 16B         | 9    |       |        | XD0PDB4 | 01       |      |        | RR4              | B4    |                     |                    |                    |        |
| 03433   |        | XA545     | 18  |      | XA545  | 06        |     |      | 16B         | 9    |       |        | G54502  | 04       |      |        | RR4              | BC    |                     |                    |                    | B05    |
| 18796   |        | XA545     | 19  |      | XA539  | 55        |     |      | 16B         | 9    |       |        | XDR3DB4 | 01       |      |        | RR4              | B5    |                     |                    |                    |        |
| 19051   |        | XA545     | 20  |      | XA539  | 37        |     |      | 16B         | 9    |       |        | XD05DB4 | 01       |      |        | RR4              | B1    |                     |                    |                    |        |
| 00178   |        | XA545     | 21  |      | XA545  | 14        |     |      | 16B         | 9    |       |        | +5VDCF  | 735      |      |        | RR4              | CP    |                     |                    |                    | B05    |
| 00179   |        | XA545     | 22  |      | XA545  | 21        |     |      | 16B         | 9    |       |        | +5VDCF  | 730      |      |        | PR4              | CP    |                     |                    |                    | B05    |
| 18862   |        | XA545     | 23  |      | XA539  | 65        |     |      | 16B         | 9    |       |        | XDR3DB4 | 01       |      |        | RR4              | C3    |                     |                    |                    |        |
| 19077   |        | XA545     | 24  |      | XA539  | 23        |     |      | 16B         | 9    |       |        | XDR3DB4 | 01       |      |        | RR4              | B3    |                     |                    |                    |        |
| 18885   |        | XA545     | 25  |      | XA501  | 37        |     |      | 16B         | 9    |       |        | XDR4DB4 | 02       |      |        | RR4              | C4    |                     |                    |                    | A01    |
| 19064   |        | XA545     | 26  |      | XA539  | 41        |     |      | 16B         | 9    |       |        | XD06DB4 | 01       |      |        | RR4              | B2    |                     |                    |                    |        |
| 01679   |        | XA545     | 27  |      |        |           |     |      |             |      |       |        | DNW     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 00736   |        | XA545     | 28  |      |        |           |     |      |             |      |       |        | +5V     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 18907   |        | XA545     | 29  |      | XA501  | 39        |     |      | 16B         | 9    |       |        | XDR5DB4 | 02       |      |        | RR4              | C5    |                     |                    |                    | A01    |
| 03432   |        | XA545     | 30  |      | XA545  | 18        |     |      | 16B         | 9    |       |        | G54502  | 03       |      |        | RR4              | CC    |                     |                    |                    | B05    |
| 01680   |        | XA545     | 31  |      |        |           |     |      |             |      |       |        | DNW     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 03127   |        | XA545     | 32  |      |        |           |     |      |             |      |       |        | GND     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 21387   |        | XA545     | 32  |      | XA545  | 40        |     |      | 16B         | 9    |       |        | G54502  | 01       |      |        | RR4              |       |                     |                    |                    | B05    |
| 00180   |        | XA545     | 33  |      | XA545  | 22        |     |      | 16B         | 9    |       |        | +5VDCF  | 725      |      |        | RR4              | DP    |                     |                    |                    | B05    |
| 00181   |        | XA545     | 34  |      | XA545  | 33        |     |      | 16B         | 9    |       |        | +5VDCF  | 720      |      |        | RR4              | DP    |                     |                    |                    | B05    |
| 18744   |        | XA545     | 35  |      | XA541  | 78        |     |      | 16B         | 9    |       |        | XDINDB4 | 01       |      |        | RR4              | D3    |                     |                    |                    |        |
| 18818   |        | XA545     | 36  |      | XA539  | 60        |     |      | 16B         | 9    |       |        | XDR1DB4 | 01       |      |        | PR4              | C1    |                     |                    |                    |        |
| 18674   |        | XA545     | 37  |      | XA501  | 49        |     |      | 16B         | 9    |       |        | XDCMDB4 | 02       |      |        | PR4              | D4    |                     |                    |                    | A01    |
| 18840   |        | XA545     | 38  |      | XA539  | 43        |     |      | 16B         | 9    |       |        | XDR2DB4 | 01       |      |        | RR4              | C2    |                     |                    |                    |        |
| 18714   |        | XA545     | 39  |      | XA541  | 61        |     |      | 16B         | 9    |       |        | XDENDB4 | 01       |      |        | PR4              | D5    |                     |                    |                    |        |
| 03431   |        | XA545     | 40  |      | XA545  | 30        |     |      | 16B         | 9    |       |        | G54502  | 02       |      |        | RR4              | DC    |                     |                    |                    | B05    |
| 19452   |        | XA545     | 41  |      | XA546  | 27        |     |      | 16B         | 9    |       |        | XE04DB4 | 01       |      |        | RR4              | E5    |                     |                    |                    |        |
| 18928   |        | XA545     | 42  |      | XA539  | 61        |     |      | 16B         | 9    |       |        | XDR6DB4 | 01       |      |        | RR4              | D1    |                     |                    |                    |        |
| 01681   |        | XA545     | 43  |      |        |           |     |      |             |      |       |        | DNW     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 03128   |        | XA545     | 44  |      |        |           |     |      |             |      |       |        | GND     | 01       |      |        | RR4              |       |                     |                    |                    |        |
| 21365   |        | XA545     | 44  |      |        |           |     |      |             |      |       |        | G54544  | 06       |      |        | RR4              |       |                     |                    |                    | B05    |
| 19439   |        | XA545     | 45  |      | XA546  | 01        |     |      | 16B         | 9    |       |        | XE03DB4 | 01       |      |        | RR4              | E4    |                     |                    |                    |        |
| 18948   |        | XA545     | 46  |      | XA541  | 65        |     |      | 16B         | 9    |       |        | XDR7DB4 | 01       |      |        | RR4              | D2    |                     |                    |                    |        |
| 19426   |        | XA545     | 47  |      | XA546  | 14        |     |      | 16B         | 9    |       |        | XE02DB4 | 01       |      |        | RR4              | E3    |                     |                    |                    |        |
| 19413   |        | XA545     | 48  |      | XA546  | 17        |     |      | 16B         | 9    |       |        | XE01DB4 | 01       |      |        | RR4              | E2    |                     |                    |                    |        |
| 00182   |        | XA545     | 49  |      | XA545  | 34        |     |      | 16B         | 9    |       |        | +5VDCF  | 715      |      |        | RR4              | EP    |                     |                    |                    | B05    |
| 00183   |        | XA545     | 50  |      | XA545  | 49        |     |      | 16B         | 9    |       |        | +5VDCF  | 710      |      |        | RR4              | EP    |                     |                    |                    | B05    |
| 19211   |        | XA545     | 51  |      | XA502  | 25        |     |      | 16B         | 9    |       |        | XEK0DB4 | 02       |      |        | RR4              | F5    |                     |                    |                    | A01    |
| 19400   |        | XA545     | 52  |      | XA546  | 07        |     |      | 16B         | 9    |       |        | XE00DB4 | 01       |      |        | RR4              | E1    |                     |                    |                    |        |
| 19388   |        | XA545     | 53  |      | XA502  | 03        |     |      | 16B         | 9    |       |        | XE0PDB4 | 02       |      |        | RR4              | F4    |                     |                    |                    | A01    |
| 03430   |        | XA545     | 54  |      | XA545  | 44        |     |      | 16B         | 9    |       |        | G54544  | 05       |      |        | RR4              | EC    |                     |                    |                    | B05    |
| CONNECTOR (XA545) CONTINUED ON THE NEXT PAGE **** |        |           |     |      |        |           |     |      |             |      |       |        |         |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA545  
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| RECORD NUMBER | FROM   |                                 |     |       | TO     |           |     |       | WIRE        |      |       |       | SFC INST | SIGNAL | SFC NO  | EQUATION | TERM | FACTOR | CKT OP CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OF | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|---------------------------------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|----------|--------|---------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR                       | PIN | PLANE | PREFIX | CONNECTOR | PIN | PLANE | MULTI GROUP | CODE | COLOR | IDENT |          |        |         |          |      |        |                  |       |                     |                    |                    |        |
| 19491         |        | XA545                           | 55  |       | XA546  | 23        |     |       |             | 16B  | 9     |       | XE07DB4  | 01     |         |          |      | RR4    | F3               |       |                     |                    |                    |        |
| 19478         |        | XA545                           | 56  |       | XA546  | 41        |     |       |             | 16B  | 9     |       | XE06DB4  | 01     |         |          |      | RR4    | F2               |       |                     |                    |                    |        |
| 03926         |        | XA545                           | 57  |       |        |           |     |       |             |      |       |       | SPP      | 01     |         |          |      | RR4    |                  |       |                     |                    | KEYWAY             | A01    |
| 03927         |        | XA545                           | 58  |       |        |           |     |       |             |      |       |       | GND      | 01     |         |          |      | RR4    |                  |       |                     |                    | KEYWAY             | A01    |
| 00184         |        | XA545                           | 59  |       | XA545  | 50        |     |       |             | 16B  | 9     |       | +5VDCF   | 705    |         |          |      | RR4    | FP               |       |                     |                    |                    | B05    |
| 00185         |        | XA545                           | 60  |       | XA545  | 59        |     |       |             | 16B  | 9     |       | +5VDCF   | 700    |         |          |      | RR4    | FP               |       |                     |                    |                    | B05    |
| 19321         |        | XA545                           | 61  |       | XA502  | 39        |     |       |             | 16B  | 9     |       | XE05DB4  | 02     |         |          |      | RR4    | G5               |       |                     |                    |                    | A01    |
| 19465         |        | XA545                           | 62  |       | XA546  | 37        |     |       |             | 16B  | 9     |       | XE05DB4  | 01     |         |          |      | RR4    | F1               |       |                     |                    |                    |        |
| 19299         |        | XA545                           | 63  |       | XA502  | 37        |     |       |             | 16B  | 9     |       | XER4DB4  | 02     |         |          |      | RR4    | G4               |       |                     |                    |                    | A01    |
| 03429         |        | XA545                           | 64  |       | XA545  | 54        |     |       |             | 16B  | 9     |       | G54544   | 04     |         |          |      | RR4    | FC               |       |                     |                    |                    | B05    |
| 19277         |        | XA545                           | 65  |       | XA502  | 35        |     |       |             | 16B  | 9     |       | XER3DB4  | 02     |         |          |      | RR4    | G3               |       |                     |                    |                    | A01    |
| 19254         |        | XA545                           | 66  |       | XA546  | 43        |     |       |             | 16B  | 9     |       | XER2DB4  | 01     |         |          |      | RR4    | G2               |       |                     |                    |                    |        |
| 03129         |        | XA545                           | 67  |       |        |           |     |       |             |      |       |       | GND      | 01     |         |          |      | RR4    |                  |       |                     |                    |                    |        |
| 21384         |        | XA545                           | 67  |       | XA545  | 77        |     |       |             | 16B  | 9     |       | G54544   | 01     |         |          |      | RR4    |                  |       |                     |                    |                    | B05    |
| 01682         |        | XA545                           | 68  |       |        |           |     |       |             |      |       |       | DNW      | 01     |         |          |      | RR4    |                  |       |                     |                    |                    |        |
| 00186         |        | XA545                           | 69  |       | XA545  | 60        |     |       |             | 16B  | 9     |       | +5VDCF   | 695    |         |          |      | RR4    | GP               |       |                     |                    |                    | B05    |
| 00187         |        | XA545                           | 70  |       | XA545  | 69        |     |       |             | 16B  | 9     |       | +5VDCF   | 690    |         |          |      | RR4    | GP               |       |                     |                    |                    | B05    |
| 19129         |        | XA545                           | 71  |       | XA502  | 47        |     |       |             | 16B  | 9     |       | XEENDB4  | 02     |         |          |      | RR4    | H5               |       |                     |                    |                    | A01    |
| 19232         |        | XA545                           | 72  |       | XA546  | 60        |     |       |             | 16B  | 9     |       | XER1DB4  | 01     |         |          |      | RR4    | G1               |       |                     |                    |                    |        |
| 19088         |        | XA545                           | 73  |       | XA502  | 49        |     |       |             | 16B  | 9     |       | XECMDB4  | 02     |         |          |      | RR4    | H4               |       |                     |                    |                    | A01    |
| 03428         |        | XA545                           | 74  |       | XA545  | 64        |     |       |             | 16B  | 9     |       | G54544   | 03     |         |          |      | RR4    | GC               |       |                     |                    |                    | B05    |
| 19159         |        | XA545                           | 75  |       | XA502  | 51        |     |       |             | 16B  | 9     |       | XEINDB4  | 02     |         |          |      | RR4    | H3               |       |                     |                    |                    | A01    |
| 19363         |        | XA545                           | 76  |       | XA502  | 45        |     |       |             | 16B  | 9     |       | XER7DB4  | 02     |         |          |      | RR4    | H2               |       |                     |                    |                    | A01    |
| 03427         |        | XA545                           | 77  |       | XA545  | 74        |     |       |             | 16B  | 9     |       | G54544   | 02     |         |          |      | RR4    | HC               |       |                     |                    |                    | B05    |
| 19342         |        | XA545                           | 78  |       | XA546  | 61        |     |       |             | 16B  | 9     |       | XER6DB4  | 01     |         |          |      | RR4    | H1               |       |                     |                    |                    |        |
| 00188         |        | XA545                           | 79  |       | XA545  | 70        |     |       |             | 16B  | 9     |       | +5VDCF   | 685    |         |          |      | RR4    | HP               |       |                     |                    |                    | B05    |
| 00189         |        | XA545                           | 80  |       | XA545  | 79        |     |       |             | 16B  | 9     |       | +5VDCF   | 680    |         |          |      | RR4    | HP               |       |                     |                    |                    | B05    |
| 19433         |        | XA546                           | 01  |       |        |           |     |       |             |      |       | J     | XE03CDX  | 01     | XE03CDX | 00       | 1    | DCF    | A7               |       | 02A                 |                    | XE03DB4 BUSS       |        |
| 19440         |        | XA546                           | 01  |       | XA502  | 13        |     |       |             | 16B  | 9     | P     | XE03CDX  | 02     | XE03DB4 | 01       | 1    | DCF    | A7               |       | 02A                 |                    | DEV DATA LINE 3    | A01    |
| 19443         |        | XA546                           | 02  | 3     |        |           |     |       |             |      |       |       | XE03DB4R | 02     |         |          |      |        |                  |       | 01A                 |                    |                    |        |
| 21318         |        | XA546                           | 02  |       |        |           |     |       |             |      |       |       | GND      | 01     |         |          |      |        |                  |       |                     | 01A                |                    |        |
| 19434         |        | XA546                           | 03  |       | XA548  | 04        |     |       |             | 16B  | 9     |       | XE03COX  | 01     | XE03COX | 00       | 1    | DCF    | A8               |       | 03A                 |                    |                    |        |
| 11030         |        | XA546                           | 04  |       | XA445  | 15        |     |       |             | 16B  | 9     |       | TDL3A0   | 08     | XE03COX | 01       | 1    | DCF    | A8               |       | 04A                 |                    |                    |        |
| 19404         |        | XA546                           | 05  | 3     |        |           |     |       |             |      |       |       | XE00DB4R | 02     |         |          |      |        |                  |       |                     |                    |                    |        |
| 19119         |        | XA546                           | 06  |       |        |           |     |       |             |      |       | M     | XECSSA   | 04     | XE00CDX | 01       | 1    | DCF    | A1               |       | 05A                 |                    |                    |        |
| 20766         |        | XA546                           | 06  |       |        |           |     |       |             |      |       | M     | XECSSA   | 01     | XE01CDX | 01       | 1    | DCF    | A3               |       | 05A                 |                    |                    |        |
| 20767         |        | XA546                           | 06  |       |        |           |     |       |             |      |       | M     | XECSSA   | 01     | XE02CDX | 01       | 1    | DCF    | A5               |       | 05A                 |                    |                    |        |
| 20768         |        | XA546                           | 06  |       |        |           |     |       |             |      |       | M     | XECSSA   | 01     | XE03CDX | 01       | 1    | DCF    | A7               |       | 05A                 |                    |                    |        |
| 19394         |        | XA546                           | 07  |       |        |           |     |       |             |      |       | J     | XE00CDX  | 01     | XE00CDX | 00       | 1    | DCF    | A1               |       | 02P                 |                    | XE00DB4 BUSS       |        |
| 19401         |        | XA546                           | 07  |       | XA502  | 05        |     |       |             | 16B  | 9     | P     | XE00CDX  | 02     | XE00DB4 | 01       | 1    | DCF    | A1               |       | 02B                 |                    | DEV DATA LINE 3    | A01    |
| 11010         |        | XA546                           | 08  |       | XA539  | 08        |     |       |             | 16B  | 9     |       | TDL2A0   | 02     | XE02COX | 01       | 1    | DCF    | A6               |       | 06A                 |                    |                    |        |
| 19395         |        | XA546                           | 09  |       | XA548  | 11        |     |       |             | 16B  | 9     |       | XE00COX  | 01     | XE00COX | 00       | 1    | DCF    | A2               |       | 03B                 |                    |                    |        |
| 19421         |        | XA546                           | 10  |       | XA548  | 08        |     |       |             | 16B  | 9     |       | XE02COX  | 01     | XE02COX | 00       | 1    | DCF    | A6               |       | 07A                 |                    |                    |        |
| 10991         |        | XA546                           | 11  |       | XA443  | 52        |     |       |             | 16B  | 9     |       | TDLOA0   | 07     | XE00COX | 01       | 1    | DCF    | A2               |       | 04B                 |                    |                    |        |
| 00737         |        | XA546                           | 12  |       |        |           |     |       |             |      |       |       | +5V      | 01     |         |          |      |        |                  |       |                     | 08A                |                    |        |
| 11003         |        | XA546                           | 13  |       | XA445  | 04        |     |       |             | 16B  | 9     |       | TDL1A0   | 07     | XE01COX | 01       | 1    | DCF    | A4               |       | 05B                 |                    |                    |        |
| 19420         |        | XA546                           | 14  |       |        |           |     |       |             |      |       | J     | XE02CDX  | 01     | XE02CDX | 00       | 1    | DCF    | A5               |       | 08B                 |                    | XE02DB4 BUSS       |        |
| 19427         |        | XA546                           | 14  |       | XA502  | 09        |     |       |             | 16B  | 9     | P     | XE02CDX  | 02     | XE02DB4 | 01       | 1    | DCF    | A5               |       | 08B                 |                    | DEV DATA LINE 2    | A01    |
| CONNECTOR     | XA546  | CONTINUED ON THE NEXT PAGE **** |     |       |        |           |     |       |             |      |       |       |          |        |         |          |      |        |                  |       |                     |                    |                    |        |

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| RECORD NUMBER                                     | FROM   |           |     |     | TO     |           |     |     | WIRE        |      |         |          | SIGNAL   | EQ NO   | EQUATION | Z  | R   | C   | F  | S | P   | T                  | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|-----|--------|-----------|-----|-----|-------------|------|---------|----------|----------|---------|----------|----|-----|-----|----|---|-----|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PLT | PREFIX | CONNECTOR | PIN | PLT | MULTI GROUP | CODE | CON. IN | IDENT    |          |         |          |    |     |     |    |   |     |                    |                    |        |
| 19410   |        | XA546     | 15  |     |        |           |     |     |             |      |         |          | XE01C0X  | 03      | XE01C0X  | 00 | 1   | DCF | A4 |   |     | 06B                |                    |        |
| 19430   |        | XA546     | 16  | 3   |        |           |     |     |             |      |         | XE02DB4R | 02       |         |          |    |     | DCF |    |   |     |                    |                    |        |
| 21319   |        | XA546     | 16  |     |        |           |     |     |             |      |         | GND      | 01       |         |          |    |     | DCF |    |   |     |                    |                    |        |
| 19407   |        | XA546     | 17  |     |        |           |     |     |             |      |         | XE01C0X  | 01       | XE01C0X | 00       | 1  | DCF | A3  |    |   | 07R | XE01DB4 BUSS       |                    |        |
| 19414   |        | XA546     | 17  |     | XA502  | 07        |     |     | 16B         | 9    |         | P        | XE01C0X  | 02      | XE01DB4  | 01 | 1   | DCF | A3 |   | 07B | DEV DATA LINE 1    | A01                |        |
| 01683   |        | XA546     | 18  |     |        |           |     |     |             |      |         |          | DNW      | 01      |          |    |     | DCF |    |   |     |                    |                    |        |
| 19417   |        | XA546     | 19  | 3   |        |           |     |     |             |      |         |          | XE01DB4R | 02      |          |    |     | DCF |    |   |     |                    |                    |        |
| 01684   |        | XA546     | 20  |     |        |           |     |     |             |      |         |          | DNW      | 01      |          |    |     | DCF |    |   |     |                    |                    |        |
| 19495   |        | XA546     | 21  | 3   |        |           |     |     |             |      |         |          | XE07DB4R | 02      |          |    |     | DCF |    |   |     |                    |                    |        |
| 01685   |        | XA546     | 22  |     |        |           |     |     |             |      |         |          | DNW      | 01      |          |    |     | DCF |    |   |     |                    |                    |        |
| 19485   |        | XA546     | 23  |     |        |           |     |     |             |      |         | J        | XE07C0X  | 01      | XE07C0X  | 00 | 1   | DCF | B7 |   | 10A | XE07DB4 BUSS       |                    |        |
| 19492   |        | XA546     | 23  |     | XA502  | 23        |     |     | 16B         | 9    |         | P        | XE07C0X  | 02      | XE07DB4  | 01 | 1   | DCF | B7 |   | 10A | DEV DATA LINE 7    | A01                |        |
| 01686   |        | XA546     | 24  |     |        |           |     |     |             |      |         |          | DNW      | 01      |          |    |     | DCF |    |   |     |                    |                    |        |
| 19456   |        | XA546     | 25  | 3   |        |           |     |     |             |      |         |          | XE04DB4R | 02      |          |    |     | DCF |    |   |     |                    |                    |        |
| 01687   |        | XA546     | 26  |     |        |           |     |     |             |      |         | J        | XE04C0X  | 01      | XE04C0X  | 00 | 1   | DCF | B1 |   | 10B | XE04DB4 BUSS       |                    |        |
| 19446   |        | XA546     | 27  |     |        |           |     |     |             |      |         | P        | XE04C0X  | 02      | XE04DB4  | 01 | 1   | DCF | R1 |   | 10B | DEV DATA LINE 4    | A01                |        |
| 19453   |        | XA546     | 27  |     | XA502  | 17        |     |     | 16B         | 9    |         |          | +5V      | 01      |          |    |     | DCF |    |   | 21B |                    |                    |        |
| 00738   |        | XA546     | 28  |     |        |           |     |     |             |      |         |          |          | 01      |          |    |     | DCF |    |   |     |                    |                    |        |
| 19449   |        | XA546     | 29  |     |        |           |     |     |             |      |         |          | XE04C0X  | 03      | XE04C0X  | 00 | 1   | DCF | B2 |   | 11B |                    |                    |        |
| 19486   |        | XA546     | 30  |     | XA548  | 34        |     |     | 16B         | 9    |         |          | XE07C0X  | 01      | XE07C0X  | 00 | 1   | DCF | B8 |   | 11A |                    |                    |        |
| 11043   |        | XA546     | 31  |     | XA445  | 20        |     |     | 16B         | 9    |         |          | TDL4A0   | 08      | XE04C0X  | 01 | 1   | DCF | B2 |   | 12B |                    |                    |        |
| 03130   |        | XA546     | 32  |     |        |           |     |     |             |      |         |          | GND      | 01      |          |    |     | DCF |    |   |     |                    |                    |        |
| 11056   |        | XA546     | 33  |     | XA445  | 19        |     |     | 16B         | 9    |         |          | TDL5A0   | 08      | XE05C0X  | 01 | 1   | DCF | B4 |   | 13B |                    |                    |        |
| 11081   |        | XA546     | 34  |     |        |           |     |     |             |      |         |          | TDL7A0   | 08      | XE07C0X  | 01 | 1   | DCF | B8 |   | 12A |                    |                    |        |
| 19462   |        | XA546     | 35  |     |        |           |     |     |             |      |         |          | XE05C0X  | 03      | XE05C0X  | 00 | 1   | DCF | B4 |   | 14B |                    |                    |        |
| 19118   |        | XA546     | 36  |     | XA546  | 06        |     |     | 16B         | 9    |         |          | XECSSA   | 03      | XE04C0X  | 01 | 1   | DCF | B1 |   | 13A |                    |                    |        |
| 20769   |        | XA546     | 36  |     |        |           |     |     |             |      |         | M        | XECSSA   | 01      | XE06C0X  | 01 | 1   | DCF | B5 |   | 13A |                    |                    |        |
| 20770   |        | XA546     | 36  |     |        |           |     |     |             |      |         | M        | XECSSA   | 01      | XE07C0X  | 01 | 1   | DCF | B7 |   | 13A |                    |                    |        |
| 20771   |        | XA546     | 36  |     |        |           |     |     |             |      |         | M        | XECSSA   | 01      | XE05C0X  | 01 | 1   | DCF | B3 |   | 13A |                    |                    |        |
| 19459   |        | XA546     | 37  |     |        |           |     |     |             |      |         | J        | XE05C0X  | 01      | XE05C0X  | 00 | 1   | DCF | B3 |   | 15B | XE05DB4 BUSS       |                    |        |
| 19466   |        | XA546     | 37  |     | XA502  | 19        |     |     | 16B         | 9    |         | P        | XE05C0X  | 02      | XE05DB4  | 01 | 1   | DCF | B3 |   | 15B | DEV DATA LINE 5    | A01                |        |
| 11068   |        | XA546     | 38  |     | XA445  | 27        |     |     | 16B         | 9    |         |          | TDL6A0   | 07      | XE06C0X  | 01 | 1   | DCF | B6 |   | 14A |                    |                    |        |
| 19469   |        | XA546     | 39  |     |        |           |     |     |             |      |         |          | XE05DB4R | 02      |          |    |     | DCF |    |   |     |                    |                    |        |
| 19475   |        | XA546     | 40  |     |        |           |     |     |             |      |         |          | XE06C0X  | 03      | XE06C0X  | 00 | 1   | DCF | B6 |   | 15A |                    |                    |        |
| 19472   |        | XA546     | 41  |     |        |           |     |     |             |      |         | J        | XE06C0X  | 01      | XE06C0X  | 00 | 1   | DCF | B5 |   | 16A | XE06DB4 BUSS       |                    |        |
| 19479   |        | XA546     | 41  |     | XA502  | 21        |     |     | 16B         | 9    |         | P        | XE06C0X  | 02      | XE06DB4  | 01 | 1   | DCF | B5 |   | 16A | DEV DATA LINE 6    | A01                |        |
| 19482   |        | XA546     | 42  | 3   |        |           |     |     |             |      |         |          | XE06DB4R | 02      |          |    |     | DCF |    |   | 20B |                    |                    |        |
| 19249   |        | XA546     | 43  |     |        |           |     |     |             |      |         | J        | XER2C0X  | 01      | XER2C0X  | 00 | 1   | JCF | C7 |   | 25A | XER2DB4 BUSS       |                    |        |
| 19255   |        | XA546     | 43  |     | XA502  | 33        |     |     | 16B         | 9    |         | P        | XER2C0X  | 02      | XER2DB4  | 01 | 1   | DCF | C7 |   | 25A |                    | A01                |        |
| 19257   |        | XA546     | 44  | 3   | XA502  | 34        | 3   |     | 16B         | 9    |         |          | XER2DB4R | 01      |          |    |     | DCF |    |   |     |                    |                    |        |
| 21320   |        | XA546     | 44  |     |        |           |     |     |             |      |         |          | GND      | 01      |          |    |     | DCF |    |   |     |                    |                    |        |
| 19390   |        | XA546     | 45  | 3   | XA502  | 04        | 3   |     | 16B         | 9    |         |          | XE0PDB4R | 01      |          |    |     | DCF |    |   | 27A |                    |                    |        |
| 19382   |        | XA546     | 46  |     |        |           |     |     |             |      |         | J        | XE0PC0X  | 01      | XE0PC0X  | 00 | 1   | DCF | C1 |   | 25B | XE0PDB4 BUSS       |                    |        |
| 19387   |        | XA546     | 46  |     | XA545  | 53        |     |     | 16B         | 9    |         | P        | XE0PC0X  | 01      | XE0PDB4  | 01 | 1   | DCF | C1 |   | 25B | DEV DATA LINE PARI |                    |        |
| 19384   |        | XA546     | 47  |     |        |           |     |     |             |      |         |          | XE0PC0X  | 02      | XE0PC0X  | 00 | 1   | DCF | C2 |   | 26B |                    |                    |        |
| 19250   |        | XA546     | 48  |     | XA551  | 22        |     |     | 16B         | 9    |         |          | XER2C0X  | 01      | XER2C0X  | 00 | 1   | DCF | C8 |   | 26A | DEV PEQ REC. 2     |                    |        |
| 10984   |        | XA546     | 49  |     |        |           |     |     |             |      |         |          | TDLPA0   | 08      | XE0PC0X  | 01 | 1   | DCF | C2 |   | 27B |                    |                    |        |
| 19136   |        | XA546     | 50  |     | XA546  | 54        |     |     | 16B         | 9    |         |          | XEGNDA   | 04      | XER2C0X  | 01 | 1   | DCF | C8 |   | 28A |                    |                    |        |
| 19135   |        | XA546     | 51  |     | XA546  | 50        |     |     | 16B         | 9    |         |          | XEGNDA   | 03      | XE0PC0X  | 01 | 1   | DCF | C4 |   | 28B |                    |                    |        |
| 19117   |        | XA546     | 52  |     | XA546  | 36        |     |     | 16B         | 9    |         |          | XECSSA   | 02      | XE0PC0X  | 01 | 1   | DCF | C1 |   | 29A |                    |                    |        |
| CONNECTOR (XA546) CONTINUED ON THE NEXT PAGE **** |        |           |     |     |        |           |     |     |             |      |         |          |          |         |          |    |     |     |    |   |     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA546  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 432

| RECORD NUMBER                                     | FROM   |           |     | TO | TO     |           |     | WIRE         |      |       | SPEC. INST. MISC. | SIGNAL   | SEC NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|----|--------|-----------|-----|--------------|------|-------|-------------------|----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |    | PREFIX | CONNECTOR | PIN | NO. IN GROUP | CODE | COLOR |                   |          |        |          |      |        |                  |       |                     |                    |                    |        |
| 20772   |        | XA546     | 52  |    |        |           |     |              |      |       | M                 | XECSSA   | 01     | XER2CDX  | 01   | 1      | DCF              | C7    |                     | 29A                |                    |        |
| 20773   |        | XA546     | 52  |    |        |           |     |              |      |       | M                 | XECSSA   | 01     | XER0CDX  | 01   | 1      | DCF              | C3    |                     | 29A                |                    |        |
| 20774   |        | XA546     | 52  |    |        |           |     |              |      |       | M                 | XECSSA   | 01     | XER1CDX  | 01   | 1      | DCF              | C5    |                     | 29A                |                    |        |
| 19213   |        | XA546     | 53  | 3  | XA502  | 26        | 3   | 16B          | 9    |       |                   | XER0DB4R | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 19137   |        | XA546     | 54  |    | XA548  | 52        |     | 16B          | 9    |       |                   | XEGNDA   | 05     | XER1COX  | 01   | 1      | DCF              | C6    |                     | 30A                |                    |        |
| 19205   |        | XA546     | 55  |    |        |           |     |              |      |       | J                 | XER0CDX  | 01     | XER0CDX  | 00   | 1      | DCF              | C3    |                     | 30B                | XER0DB4 BUSS       |        |
| 19210   |        | XA546     | 55  |    | XA545  | 51        |     | 16B          | 9    |       | P                 | XER0CDX  | 01     | XER0DB4  | 00   | 1      | DCF              | C3    |                     | 30B                |                    |        |
| 19206   |        | XA546     | 56  |    | XA551  | 11        |     | 16B          | 9    |       |                   | XER0COX  | 01     | XER0COX  | 00   | 1      | DCF              | C4    |                     | 29B                | DEV REQ REC. 0     |        |
| 19228   |        | XA546     | 57  |    | XA551  | 06        |     | 16B          | 9    |       |                   | XER1COX  | 01     | XEP1COX  | 00   | 1      | DCF              | C6    |                     | 31A                | DEV REQ REC. 1     |        |
| 19235   |        | XA546     | 58  | 3  | XA502  | 30        | 3   | 16B          | 9    |       |                   | XER1DB4R | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 21321   |        | XA546     | 58  |    |        |           |     |              |      |       |                   | GND      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 19345   |        | XA546     | 59  | 3  | XA502  | 42        | 3   | 16B          | 9    |       |                   | XER6DB4R | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 19227   |        | XA546     | 60  |    |        |           |     |              |      |       | J                 | XER1CDX  | 01     | XER1CDX  | 00   | 1      | DCF              | C5    |                     | 31B                | XER1DB4 BUSS       |        |
| 19233   |        | XA546     | 60  |    | XA502  | 29        |     | 16B          | 9    |       | P                 | XER1CDX  | 02     | XER1DB4  | 01   | 1      | DCF              | C5    |                     | 31B                |                    |        |
| 19337   |        | XA546     | 61  |    |        |           |     |              |      |       | J                 | XER6CDX  | 01     | XER6CDX  | 00   | 1      | DCF              | D7    |                     | 33A                | XER6DB4 BUSS       |        |
| 19343   |        | XA546     | 61  |    | XA502  | 41        |     | 16B          | 9    |       | P                 | XER6CDX  | 02     | XER6DB4  | 01   | 1      | DCF              | D7    |                     | 33A                |                    |        |
| 01688   |        | XA546     | 62  |    |        |           |     |              |      |       |                   | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 01689   |        | XA546     | 63  |    |        |           |     |              |      |       |                   | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 01690   |        | XA546     | 64  |    |        |           |     |              |      |       |                   | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 19271   |        | XA546     | 65  |    |        |           |     |              |      |       | J                 | XER3CDX  | 01     | XER3CDX  | 00   | 1      | DCF              | D1    |                     | 32B                | XER3DB4 BUSS       |        |
| 19276   |        | XA546     | 65  |    | XA545  | 65        |     | 16B          | 9    |       | P                 | XER3CDX  | 01     | XER3DB4  | 01   | 1      | DCF              | D1    |                     | 32B                |                    |        |
| 01691   |        | XA546     | 66  |    |        |           |     |              |      |       |                   | DNW      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 19279   |        | XA546     | 67  | 3  | XA502  | 36        | 3   | 16B          | 9    |       |                   | XER3DB4R | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 21322   |        | XA546     | 67  |    |        |           |     |              |      |       |                   | GND      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 19338   |        | XA546     | 68  |    | XA551  | 52        |     | 16B          | 9    |       |                   | XER6COX  | 01     | XER6COX  | 00   | 1      | DCF              | D8    |                     | 34A                | DEV REQ REC. 6     |        |
| 19272   |        | XA546     | 69  |    | XA551  | 23        |     | 16B          | 9    |       |                   | XER3COX  | 01     | XER3COX  | 00   | 1      | DCF              | D2    |                     | 33B                | DEV REQ REC. 3     |        |
| 06300   |        | XA546     | 70  |    | XA546  | 74        |     | 16B          | 9    |       |                   | SPI309   | 01     | XER6COX  | 01   | 1      | DCF              | D8    |                     | 35A                |                    |        |
| 06303   |        | XA546     | 71  |    | XA539  | 70        |     | 16B          | 9    |       |                   | SPI309   | 04     | XER3COX  | 01   | 1      | DCF              | D2    |                     | 34B                |                    |        |
| 06280   |        | XA546     | 72  |    | XA539  | 72        |     | 16B          | 9    |       |                   | SPI301   | 01     | XER3CDX  | 01   | 1      | DCF              | D1    |                     | 36A                |                    |        |
| 20357   |        | XA546     | 72  |    |        |           |     |              |      |       | M                 | SPI301   | 01     | XER5COX  | 01   | 1      | DCF              | D5    |                     | 36A                |                    |        |
| 20358   |        | XA546     | 72  |    |        |           |     |              |      |       | M                 | SPI301   | 01     | XER4COX  | 01   | 1      | DCF              | D3    |                     | 36A                |                    |        |
| 20359   |        | XA546     | 72  |    |        |           |     |              |      |       | M                 | SPI301   | 01     | XER6COX  | 01   | 1      | DCF              | D7    |                     | 36A                |                    |        |
| 06302   |        | XA546     | 73  |    | XA546  | 71        |     | 16B          | 9    |       |                   | SPI309   | 03     | XER4COX  | 01   | 1      | DCF              | D4    |                     | 35B                |                    |        |
| 06301   |        | XA546     | 74  |    | XA546  | 73        |     | 16B          | 9    |       |                   | SPI309   | 02     | XER5COX  | 01   | 1      | DCF              | D6    |                     | 37A                |                    |        |
| 19294   |        | XA546     | 75  |    | XA551  | 38        |     | 16B          | 9    |       |                   | XER4COX  | 01     | XER4COX  | 00   | 1      | DCF              | D4    |                     | 36B                | DEV REQ REC. 4     |        |
| 19316   |        | XA546     | 76  |    | XA551  | 35        |     | 16B          | 9    |       |                   | XER5COX  | 01     | XER5COX  | 00   | 1      | DCF              | D6    |                     | 38A                | DEV REQ REC. 5     |        |
| 19301   |        | XA546     | 77  | 3  | XA502  | 38        | 3   | 16B          | 9    |       |                   | XER4DB4R | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| 19293   |        | XA546     | 78  |    |        |           |     |              |      |       | J                 | XER4CDX  | 01     | XER4CDX  | 00   | 1      | DCF              | D3    |                     | 37B                | XER4DB4 BUSS       |        |
| 19298   |        | XA546     | 78  |    | XA545  | 63        |     | 16B          | 9    |       | P                 | XER4CDX  | 01     | XER4DB4  | 01   | 1      | DCF              | D3    |                     | 37B                |                    |        |
| 19323   |        | XA546     | 79  | 3  | XA502  | 40        | 3   | 16B          | 9    |       |                   | XER5DB4R | 01     |          |      |        | DCF              |       |                     | 40B                |                    |        |
| 19315   |        | XA546     | 80  |    |        |           |     |              |      |       | J                 | XER5CDX  | 01     | XER5CDX  | 00   | 1      | DCF              | D5    |                     | 38B                | XER5DB4 BUSS       |        |
| 19320   |        | XA546     | 80  |    | XA545  | 61        |     | 16B          | 9    |       | P                 | XER5CDX  | 01     | XER5DB4  | 01   | 1      | DCF              | D5    |                     | 38B                |                    |        |
| 10844   |        | XA547     | 01  |    | XA541  | 01        |     | 16B          | 9    |       | P                 | XE03BDX  | 02     | TD13BB4  | 10   | 1      | DCF              | A7    |                     | 02A                | DEV REQ 3 TO IOC   |        |
| 19432   |        | XA547     | 01  |    |        |           |     |              |      |       | J                 | XE03BDX  | 01     | XE03BDX  | 00   | 1      | DCF              | A7    |                     | 02A                | TD13BB4 BUSS       |        |
| 03238   |        | XA547     | 02  |    |        |           |     |              |      |       |                   | GND      | 01     |          |      |        | DCF              |       |                     | 01A                |                    |        |
| 20789   |        | XA547     | 03  |    |        |           |     |              |      |       | M                 | XE03BOX  | 01     | XE03BOX  | 00   | 1      | DCF              | A8    |                     | 03A                |                    |        |
| 19287   |        | XA547     | 04  |    | XA549  | 14        |     | 16B          | 9    |       |                   | XER30S   | 01     | XE03BOX  | 01   | 1      | DCF              | A8    |                     | 04A                |                    |        |
| 03241   |        | XA547     | 05  |    |        |           |     |              |      |       |                   | SPP      | 01     |          |      |        | DCF              |       |                     |                    |                    |        |
| CONNECTOR (XA547) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |              |      |       |                   |          |        |          |      |        |                  |       |                     |                    |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA547  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 433

| RECORD NUMBER                                     | FROM   |           |     |        | TO     |           |     |        | WIRE        |      |       |       | SIGNAL | SEQ NO | EQUATION | TERM | FACT | CKT OP CHIP TYPE | GRP | LOAD CP POWER PLANE | TEST POINTS LOCATION | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|--------|-----------|-----|--------|-------------|------|-------|-------|--------|--------|----------|------|------|------------------|-----|---------------------|----------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | SH T/C | PREFIX | CONNECTOR | PIN | SH T/C | MULTI GROUP | CODE | COLOR | IDENT |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 19113   |        | XA547     | 06  |        |        | XA547     | 36  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 05A                  |                    |        |
| 20760   |        | XA547     | 06  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 05A                  |                    |        |
| 20761   |        | XA547     | 06  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 05A                  |                    |        |
| 20762   |        | XA547     | 06  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 05A                  |                    |        |
| 10772   |        | XA547     | 07  |        |        | XA548     | 07  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 02B                  | DEV REQ 0 TO IOC   |        |
| 19393   |        | XA547     | 07  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 02B                  | TDI08B4 BUSS       |        |
| 19265   |        | XA547     | 08  |        |        | XA549     | 22  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 06A                  |                    |        |
| 20783   |        | XA547     | 09  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 03B                  |                    |        |
| 20787   |        | XA547     | 10  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 07A                  |                    |        |
| 19221   |        | XA547     | 11  |        |        | XA549     | 06  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 04B                  |                    |        |
| 00739   |        | XA547     | 12  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 08A                  |                    |        |
| 19243   |        | XA547     | 13  |        |        | XA549     | 01  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 05B                  |                    |        |
| 10817   |        | XA547     | 14  |        |        | XA541     | 14  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 08B                  | DEV REQ 2 TO IOC   |        |
| 19419   |        | XA547     | 14  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 08B                  | TDI28B4 BUSS       |        |
| 20785   |        | XA547     | 15  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 06B                  |                    |        |
| 03260   |        | XA547     | 16  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 10790   |        | XA547     | 17  |        |        | XA541     | 17  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 07B                  | DEV REQ 1 TO IOC   |        |
| 19406   |        | XA547     | 17  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 07B                  | TDI18B4 BUSS       |        |
| 01692   |        | XA547     | 18  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 03263   |        | XA547     | 19  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 01693   |        | XA547     | 20  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 03286   |        | XA547     | 21  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 01694   |        | XA547     | 22  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 10952   |        | XA547     | 23  |        |        | XA541     | 23  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 10A                  | DEV REQ 7 TO IOC   |        |
| 19484   |        | XA547     | 23  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 10A                  | TDI78B4 BUSS       |        |
| 01695   |        | XA547     | 24  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 03283   |        | XA547     | 25  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 01696   |        | XA547     | 26  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 10880   |        | XA547     | 27  |        |        | XA548     | 27  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 10B                  | DEV REQ 4 TO IOC   |        |
| 19445   |        | XA547     | 27  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 10B                  | TDI48B4 BUSS       |        |
| 00740   |        | XA547     | 28  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 21B                  |                    |        |
| 20791   |        | XA547     | 29  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 11B                  |                    |        |
| 20797   |        | XA547     | 30  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 11A                  |                    |        |
| 19309   |        | XA547     | 31  |        |        | XA549     | 38  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 12B                  |                    |        |
| 03131   |        | XA547     | 32  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 19334   |        | XA547     | 33  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 19374   |        | XA547     | 34  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 13B                  |                    |        |
| 20793   |        | XA547     | 35  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 12A                  |                    |        |
| 19114   |        | XA547     | 36  |        |        | XA549     | 74  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 14B                  |                    |        |
| 20763   |        | XA547     | 36  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 13A                  |                    |        |
| 20764   |        | XA547     | 36  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 13A                  |                    |        |
| 20765   |        | XA547     | 36  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 13A                  |                    |        |
| 10898   |        | XA547     | 37  |        |        | XA541     | 37  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 15B                  | DEV REQ 5 TO IOC   |        |
| 19458   |        | XA547     | 37  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 15B                  | TDI58B4 BUSS       |        |
| 19352   |        | XA547     | 38  |        |        | XA549     | 52  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 14A                  |                    |        |
| 03307   |        | XA547     | 39  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |
| 20795   |        | XA547     | 40  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 15A                  |                    |        |
| 10934   |        | XA547     | 41  |        |        | XA548     | 41  |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 16A                  | DEV REQ 6 TO IOC   |        |
| 19471   |        | XA547     | 41  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 16A                  | TDI68B4 BUSS       |        |
| 03319   |        | XA547     | 42  |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     | 20B                  |                    |        |
| CONNECTOR (XA547) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |        |           |     |        |             |      |       |       |        |        |          |      |      |                  |     |                     |                      |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA547  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 434

| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       |       | SPEC. INST. MISC. | SIGNAL | SEQ. NO. | EQUATION | TERM. | FACTOR | CKT. OR CHIP TYPE | GROUP | LOAD OR POWER PL. LINE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO. |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|-------|-------------------|--------|----------|----------|-------|--------|-------------------|-------|------------------------|--------------------|--------------------|---------|
|   | PREFIX | CONNECTOR | PIN | SN/PC | PREFIX | CONNECTOR | PIN | SN/PC | MULTI GROUP | CODE | COLOR | IDENT |                   |        |          |          |       |        |                   |       |                        |                    |                    |         |
| 08168   |        | XA547     | 43  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       | 00     | 1                 | DCF   | C7                     | 25A                |                    |         |
| 03333   |        | XA547     | 44  |       |        |           |     |       |             |      |       |       | GND               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 03330   |        | XA547     | 45  |       |        |           |     |       |             |      |       |       | SPP               | 01     |          |          |       |        |                   | DCF   |                        | 27A                |                    |         |
| 10746   |        | XA547     | 46  |       |        |           |     |       |             |      |       | P     | XEOPADX           | 07     | TDIPBB4  |          | 05    | 1      | DCF               | C1    |                        | 25B                | IOC INPUT DATA LIN |         |
| 19381   |        | XA547     | 46  |       |        |           |     |       |             |      |       | J     | XEOPADX           | 01     | XEOPADX  |          | 00    | 1      | DCF               | C1    |                        | 25B                | TDIPBB4 BUSS       |         |
| 20781   |        | XA547     | 47  |       |        |           |     |       |             |      |       | M     | XEOPAOX           | 01     | XEOPAOX  |          | 03    | 1      | DCF               | C2    |                        | 26B                |                    |         |
| 08169   |        | XA547     | 48  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | C8                     | 26A                |                    |         |
| 19383   |        | XA547     | 49  |       | XA546  | 47        |     |       |             | 16B  | 9     |       | XEOPCOX           | 01     | XEOPAOX  |          | 01    | 1      | DCF               | C2    |                        | 27B                |                    |         |
| 06272   |        | XA547     | 50  |       |        |           |     |       |             |      |       |       | SPI045            | 09     |          |          |       |        |                   | DCF   | C8                     | 28A                |                    |         |
| 19155   |        | XA547     | 51  |       |        |           |     |       |             |      |       |       | XEINCOX           | 02     | XEINAOX  |          | 01    | 1      | DCF               | C4    |                        | 28B                |                    |         |
| 19097   |        | XA547     | 52  |       | XA549  | 51        |     |       |             | 16B  | 9     |       | XECSDA            | 01     | XEOPADX  |          | 01    | 1      | DCF               | C1    |                        | 29A                |                    |         |
| 20753   |        | XA547     | 52  |       |        |           |     |       |             |      |       | M     | XECSDA            | 01     | XEINAOX  |          | 01    | 1      | DCF               | C3    |                        | 29A                |                    |         |
| 03353   |        | XA547     | 53  |       |        |           |     |       |             |      |       |       | SPP               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 06248   |        | XA547     | 54  |       | XA548  | 51        |     |       |             | 16B  | 9     |       | SPI044            | 24     |          |          |       |        |                   | DCF   | C6                     | 30A                |                    |         |
| 13327   |        | XA547     | 55  |       |        |           |     |       |             |      |       | P     | XEINADX           | 07     | TINDBB4  |          | 05    | 1      | DCF               | C3    |                        | 30B                | DEV INDICATOR TO   |         |
| 19152   |        | XA547     | 55  |       |        |           |     |       |             |      |       | J     | XEINADX           | 01     | XEINADX  |          | 03    | 1      | DCF               | C3    |                        | 30B                | TINDBB4 BUSS       |         |
| 20776   |        | XA547     | 56  |       |        |           |     |       |             |      |       | M     | XEINAOX           | 01     | XEINAOX  |          | 03    | 1      | DCF               | C4    |                        | 29B                |                    |         |
| 08170   |        | XA547     | 57  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | C6                     | 31A                |                    |         |
| 03356   |        | XA547     | 58  |       |        |           |     |       |             |      |       |       | GND               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 03372   |        | XA547     | 59  |       |        |           |     |       |             |      |       |       | SPP               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 08171   |        | XA547     | 60  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | C5                     | 31B                |                    |         |
| 08172   |        | XA547     | 61  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | D7                     | 33A                |                    |         |
| 01697   |        | XA547     | 62  |       |        |           |     |       |             |      |       |       | DNW               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 01698   |        | XA547     | 63  |       |        |           |     |       |             |      |       |       | DNW               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 01699   |        | XA547     | 64  |       |        |           |     |       |             |      |       |       | DNW               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 08173   |        | XA547     | 65  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | D1                     | 32B                |                    |         |
| 01700   |        | XA547     | 66  |       |        |           |     |       |             |      |       |       | DNW               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 03379   |        | XA547     | 67  |       |        |           |     |       |             |      |       |       | GND               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 08174   |        | XA547     | 68  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | D8                     | 34A                |                    |         |
| 08175   |        | XA547     | 69  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | D2                     | 33B                |                    |         |
| 05019   |        | XA547     | 70  |       | XA540  | 70        |     |       |             | 16B  | 9     |       | SPI005            | 16     |          |          |       |        |                   | DCF   | D8                     | 35A                |                    |         |
| 06267   |        | XA547     | 71  |       | XA549  | 76        |     |       |             | 16B  | 9     |       | SPI045            | 04     |          |          |       |        |                   | DCF   | D2                     | 34B                |                    |         |
| 06245   |        | XA547     | 72  |       | XA549  | 69        |     |       |             | 16B  | 9     |       | SPI044            | 21     |          |          |       |        |                   | DCF   | D1                     | 36A                |                    |         |
| 06002   |        | XA547     | 73  |       | XA542  | 78        |     |       |             | 16B  | 9     |       | SPI037            | 20     |          |          |       |        |                   | DCF   | D4                     | 35B                |                    |         |
| 05639   |        | XA547     | 74  |       | XA540  | 74        |     |       |             | 16B  | 9     |       | SPI026            | 31     |          |          |       |        |                   | DCF   | D6                     | 37A                |                    |         |
| 08176   |        | XA547     | 75  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | D4                     | 36B                |                    |         |
| 08177   |        | XA547     | 76  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | D6                     | 38A                |                    |         |
| 03386   |        | XA547     | 77  |       |        |           |     |       |             |      |       |       | SPP               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 08178   |        | XA547     | 78  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | D3                     | 37B                |                    |         |
| 03387   |        | XA547     | 79  |       |        |           |     |       |             |      |       |       | SPP               | 01     |          |          |       |        |                   | DCF   |                        | 40B                |                    |         |
| 08179   |        | XA547     | 80  |       |        |           |     |       |             |      |       |       | SPO               | 01     |          |          |       |        |                   | DCF   | D5                     | 38B                |                    |         |
| 10843   |        | XA548     | 01  |       | XA547  | 01        |     |       |             | 16B  | 9     | P     | XE03ADX           | 01     | TDI3BB4  |          | 09    | 1      | DCF               | A7    |                        | 02A                | IOC INPUT DATA LIN |         |
| 19431   |        | XA548     | 01  |       |        |           |     |       |             |      |       | J     | XE03ADX           | 01     | XE03ADX  |          | 00    | 1      | DCF               | A7    |                        | 02A                | TDI3BB4 BUSS       |         |
| 03239   |        | XA548     | 02  |       |        |           |     |       |             |      |       |       | GND               | 01     |          |          |       |        |                   | DCF   |                        | 01A                |                    |         |
| 20788   |        | XA548     | 03  |       |        |           |     |       |             |      |       | M     | XE03AOX           | 01     | XE03AOX  |          | 00    | 1      | DCF               | A8    |                        | 03A                |                    |         |
| 19435   |        | XA548     | 04  |       | XA550  | 23        |     |       |             | 16B  | 9     |       | XE03COX           | 02     | XE03AOX  |          | 01    | 1      | DCF               | A8    |                        | 04A                |                    |         |
| 03240   |        | XA548     | 05  |       |        |           |     |       |             |      |       |       | SPP               | 01     |          |          |       |        |                   | DCF   |                        |                    |                    |         |
| 19100   |        | XA548     | 06  |       |        |           |     |       |             |      |       |       | XECSDA            | 04     | XE03ADX  |          | 01    | 1      | DCF               | A1    |                        | 05A                |                    |         |
| CONNECTOR (XA548) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |       |                   |        |          |          |       |        |                   |       |                        |                    |                    |         |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA548  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 435

| RECORD NUMBER | FROM   |           |                                 | TO     |           |     | WIRE |             |      |        | SIGNAL | SEQ NO  | EQUATION | TUM     | TUM FACTOR | CMT OR CHIP TYPE | QDAM | LOAD OF POWER PLANE | TEST POINTS (END OF) | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|---------------------------------|--------|-----------|-----|------|-------------|------|--------|--------|---------|----------|---------|------------|------------------|------|---------------------|----------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN                             | PREFIX | CONNECTOR | PIN | SHFT | MULTI GROUP | CODE | COL IN |        |         |          |         |            |                  |      |                     |                      |                    |        |
| 20754         |        | XA548     | 06                              |        |           |     |      |             |      |        | M      | XECSDA  | 01       | XE03ADX | 01         | 1                | DCF  | A7                  | 05A                  |                    |        |
| 20755         |        | XA548     | 06                              |        |           |     |      |             |      |        | M      | XECSDA  | 01       | XE01ADX | 01         | 1                | DCF  | A3                  | 05A                  |                    |        |
| 20756         |        | XA548     | 06                              |        |           |     |      |             |      |        | M      | XECSDA  | 01       | XE02ADX | 01         | 1                | DCF  | A5                  | 05A                  |                    |        |
| 10773         |        | XA548     | 07                              |        |           |     |      |             |      |        | P      | XE03ADX | 12       | TDI0BB4 | 09         | 1                | DCF  | A1                  | 02B                  | IOC INPUT DATA LIN |        |
| 19392         |        | XA548     | 07                              |        |           |     |      |             |      |        | J      | XE03ADX | 01       | XE00A0X | 00         | 1                | DCF  | A1                  | 02B                  | TDI0BB4 BUSS       |        |
| 19422         |        | XA548     | 08                              |        | XA550     | 17  |      | 16B         | 9    |        | J      | XE02COX | 02       | XE02A0X | 01         | 1                | DCF  | A6                  | 06A                  |                    |        |
| 20782         |        | XA548     | 09                              |        |           |     |      |             |      |        | M      | XE00A0X | 01       | XE00A0X | 00         | 1                | DCF  | A2                  | 03B                  |                    |        |
| 20786         |        | XA548     | 10                              |        |           |     |      |             |      |        | M      | XE02A0X | 01       | XE02A0X | 00         | 1                | DCF  | A6                  | 07A                  |                    |        |
| 19396         |        | XA548     | 11                              |        | XA550     | 03  |      | 16B         | 9    |        | J      | XE00COX | 02       | XE00A0X | 01         | 1                | DCF  | A2                  | 04B                  |                    |        |
| 00741         |        | XA548     | 12                              |        |           |     |      |             |      |        |        |         | 01       |         |            |                  | DCF  |                     | 08A                  |                    |        |
| 19409         |        | XA548     | 13                              |        | XA546     | 15  |      | 16B         | 9    |        | J      | XE01COX | 02       | XE01A0X | 01         | 1                | DCF  | A4                  | 05B                  |                    |        |
| 10816         |        | XA548     | 14                              |        | XA547     | 14  |      | 16B         | 9    |        | P      | XE02ADX | 01       | TDI2BB4 | 09         | 1                | DCF  | A5                  | 08B                  | IOC INPUT DATA LIN |        |
| 19418         |        | XA548     | 14                              |        |           |     |      |             |      |        | J      | XE02ADX | 01       | XE02ADX | 00         | 1                | DCF  | A5                  | 08B                  | TDI2BB4 BUSS       |        |
| 20784         |        | XA548     | 15                              |        |           |     |      |             |      |        | M      | XE01A0X | 01       | XE01A0X | 00         | 1                | DCF  | A4                  | 06R                  |                    |        |
| 03261         |        | XA548     | 16                              |        |           |     |      |             |      |        |        | GND     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 10789         |        | XA548     | 17                              |        | XA547     | 17  |      | 16B         | 9    |        | P      | XE01ADX | 01       | TDI1BB4 | 09         | 1                | DCF  | A3                  | 07B                  | IOC INPUT DATA LIN |        |
| 19405         |        | XA548     | 17                              |        |           |     |      |             |      |        | J      | XE01ADX | 01       | XE01ADX | 00         | 1                | DCF  | A3                  | 07B                  | TDI1BB4 BUSS       |        |
| 01701         |        | XA548     | 18                              |        |           |     |      |             |      |        |        | DNW     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 03262         |        | XA548     | 19                              |        |           |     |      |             |      |        |        | SPP     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 01702         |        | XA548     | 20                              |        |           |     |      |             |      |        |        | DNW     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 03285         |        | XA548     | 21                              |        |           |     |      |             |      |        |        | SPP     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 01703         |        | XA548     | 22                              |        |           |     |      |             |      |        |        | DNW     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 10951         |        | XA548     | 23                              |        | XA547     | 23  |      | 16B         | 9    |        | P      | XE07ADX | 01       | TDI7BB4 | 09         | 1                | DCF  | B7                  | 10A                  | IOC INPUT DATA LIN |        |
| 19483         |        | XA548     | 23                              |        |           |     |      |             |      |        | J      | XE07ADX | 01       | XE07ADX | 00         | 1                | DCF  | B7                  | 10A                  | TDI7BB4 BUSS       |        |
| 01704         |        | XA548     | 24                              |        |           |     |      |             |      |        |        | DNW     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 03284         |        | XA548     | 25                              |        |           |     |      |             |      |        |        | SPP     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 01705         |        | XA548     | 26                              |        |           |     |      |             |      |        |        | DNW     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 10881         |        | XA548     | 27                              |        |           |     |      |             |      |        | P      | XE04ADX | 12       | TDI4BB4 | 09         | 1                | DCF  | B1                  | 10B                  | IOC INPUT DATA LIN |        |
| 19444         |        | XA548     | 27                              |        |           |     |      |             |      |        | J      | XE04ADX | 01       | XE04ADX | 00         | 1                | DCF  | B1                  | 10B                  | TDI4BB4 BUSS       |        |
| 00742         |        | XA548     | 28                              |        |           |     |      |             |      |        |        | +5V     | 01       |         |            |                  | DCF  |                     | 21B                  |                    |        |
| 20790         |        | XA548     | 29                              |        |           |     |      |             |      |        | M      | XE04A0X | 01       | XE04A0X | 00         | 1                | DCF  | B2                  | 11B                  |                    |        |
| 20796         |        | XA548     | 30                              |        |           |     |      |             |      |        | M      | XE07A0X | 01       | XE07A0X | 00         | 1                | DCF  | B8                  | 11A                  |                    |        |
| 19448         |        | XA548     | 31                              |        | XA546     | 29  |      | 16B         | 9    |        | J      | XE04COX | 02       | XE04A0X | 01         | 1                | DCF  | B2                  | 12B                  |                    |        |
| 03132         |        | XA548     | 32                              |        |           |     |      |             |      |        |        | GND     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 19461         |        | XA548     | 33                              |        | XA546     | 35  |      | 16B         | 9    |        | J      | XE05COX | 02       | XE05A0X | 01         | 1                | DCF  | B4                  | 13B                  |                    |        |
| 19487         |        | XA548     | 34                              |        | XA550     | 47  |      | 16B         | 9    |        | J      | XE07COX | 02       | XE07A0X | 01         | 1                | DCF  | B8                  | 12A                  |                    |        |
| 20792         |        | XA548     | 35                              |        |           |     |      |             |      |        | M      | XE05A0X | 01       | XE05A0X | 00         | 1                | DCF  | B4                  | 14B                  |                    |        |
| 19099         |        | XA548     | 36                              |        | XA548     | 06  |      | 16B         | 9    |        | J      | XECSDA  | 03       | XE04ADX | 01         | 1                | DCF  | B1                  | 13A                  |                    |        |
| 20757         |        | XA548     | 36                              |        |           |     |      |             |      |        | M      | XECSDA  | 01       | XE06ADX | 01         | 1                | DCF  | B5                  | 13A                  |                    |        |
| 20758         |        | XA548     | 36                              |        |           |     |      |             |      |        | M      | XECSDA  | 01       | XE05ADX | 01         | 1                | DCF  | B3                  | 13A                  |                    |        |
| 20759         |        | XA548     | 36                              |        |           |     |      |             |      |        | M      | XECSDA  | 01       | XE07A0X | 01         | 1                | DCF  | B7                  | 13A                  |                    |        |
| 10897         |        | XA548     | 37                              |        | XA547     | 37  |      | 16B         | 9    |        | P      | XE05ADX | 01       | TDI5BB4 | 09         | 1                | DCF  | B3                  | 15B                  | IOC INPUT DATA LIN |        |
| 19457         |        | XA548     | 37                              |        |           |     |      |             |      |        | J      | XE05ADX | 01       | XE05ADX | 00         | 1                | DCF  | B3                  | 15B                  | TDI5BB4 BUSS       |        |
| 19474         |        | XA548     | 38                              |        | XA546     | 40  |      | 16B         | 9    |        | J      | XE06COX | 02       | XE06A0X | 01         | 1                | DCF  | B6                  | 14A                  |                    |        |
| 03308         |        | XA548     | 39                              |        |           |     |      |             |      |        |        | SPP     | 01       |         |            |                  | DCF  |                     |                      |                    |        |
| 20794         |        | XA548     | 40                              |        |           |     |      |             |      |        | M      | XE06A0X | 01       | XE06A0X | 00         | 1                | DCF  | B6                  | 15A                  |                    |        |
| 10935         |        | XA548     | 41                              |        |           |     |      |             |      |        | P      | XE06ADX | 12       | TDI6BB4 | 09         | 1                | DCF  | B5                  | 16A                  | IOC INPUT DATA LIN |        |
| 19470         |        | XA548     | 41                              |        |           |     |      |             |      |        | J      | XE06ADX | 01       | XE06ADX | 00         | 1                | DCF  | B5                  | 16A                  | TDI6BB4 BUSS       |        |
| 03303         |        | XA548     | 42                              |        |           |     |      |             |      |        |        | SPP     | 01       |         |            |                  | DCF  |                     | 20B                  |                    |        |
| 06180         |        | XA548     | 43                              |        |           |     |      |             |      |        |        | SPO     | 01       |         |            |                  | DCF  | C7                  | 25A                  |                    |        |
| CONNECTOR     |        | XA548     | CONTINUED ON THE NEXT PAGE **** |        |           |     |      |             |      |        |        |         |          |         |            |                  |      |                     |                      |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA548  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 436

| RECORD NUMBER                                     | FROM   |           |     | TO     |           |     | WIRE        |      |       |       | SIGNAL    | SEQ NO | EQUATION | TERM | FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANS | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|--------|-----------|-----|-------------|------|-------|-------|-----------|--------|----------|------|--------|------------------|-------|---------------------|--------------------|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN | PREFIX | CONNECTOR | PIN | MULTI GROUP | CODE | COLOR | IDENT |           |        |          |      |        |                  |       |                     |                    |                    |        |
| 03332   |        | XA548     | 44  |        |           |     |             |      |       |       | GND       | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 03331   |        | XA548     | 45  |        |           |     |             |      |       |       | SPP       | 01     |          |      |        |                  |       |                     | 27A                |                    |        |
| 15411   |        | XA548     | 46  |        | XA430     | 29  |             | 16B  | 9     |       | P XEREADX | 01     | TRQ6BB4  | 01   | 1      | DCF              | C1    |                     | 25B                | IOE REQ TO IOC     |        |
| 19188   |        | XA548     | 46  |        |           |     |             |      |       |       | J XEREADX | 01     | XEREADX  | 00   | 1      | DCF              | C1    |                     | 25B                | TRQ6BB4 BUSS       |        |
| 20777   |        | XA548     | 47  |        |           |     |             |      |       |       | M XEREAOX | 01     | XEREAOX  | 00   | 1      | DCF              | C2    |                     | 26B                |                    |        |
| 08181   |        | XA548     | 48  |        |           |     |             |      |       |       | SPO       | 01     |          | 00   | 1      | DCF              | C8    |                     | 26A                |                    |        |
| 19190   |        | XA548     | 49  |        |           |     |             |      |       |       | XERECO    | 02     | XEREAOX  | 01   | 1      | DCF              | C2    |                     | 27B                |                    |        |
| 06000   |        | XA548     | 50  |        | XA549     | 78  |             | 16B  | 9     |       | SPI037    | 18     |          | 01   | 1      | DCF              | C8    |                     | 28A                |                    |        |
| 06249   |        | XA548     | 51  |        | XA550     | 55  |             | 16B  | 9     |       | SPI044    | 25     |          | 01   | 1      | DCF              | C4    |                     | 28B                |                    |        |
| 19138   |        | XA548     | 52  |        | XA551     | 19  |             | 16B  | 9     |       | XEGNDA    | 06     | XEREADX  | 01   | 1      | DCF              | C1    |                     | 29A                |                    |        |
| 03354   |        | XA548     | 53  |        |           |     |             |      |       |       | SPP       | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 06271   |        | XA548     | 54  |        | XA547     | 50  |             | 16B  | 9     |       | SPI045    | 08     |          | 01   | 1      | DCF              | C6    |                     | 30A                |                    |        |
| 08182   |        | XA548     | 55  |        |           |     |             |      |       |       | SPO       | 01     |          | 00   | 1      | DCF              | C3    |                     | 30B                |                    |        |
| 08183   |        | XA548     | 56  |        |           |     |             |      |       |       | SPO       | 01     |          | 00   | 1      | DCF              | C4    |                     | 29B                |                    |        |
| 08184   |        | XA548     | 57  |        |           |     |             |      |       |       | SPO       | 01     |          | 00   | 1      | DCF              | C6    |                     | 31A                |                    |        |
| 03355   |        | XA548     | 58  |        |           |     |             |      |       |       | GND       | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 19132   |        | XA548     | 59  |        |           |     |             |      |       |       | XEENDB4R  | 02     |          |      |        |                  |       |                     |                    |                    |        |
| 08185   |        | XA548     | 60  |        |           |     |             |      |       |       | SPO       | 01     |          | 00   | 1      | DCF              | C5    |                     | 31B                |                    |        |
| 19125   |        | XA548     | 61  |        |           |     |             |      |       |       | J XEENCX  | 01     | XEENCX   | 00   | 1      | DCF              | D7    |                     | 32A                | XEENDB4 BUSS       |        |
| 19128   |        | XA548     | 61  |        | XA545     | 71  |             | 16B  | 9     |       | P XEENCX  | 01     | XEENDB4  | 01   | 1      | DCF              | D7    |                     | 33A                | DEV ENABLE LINE    |        |
| 01706   |        | XA548     | 62  |        |           |     |             |      |       |       | DNW       | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 01707   |        | XA548     | 63  |        |           |     |             |      |       |       | DNW       | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 01708   |        | XA548     | 64  |        |           |     |             |      |       |       | DNW       | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 19357   |        | XA548     | 65  |        |           |     |             |      |       |       | J XER7CDX | 01     | XER7CDX  | 00   | 1      | DCF              | D1    |                     | 32B                | XER7DB4 BUSS       |        |
| 19362   |        | XA548     | 65  |        | XA545     | 76  |             | 16B  | 9     |       | P XER7CDX | 01     | XER7DB4  | 01   | 1      | DCF              | D1    |                     | 32B                |                    |        |
| 01709   |        | XA548     | 66  |        |           |     |             |      |       |       | DNW       | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 19366   |        | XA548     | 67  |        |           |     |             |      |       |       | XER7DB4R  | 02     |          |      |        |                  |       |                     |                    |                    |        |
| 21323   |        | XA548     | 67  |        |           |     |             |      |       |       | GND       | 01     |          |      |        |                  |       |                     |                    |                    |        |
| 20775   |        | XA548     | 68  |        |           |     |             |      |       |       | M XEENCX  | 01     | XEENCX   | 00   | 1      | DCF              | D8    |                     | 34A                |                    |        |
| 19358   |        | XA548     | 69  |        | XA551     | 47  |             | 16B  | 9     |       | XER7COX   | 01     | XER7COX  | 00   | 1      | DCF              | D2    |                     | 33B                | DEV REQ REC. 7     |        |
| 19120   |        | XA548     | 70  |        | XA550     | 63  |             | 16B  | 9     |       | XEENAO    | 01     | XEENCX   | 01   | 1      | DCF              | D8    |                     | 35A                |                    |        |
| 19134   |        | XA548     | 71  |        | XA546     | 51  |             | 16B  | 9     |       | XEGNDA    | 02     | XER7COX  | 01   | 1      | DCF              | D2    |                     | 34B                |                    |        |
| 19375   |        | XA548     | 72  |        | XA550     | 60  |             | 16B  | 9     |       | XESTBA    | 01     | XER7CDX  | 01   | 1      | DCF              | D1    |                     | 36A                |                    |        |
| 20778   |        | XA548     | 72  |        |           |     |             |      |       |       | M XESTBA  | 01     | XECMCDX  | 01   | 1      | DCF              | D5    |                     | 36A                |                    |        |
| 20779   |        | XA548     | 72  |        |           |     |             |      |       |       | M XESTBA  | 01     | XEENCX   | 01   | 1      | DCF              | D7    |                     | 36A                |                    |        |
| 20780   |        | XA548     | 72  |        |           |     |             |      |       |       | M XESTBA  | 01     | XEINCX   | 01   | 1      | DCF              | D3    |                     | 36A                |                    |        |
| 19133   |        | XA548     | 73  |        | XA548     | 71  |             | 16B  | 9     |       | XEGNDA    | 01     | XEINCX   | 01   | 1      | DCF              | D4    |                     | 35B                |                    |        |
| 19082   |        | XA548     | 74  |        | XA550     | 75  |             | 16B  | 9     |       | XECMAO    | 01     | XECMCOX  | 01   | 1      | DCF              | D6    |                     | 37A                |                    |        |
| 19154   |        | XA548     | 75  |        | XA547     | 51  |             | 16B  | 9     |       | XEINCX    | 01     | XEINCX   | 00   | 1      | DCF              | D4    |                     | 36B                | DEV INDICATOR REC. |        |
| 20752   |        | XA548     | 76  |        |           |     |             |      |       |       | M XECMCOX | 01     | XECMCOX  | 00   | 1      | DCF              | D6    |                     | 38A                |                    |        |
| 19162   |        | XA548     | 77  |        |           |     |             |      |       |       | XEINDB4R  | 02     |          |      |        |                  |       |                     |                    |                    |        |
| 19153   |        | XA548     | 78  |        |           |     |             |      |       |       | J XEINCX  | 01     | XEINCX   | 00   | 1      | DCF              | D3    |                     | 37B                | XEINDB4 BUSS       |        |
| 19158   |        | XA548     | 78  |        | XA545     | 75  |             | 16B  | 9     |       | P XEINCX  | 01     | XEINDB4  | 01   | 1      | DCF              | D3    |                     | 37B                |                    |        |
| 19091   |        | XA548     | 79  |        |           |     |             |      |       |       | XECMDB4R  | 02     |          |      |        |                  |       |                     | 40B                |                    |        |
| 19084   |        | XA548     | 80  |        |           |     |             |      |       |       | J XECMCDX | 01     | XECMCOX  | 00   | 1      | DCF              | D5    |                     | 38B                | XECMDB4 BUSS       |        |
| 19087   |        | XA548     | 80  |        | XA545     | 73  |             | 16B  | 9     |       | P XECMCDX | 01     | XECMDB4  | 01   | 1      | DCF              | D5    |                     | 38B                | DEV COMMAND LINE   |        |
| 19244   |        | XA549     | 01  |        | XA550     | 01  |             | 16B  | 9     |       | XER10S    | 02     | XER10R   | 01   | 1      | TT3              | A2    |                     | 02B                |                    |        |
| 03133   |        | XA549     | 02  |        |           |     |             |      |       |       | GND       | 01     |          |      |        |                  |       |                     | 01B                |                    |        |
| CONNECTOR (XA549) CONTINUED ON THE NEXT PAGE **** |        |           |     |        |           |     |             |      |       |       |           |        |          |      |        |                  |       |                     |                    |                    |        |



DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA549  
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| RECORD NUMBER                                     | FROM   |           |     |       | TO     |           |     |       | WIRE        |      |       | SIGNAL | SEQ NO | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD COP POWER PLANE | TEST POINTS ANCL OR | SIGNAL DESCRIPTION | ECO NO        |
|---|--------|-----------|-----|-------|--------|-----------|-----|-------|-------------|------|-------|--------|--------|----------|-------------|------------------|-------|----------------------|---------------------|--------------------|---------------|
|   | PREFIX | CONNECTOR | PIN | SH FT | PREFIX | CONNECTOR | PIN | SH FT | MULTI GROUP | CODE | COLOR |        |        |          |             |                  |       |                      |                     |                    |               |
| 19237   |        | XA549     | 03  |       | XA550  | 15        |     |       |             | 16B  | 9     |        | XER1RA | 01       | XER10R      | 01               | 2     | TT3                  | A2                  | 02A                |               |
| 19220   |        | XA549     | 04  |       |        |           |     |       |             |      |       |        | XER00R | 02       | XER30R      | 00               | 1     | TT3                  | A1                  | 04A                |               |
| 19173   |        | XA549     | 05  |       | XA549  | 10        |     |       |             | 16B  | 9     |        | XEMRCA | 01       | XER10R      | 01               | 3     | TT3                  | A2                  | 03B                |               |
| 19222   |        | XA549     | 06  |       | XA550  | 06        |     |       |             | 16B  | 9     |        | XER00S | 02       | XER00R      | 01               | 1     | TT3                  | A1                  | 05A                |               |
| 19242   |        | XA549     | 07  |       |        |           |     |       |             |      |       |        | XER10R | 02       | XER10R      | 00               | 1     | TT3                  | A2                  | 03A                |               |
| 19215   |        | XA549     | 08  |       | XA550  | 09        |     |       |             | 16B  | 9     |        | XER0RA | 01       | XER00R      | 01               | 2     | TT3                  | A1                  | 06A                |               |
| 19218   |        | XA549     | 09  |       |        |           |     |       |             |      |       |        | XER00A | 02       | XERE10      | 01               | 1     | TT3                  | A3                  | 04B                |               |
| 19174   |        | XA549     | 10  |       | XA549  | 18        |     |       |             | 16B  | 9     |        | XEMRCA | 02       | XER00R      | 01               | 3     | TT3                  | A1                  | 07A                |               |
| 19240   |        | XA549     | 11  |       |        |           |     |       |             |      |       |        | XER10A | 02       | XERE10      | 01               | 2     | TT3                  | A3                  | 05B                |               |
| 00743   |        | XA549     | 12  |       |        |           |     |       |             |      |       |        | +5V    | 01       |             |                  |       | TT3                  |                     |                    |               |
| 19262   |        | XA549     | 13  |       |        |           |     |       |             |      |       |        | XER20A | 02       | XERE10      | 01               | 3     | TT3                  | A3                  | 06B                |               |
| 19288   |        | XA549     | 14  |       | XA550  | 14        |     |       |             | 16B  | 9     |        | XER30S | 02       | XER30R      | 01               | 1     | TT3                  | B2                  | 09A                |               |
| 19193   |        | XA549     | 15  |       | XA551  | 27        |     |       |             | 16B  | 9     |        | XERE10 | 01       | XERE10      | 00               | 1     | TT3                  | A3                  | 07B                | DEV REQ 0+1+2 |
| 03134   |        | XA549     | 16  |       |        |           |     |       |             |      |       |        | GND    | 01       |             |                  |       | TT3                  |                     | 21B                |               |
| 19281   |        | XA549     | 17  |       | XA550  | 27        |     |       |             | 16B  | 9     |        | XER3RA | 01       | XER30R      | 01               | 2     | TT3                  | B2                  | 08B                |               |
| 19175   |        | XA549     | 18  |       | XA549  | 26        |     |       |             | 16B  | 9     |        | XEMRCA | 03       | XER30R      | 01               | 3     | TT3                  | B2                  | 10A                |               |
| 19286   |        | XA549     | 19  |       |        |           |     |       |             |      |       |        | XER30R | 02       | XER30R      | 00               | 1     | TT3                  | B2                  | 09B                |               |
| 19264   |        | XA549     | 20  |       |        |           |     |       |             |      |       |        | XER20R | 02       | XER20R      | 00               | 1     | TT3                  | B1                  | 11A                |               |
| 19284   |        | XA549     | 21  |       |        |           |     |       |             |      |       |        | XER30A | 02       | XERE20      | 01               | 1     | TT3                  | B3                  | 10B                |               |
| 19266   |        | XA549     | 22  |       | XA550  | 22        |     |       |             | 16B  | 9     |        | XER20S | 02       | XER20R      | 01               | 1     | TT3                  | B1                  | 12A                |               |
| 19306   |        | XA549     | 23  |       |        |           |     |       |             |      |       |        | XER40A | 02       | XERE20      | 01               | 2     | TT3                  | B3                  | 11B                |               |
| 19259   |        | XA549     | 24  |       | XA550  | 21        |     |       |             | 16B  | 9     |        | XER2RA | 01       | XER20R      | 01               | 2     | TT3                  | B1                  | 13A                |               |
| 19328   |        | XA549     | 25  |       |        |           |     |       |             |      |       |        | XER50A | 02       | XERE20      | 01               | 3     | TT3                  | B3                  | 12B                |               |
| 19176   |        | XA549     | 26  |       | XA549  | 34        |     |       |             | 16B  | 9     |        | XEMRCA | 04       | XER20R      | 01               | 3     | TT3                  | B1                  | 14A                |               |
| 19197   |        | XA549     | 27  |       | XA551  | 33        |     |       |             | 16B  | 9     |        | XERE20 | 01       | XERE20      | 00               | 1     | TT3                  | B3                  | 13B                | DEV REQ 3+4+5 |
| 00744   |        | XA549     | 28  |       |        |           |     |       |             |      |       |        | +5V    | 01       |             |                  |       | TT3                  |                     |                    |               |
| 19333   |        | XA549     | 29  |       | XA547  | 33        |     |       |             | 16B  | 9     |        | XER50S | 03       | XER50R      | 01               | 1     | TT3                  | C2                  | 14B                |               |
| 19325   |        | XA549     | 30  |       | XA550  | 39        |     |       |             | 16B  | 9     |        | XER5RA | 01       | XER50R      | 01               | 2     | TT3                  | C2                  | 15A                |               |
| 19330   |        | XA549     | 31  |       |        |           |     |       |             |      |       |        | XER50R | 02       | XER50R      | 00               | 1     | TT3                  | C2                  | 15B                |               |
| 03135   |        | XA549     | 32  |       |        |           |     |       |             |      |       |        | GND    | 01       |             |                  |       | TT3                  |                     | 27A                |               |
| 19192   |        | XA549     | 33  |       |        |           |     |       |             |      |       |        | XERE1A | 02       | XERECO      | 01               | 1     | TT3                  | C3                  | 16B                |               |
| 19177   |        | XA549     | 34  |       | XA549  | 42        |     |       |             | 16B  | 9     |        | XEMRCA | 05       | XER50R      | 01               | 3     | TT3                  | C2                  | 16A                |               |
| 19195   |        | XA549     | 35  |       | XA551  | 31        |     |       |             | 16B  | 9     |        | XERE2A | 01       | XERECO      | 01               | 2     | TT3                  | C3                  | 17B                |               |
| 19308   |        | XA549     | 36  |       |        |           |     |       |             |      |       |        | XER40R | 02       | XER40R      | 00               | 1     | TT3                  | C1                  | 17A                |               |
| 19199   |        | XA549     | 37  |       | XA551  | 42        |     |       |             | 16B  | 9     |        | XERE3A | 01       | XERECO      | 01               | 3     | TT3                  | C3                  | 18B                |               |
| 19310   |        | XA549     | 38  |       | XA550  | 38        |     |       |             | 16B  | 9     |        | XER40S | 02       | XER40R      | 01               | 1     | TT3                  | C1                  | 18A                |               |
| 19169   |        | XA549     | 39  |       | XA548  | 49        |     |       |             | 16B  | 9     |        | XERECO | 01       | XEPECO      | 00               | 1     | TT3                  | C3                  | 19B                | DEV OR D REQ  |
| 19303   |        | XA549     | 40  |       | XA550  | 33        |     |       |             | 16B  | 9     |        | XER4RA | 01       | XER40R      | 01               | 2     | TT3                  | C1                  | 19A                |               |
| 19373   |        | XA549     | 41  |       | XA547  | 34        |     |       |             | 16B  | 9     |        | XER70S | 02       | XER70R      | 01               | 1     | TT3                  | D2                  | 22B                |               |
| 19178   |        | XA549     | 42  |       | XA549  | 48        |     |       |             | 16B  | 9     |        | XEMRCA | 06       | XER40R      | 01               | 3     | TT3                  | C1                  | 20A                |               |
| 19369   |        | XA549     | 43  |       | XA550  | 50        |     |       |             | 16B  | 9     |        | XER70R | 01       | XER70R      | 00               | 1     | TT3                  | D2                  | 23B                |               |
| 03136   |        | XA549     | 44  |       |        |           |     |       |             |      |       |        | GND    | 01       |             |                  |       | TT3                  |                     | 40A                |               |
| 19146   |        | XA549     | 45  |       | XA549  | 53        |     |       |             | 16B  | 9     |        | XEICSO | 01       | XECSDA      | 01               | 1     | TT3                  | D3                  | 24B                |               |
| 19368   |        | XA549     | 46  |       |        |           |     |       |             |      |       |        | XER7RA | 02       | XER70R      | 01               | 2     | TT3                  | D2                  | 21A                |               |
| 19140   |        | XA549     | 47  |       | XA549  | 60        |     |       |             | 16B  | 9     |        | XEICRO | 01       | XECSDA      | 01               | 2     | TT3                  | D3                  | 25B                |               |
| 19179   |        | XA549     | 48  |       | XA549  | 56        |     |       |             | 16B  | 9     |        | XEMRCA | 07       | XER70R      | 01               | 3     | TT3                  | D2                  | 22A                |               |
| 19163   |        | XA549     | 49  |       | XA550  | 57        |     |       |             | 16B  | 9     |        | XEINTA | 01       | XECSDA      | 01               | 3     | TT3                  | D3                  | 26B                |               |
| 19351   |        | XA549     | 50  |       |        |           |     |       |             |      |       |        | XER60R | 03       | XER60R      | 00               | 1     | TT3                  | D1                  | 23A                |               |
| 19058   |        | XA549     | 51  |       | XA548  | 36        |     |       |             | 16B  | 9     |        | XECSDA | 02       | XECSDA      | 00               | 1     | TT3                  | D3                  | 27B                | CH.SEL.INTER* |
| 19353   |        | XA549     | 52  |       | XA550  | 52        |     |       |             | 16B  | 9     |        | XER60S | 02       | XER60R      | 01               | 1     | TT3                  | D1                  | 24A                |               |
| CONNECTOR (XA549) CONTINUED ON THE NEXT PAGE **** |        |           |     |       |        |           |     |       |             |      |       |        |        |          |             |                  |       |                      |                     |                    |               |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA549  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 438

| RECORD NUMBER                                     | FROM   |           |     | Z | TO     |           |     | SH FE | WIRE        |      |       | SPEC INST | SIGNAL  | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PL. LINE | TEST POINTS |     | SIGNAL DESCRIPTION | ECO NO |
|---|--------|-----------|-----|---|--------|-----------|-----|-------|-------------|------|-------|-----------|---------|--------|----------|------|------|------------------|-------|------------------------|-------------|-----|--------------------|--------|
|   | PREFIX | CONNECTOR | PIN |   | PREFIX | CONNECTOR | PIN |       | MULTI GROUP | CODE | COLOR |           |         |        |          |      |      |                  |       |                        | IDENT       | AND |                    |        |
| 19147   |        | XA549     | 53  |   |        | XA549     | 75  |       |             | 168  | 9     |           | XEICS0  | 01     | XECSEA   | 01   | 1    | TT3              | E2    |                        | 28B         |     |                    |        |
| 19347   |        | XA549     | 54  |   |        | XA550     | 45  |       |             | 168  | 9     |           | XER6RA  | 02     | XER6OR   | 01   | 2    | TT3              | O1    |                        | 25A         |     |                    |        |
| 19103   |        | XA549     | 55  |   |        |           |     |       |             |      |       |           | XECSEA  | 03     | XECSEA   | 00   | 1    | TT3              | E2    |                        | 29B         |     | CH. SEL. ENABLE    |        |
| 19180   |        | XA549     | 56  |   |        | XA550     | 72  |       |             | 168  | 9     |           | XEMRCA  | 08     | XER6OR   | 01   | 3    | TT3              | O1    |                        | 26A         |     |                    |        |
| 19123   |        | XA549     | 57  |   |        | XA551     | 57  |       |             | 168  | 9     |           | XEENBO  | 02     | XEMRDA   | 01   | 1    | TT3              | E3    |                        | 30B         |     |                    |        |
| 03137   |        | XA549     | 58  |   |        |           |     |       |             |      |       |           | GND     | 01     |          |      |      | TT3              |       |                        | 40B         |     |                    |        |
| 19093   |        | XA549     | 59  |   |        | XA551     | 68  |       |             | 168  | 9     |           | XECM00  | 02     | XEMRDA   | 01   | 2    | TT3              | E3    |                        | 31B         |     |                    |        |
| 19141   |        | XA549     | 60  |   |        | XA549     | 68  |       |             | 168  | 9     |           | XEICRO  | 02     | XECSEA   | 01   | 2    | TT3              | E2    |                        | 28A         |     |                    |        |
| 06247   |        | XA549     | 61  |   |        | XA547     | 54  |       |             | 168  | 9     |           | SPI044  | 23     | XEMRDA   | 01   | 3    | TT3              | E3    |                        | 32B         |     |                    |        |
| 19122   |        | XA549     | 62  |   |        | XA549     | 57  |       |             | 168  | 9     |           | XEENBO  | 01     | XECSEA   | 01   | 3    | TT3              | E2    |                        | 29A         |     |                    |        |
| 19183   |        | XA549     | 63  |   |        | XA550     | 61  |       |             | 168  | 9     |           | XEMRDA  | 02     | XEMRDA   | 00   | 1    | TT3              | E3    |                        | 33B         |     | DEV RESET          |        |
| 19116   |        | XA549     | 64  |   |        | XA546     | 52  |       |             | 168  | 9     |           | XECSSA  | 01     | XECSSA   | 00   | 1    | TT3              | E1    |                        | 30A         |     | CH. SEL. STROBE    |        |
| 19149   |        | XA549     | 65  |   |        | XA549     | 66  |       |             | 168  | 9     |           | XEICS0  | 04     | XECSSA   | 01   | 1    | TT3              | F2    |                        | 34B         |     |                    |        |
| 19150   |        | XA549     | 66  |   |        | XA551     | 66  |       |             | 168  | 9     |           | XEICS0  | 05     | XECSSA   | 01   | 1    | TT3              | E1    |                        | 31A         |     |                    |        |
| 03138   |        | XA549     | 67  |   |        |           |     |       |             |      |       |           | GND     | 01     |          |      |      | TT3              |       |                        |             |     |                    |        |
| 19142   |        | XA549     | 68  |   |        | XA551     | 63  |       |             | 168  | 9     |           | XEICRO  | 03     | XECSSA   | 01   | 2    | TT3              | E1    |                        | 32A         |     |                    |        |
| 06246   |        | XA549     | 69  |   |        | XA549     | 61  |       |             | 168  | 9     |           | SPI044  | 22     |          | 01   | 1    | TT3              | F3    |                        | 35A         |     |                    |        |
| 19378   |        | XA549     | 70  |   |        | XA550     | 64  |       |             | 168  | 9     |           | XESTB0  | 02     | XECSSA   | 01   | 3    | TT3              | E1    |                        | 33A         |     |                    |        |
| 19144   |        | XA549     | 71  |   |        | XA549     | 77  |       |             | 168  | 9     |           | XEICRO  | 05     | XECSSA   | 01   | 2    | TT3              | F2    |                        | 36A         |     |                    |        |
| 19167   |        | XA549     | 72  |   |        |           |     |       |             |      |       |           | XEINT0  | 03     | XECSSA   | 01   | 3    | TT3              | F2    |                        | 34A         |     |                    |        |
| 19096   |        | XA549     | 73  |   |        |           |     |       |             |      |       |           | XECSCA  | 02     | XECSCA   | 00   | 1    | TT3              | F1    |                        | 36B         |     | CH. SEL. COMMAND   |        |
| 19115   |        | XA549     | 74  |   |        |           |     |       |             |      |       |           | XECSSA  | 03     | XECSSA   | 00   | 1    | TT3              | F2    |                        | 35B         |     | CH. SEL. INTER     |        |
| 19148   |        | XA549     | 75  |   |        | XA549     | 65  |       |             | 168  | 9     |           | XEICS0  | 03     | XECSCA   | 01   | 1    | TT3              | F1    |                        | 37B         |     |                    |        |
| 06268   |        | XA549     | 76  |   |        | XA550     | 78  |       |             | 168  | 9     |           | SPI045  | 05     |          | 01   | 2    | TT3              | F3    |                        | 37A         |     |                    |        |
| 19145   |        | XA549     | 77  |   |        |           |     |       |             |      |       |           | XEICRO  | 06     | XECSCA   | 01   | 2    | TT3              | F1    |                        | 38B         |     |                    |        |
| 06001   |        | XA549     | 78  |   |        | XA547     | 73  |       |             | 168  | 9     |           | SPI037  | 19     |          | 01   | 3    | TT3              | F3    |                        | 38A         |     |                    |        |
| 19092   |        | XA549     | 79  |   |        | XA549     | 59  |       |             | 168  | 9     |           | XECM00  | 01     | XECSCA   | 01   | 3    | TT3              | F1    |                        | 39B         |     |                    |        |
| 08186   |        | XA549     | 80  |   |        |           |     |       |             |      |       |           | SPJ     | 01     |          | 00   | 1    | TT3              | F3    |                        | 39A         |     |                    |        |
| 19245   |        | XA550     | 01  |   |        | XA551     | 05  |       |             | 168  | 9     |           | XER10S  | 03     | XER10S   | 00   | 1    | TQ2              | A2    |                        | 02B         |     | DEV REQ 1          |        |
| 03135   |        | XA550     | 02  |   |        |           |     |       |             |      |       |           | GND     | 01     |          |      |      | TQ2              |       |                        | 01A         |     |                    |        |
| 19397   |        | XA550     | 03  |   |        |           |     |       |             |      |       |           | XE00COX | 03     | XER0RA   | 01   | 1    | TQ2              | A3    |                        | 02A         |     |                    |        |
| 19225   |        | XA550     | 04  |   |        | XA551     | 08  |       |             | 168  | 9     |           | XER1CA  | 01     | XER10S   | 01   | 1    | TQ2              | A2    |                        | 04A         |     |                    |        |
| 19241   |        | XA550     | 05  |   |        | XA549     | 07  |       |             | 168  | 9     |           | XER10R  | 01     | XER10S   | 01   | 2    | TQ2              | A2    |                        | 03B         |     |                    |        |
| 19223   |        | XA550     | 06  |   |        | XA551     | 04  |       |             | 168  | 9     |           | XER00S  | 03     | XER00S   | 00   | 1    | TQ2              | A1    |                        | 05A         |     | DEV REQ 0          |        |
| 19112   |        | XA550     | 07  |   |        |           |     |       |             |      |       |           | XECSE0  | 09     | XER0RA   | 01   | 2    | TQ2              | A3    |                        | 03A         |     |                    |        |
| 19203   |        | XA550     | 08  |   |        | XA551     | 13  |       |             | 168  | 9     |           | XER0CA  | 01     | XER00S   | 01   | 1    | TQ2              | A1    |                        | 06A         |     |                    |        |
| 19216   |        | XA550     | 09  |   |        |           |     |       |             |      |       |           | XER0RA  | 02     | XER0RA   | 00   | 1    | TQ2              | A3    |                        | 04B         |     |                    |        |
| 19219   |        | XA550     | 10  |   |        | XA549     | 04  |       |             | 168  | 9     |           | XER00R  | 01     | XER00S   | 01   | 2    | TQ2              | A1    |                        | 07A         |     |                    |        |
| 19408   |        | XA550     | 11  |   |        | XA548     | 13  |       |             | 168  | 9     |           | XE01COX | 01     | XER1RA   | 01   | 1    | TQ2              | A4    |                        | 05B         |     |                    |        |
| 00745   |        | XA550     | 12  |   |        |           |     |       |             |      |       |           | +5V     | 01     |          |      |      | TQ2              |       |                        |             |     |                    |        |
| 19111   |        | XA550     | 13  |   |        | XA550     | 07  |       |             | 168  | 9     |           | XECSE0  | 08     | XER1RA   | 01   | 2    | TQ2              | A4    |                        | 06B         |     |                    |        |
| 19289   |        | XA550     | 14  |   |        | XA551     | 17  |       |             | 168  | 9     |           | XER30S  | 03     | XER30S   | 00   | 1    | TQ2              | B2    |                        | 09A         |     | DEV REQ 3          |        |
| 19238   |        | XA550     | 15  |   |        |           |     |       |             |      |       |           | XER1RA  | 02     | XER1RA   | 00   | 1    | TQ2              | A4    |                        | 07B         |     |                    |        |
| 03140   |        | XA550     | 16  |   |        |           |     |       |             |      |       |           | GND     | 01     |          |      |      | TQ2              |       |                        | 01B         |     |                    |        |
| 19423   |        | XA550     | 17  |   |        |           |     |       |             |      |       |           | XE02COX | 03     | XER2RA   | 01   | 1    | TQ2              | B3    |                        | 08B         |     |                    |        |
| 19269   |        | XA550     | 18  |   |        | XA551     | 25  |       |             | 168  | 9     |           | XER3CA  | 01     | XER30S   | 01   | 1    | TQ2              | B2    |                        | 10A         |     |                    |        |
| 19110   |        | XA550     | 19  |   |        | XA550     | 13  |       |             | 168  | 9     |           | XECSE0  | 07     | XER2RA   | 01   | 2    | TQ2              | B3    |                        | 09B         |     |                    |        |
| 19285   |        | XA550     | 20  |   |        | XA549     | 19  |       |             | 168  | 9     |           | XER30R  | 01     | XER30S   | 01   | 2    | TQ2              | B2    |                        | 11A         |     |                    |        |
| CONNECTOR (XA550) CONTINUED ON THE NEXT PAGE **** |        |           |     |   |        |           |     |       |             |      |       |           |         |        |          |      |      |                  |       |                        |             |     |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA550  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 439

| RECORD NUMBER | FROM      |           |                                 |       | TO     |           |     |       | WIRE        |      |        |       | SIGNAL  | SEC NO | EQUATION | TERMS | FACTORS | CCT OR CHIP TYPE | QWAF | LOAD OR POWER PLANE | TECH POINTS (END OF) | SIGNAL DESCRIPTION | ECO NO |
|---------------|-----------|-----------|---------------------------------|-------|--------|-----------|-----|-------|-------------|------|--------|-------|---------|--------|----------|-------|---------|------------------|------|---------------------|----------------------|--------------------|--------|
|               | PREFIX    | CONNECTOR | PIN                             | SH-10 | PREFIX | CONNECTOR | PIN | SH-10 | MULTI GROUP | CODE | COI 18 | IDENT |         |        |          |       |         |                  |      |                     |                      |                    |        |
| 19260         |           | XA550     | 21                              |       |        |           |     |       |             |      |        |       | XER2RA  | 02     | XER2RA   | 00    | 1       | TQ2              | B3   |                     | 10B                  |                    |        |
| 19267         |           | XA550     | 22                              |       | XA551  | 20        |     |       | 16B         | 9    |        |       | XER20S  | 03     | XER20S   | 00    | 1       | TQ2              | B1   |                     | 12A                  | DEV REQ 2          |        |
| 19436         |           | XA550     | 23                              |       |        |           |     |       |             |      |        |       | XE03COX | 03     | XER3RA   | 01    | 1       | TQ2              | B4   |                     | 11B                  |                    |        |
| 19247         |           | XA550     | 24                              |       | XA551  | 24        |     |       | 16B         | 9    |        |       | XER2CA  | 01     | XER20S   | 01    | 1       | TQ2              | B1   |                     | 13A                  |                    |        |
| 19109         |           | XA550     | 25                              |       | XA550  | 19        |     |       | 16B         | 9    |        |       | XECSE0  | 06     | XER3RA   | 01    | 2       | TQ2              | B4   |                     | 12B                  |                    |        |
| 19263         |           | XA550     | 26                              |       | XA549  | 20        |     |       | 16B         | 9    |        |       | XER20P  | 01     | XER20S   | 01    | 2       | TQ2              | B1   |                     | 14A                  |                    |        |
| 19282         |           | XA550     | 27                              |       |        |           |     |       |             |      |        |       | XER3RA  | 02     | XER3RA   | 00    | 1       | TQ2              | B4   |                     | 13B                  |                    |        |
| 00746         |           | XA550     | 28                              |       |        |           |     |       |             |      |        |       | +5V     | 01     |          |       | 1       | TQ2              |      |                     |                      |                    |        |
| 19447         |           | XA550     | 29                              |       | XA548  | 31        |     |       | 16B         | 9    |        |       | XE04COX | 01     | XER4RA   | 01    | 1       | TQ2              | C3   |                     | 14B                  |                    |        |
| 19332         |           | XA550     | 30                              |       | XA549  | 29        |     |       | 16B         | 9    |        |       | XER50S  | 02     | XER50S   | 00    | 1       | TQ2              | C2   |                     | 15A                  | DEV REQ 5          |        |
| 19108         |           | XA550     | 31                              |       | XA550  | 25        |     |       | 16B         | 9    |        |       | XECSE0  | 05     | XER4RA   | 01    | 2       | TQ2              | C3   |                     | 15B                  |                    |        |
| 03141         |           | XA550     | 32                              |       |        |           |     |       |             |      |        |       | GND     | 01     |          |       |         | TQ2              |      |                     | 20P                  |                    |        |
| 19304         |           | XA550     | 33                              |       |        |           |     |       |             |      |        |       | XER4RA  | 02     | XER4RA   | 00    | 1       | TQ2              | C3   |                     | 16B                  |                    |        |
| 19313         |           | XA550     | 34                              |       | XA551  | 37        |     |       | 16B         | 9    |        |       | XER5CA  | 01     | XER50S   | 01    | 1       | TQ2              | C2   |                     | 16A                  |                    |        |
| 19460         |           | XA550     | 35                              |       | XA548  | 33        |     |       | 16B         | 9    |        |       | XE05COX | 01     | XER5RA   | 01    | 1       | TQ2              | C4   |                     | 17B                  |                    |        |
| 19329         |           | XA550     | 36                              |       | XA549  | 31        |     |       | 16B         | 9    |        |       | XER50R  | 01     | XER50S   | 01    | 2       | TQ2              | C2   |                     | 17A                  |                    |        |
| 19107         |           | XA550     | 37                              |       | XA550  | 31        |     |       | 16B         | 9    |        |       | XECSE0  | 04     | XER5RA   | 01    | 2       | TQ2              | C4   |                     | 18B                  |                    |        |
| 19311         |           | XA550     | 38                              |       | XA551  | 36        |     |       | 16B         | 9    |        |       | XER40S  | 03     | XER40S   | 00    | 1       | TQ2              | C1   |                     | 18A                  | DEV REQ 4          |        |
| 19326         |           | XA550     | 39                              |       |        |           |     |       |             |      |        |       | XER5RA  | 02     | XER5RA   | 00    | 1       | TQ2              | C4   |                     | 19B                  |                    |        |
| 19291         |           | XA550     | 40                              |       | XA551  | 40        |     |       | 16B         | 9    |        |       | XER4CA  | 01     | XER40S   | 01    | 1       | TQ2              | C1   |                     | 19A                  |                    |        |
| 19473         |           | XA550     | 41                              |       | XA548  | 38        |     |       | 16B         | 9    |        |       | XE06COX | 01     | XER6RA   | 01    | 1       | TQ2              | D3   |                     | 22B                  |                    |        |
| 19307         |           | XA550     | 42                              |       | XA549  | 36        |     |       | 16B         | 9    |        |       | XER40R  | 01     | XER40S   | 01    | 2       | TQ2              | C1   |                     | 20A                  |                    |        |
| 19106         |           | XA550     | 43                              |       | XA550  | 37        |     |       | 16B         | 9    |        |       | XECSE0  | 03     | XER6RA   | 01    | 2       | TQ2              | D3   |                     | 23B                  |                    |        |
| 03142         |           | XA550     | 44                              |       |        |           |     |       |             |      |        |       | GND     | 01     |          |       |         | TQ2              |      |                     | 21B                  |                    |        |
| 19348         |           | XA550     | 45                              |       |        |           |     |       |             |      |        |       | XER6RA  | 02     | XER6PA   | 00    | 1       | TQ2              | D3   |                     | 24B                  |                    |        |
| 19372         |           | XA550     | 46                              |       | XA549  | 41        |     |       | 16B         | 9    |        |       | XER70S  | 01     | XER70S   | 00    | 1       | TQ2              | D2   |                     | 21A                  | DEV REQ 7          |        |
| 19488         |           | XA550     | 47                              |       |        |           |     |       |             |      |        |       | XE07COX | 03     | XER7RA   | 01    | 1       | TQ2              | D4   |                     | 25B                  |                    |        |
| 19356         |           | XA550     | 48                              |       |        |           |     |       |             |      |        |       | XER7CA  | 02     | XER70S   | 01    | 1       | TQ2              | D2   |                     | 22A                  |                    |        |
| 19105         |           | XA550     | 49                              |       | XA550  | 43        |     |       | 16B         | 9    |        |       | XECSE0  | 02     | XER7RA   | 01    | 2       | TQ2              | D4   |                     | 26B                  |                    |        |
| 19370         |           | XA550     | 50                              |       | XA550  | 70        |     |       | 16B         | 9    |        |       | XER70R  | 02     | XER70S   | 01    | 2       | TQ2              | D2   |                     | 23A                  |                    |        |
| 19367         |           | XA550     | 51                              |       | XA549  | 46        |     |       | 16B         | 9    |        |       | XER7RA  | 01     | XER7RA   | 00    | 1       | TQ2              | D4   |                     | 27B                  |                    |        |
| 19354         |           | XA550     | 52                              |       |        |           |     |       |             |      |        |       | XER60S  | 03     | XER60S   | 01    | 1       | TQ2              | D1   |                     | 24A                  | DEV REQ 6          |        |
| 19166         |           | XA550     | 53                              |       | XA549  | 72        |     |       | 16B         | 9    |        |       | XEINT0  | 02     | XEINTA   | 01    | 1       | TQ2              | E3   |                     | 28B                  |                    |        |
| 19335         |           | XA550     | 54                              |       | XA551  | 54        |     |       | 16B         | 9    |        |       | XER6CA  | 01     | XER60S   | 01    | 1       | TQ2              | D1   |                     | 25A                  |                    |        |
| 06250         |           | XA550     | 55                              |       | XA550  | 62        |     |       | 16B         | 9    |        |       | SPIO44  | 26     | XEINTA   | 01    | 2       | TQ2              | E3   |                     | 29B                  |                    |        |
| 19350         |           | XA550     | 56                              |       | XA549  | 50        |     |       | 16B         | 9    |        |       | XER60R  | 02     | XER60S   | 01    | 2       | TQ2              | D1   |                     | 26A                  |                    |        |
| 19164         |           | XA550     | 57                              |       |        |           |     |       |             |      |        |       | XEINTA  | 02     | XEINTA   | 00    | 1       | TQ2              | E3   |                     | 30P                  |                    |        |
| 03143         |           | XA550     | 58                              |       |        |           |     |       |             |      |        |       | GND     | 01     |          |       |         | TQ2              |      |                     | 27A                  |                    |        |
| 19102         |           | XA550     | 59                              |       | XA549  | 55        |     |       | 16B         | 9    |        |       | XECSEA  | 02     | XEENAO   | 01    | 1       | TQ2              | E4   |                     | 31B                  |                    |        |
| 19376         |           | XA550     | 60                              |       |        |           |     |       |             |      |        |       | XESTBA  | 02     | XESTBA   | 00    | 1       | TQ2              | E2   |                     | 28A                  |                    |        |
| 19184         |           | XA550     | 61                              |       | XA551  | 41        |     |       | 16B         | 9    |        |       | XEMRDA  | 03     | XEENAO   | 01    | 2       | TQ2              | E4   |                     | 32B                  |                    |        |
| 06251         |           | XA550     | 62                              |       | XA550  | 65        |     |       | 16B         | 9    |        |       | SPIO44  | 27     | XESTBA   | 01    | 1       | TQ2              | E2   |                     | 29A                  |                    |        |
| 19121         |           | XA550     | 63                              |       |        |           |     |       |             |      |        |       | XEENAO  | 02     | XEENAO   | 00    | 1       | TQ2              | E4   |                     | 33B                  | DEV ENABLE         |        |
| 19379         |           | XA550     | 64                              |       | XA551  | 56        |     |       | 16B         | 9    |        |       | XESTB0  | 03     | XESTBA   | 01    | 2       | TQ2              | E2   |                     | 30A                  |                    |        |
| 06252         |           | XA550     | 65                              |       | XA551  | 69        |     |       | 16B         | 9    |        |       | SPIO44  | 28     |          | 01    | 1       | TQ2              | F3   |                     | 34B                  |                    |        |
| 19202         |           | XA550     | 66                              |       |        |           |     |       |             |      |        |       | XERE30  | 02     | XERE30   | 00    | 1       | TQ2              | E1   |                     | 31A                  | DEV REQ 6+7        |        |
| 03144         |           | XA550     | 67                              |       |        |           |     |       |             |      |        |       | GND     | 01     |          |       |         | TQ2              |      |                     | 40A                  |                    |        |
| 19349         |           | XA550     | 68                              |       | XA550  | 56        |     |       | 16B         | 9    |        |       | XER60R  | 01     | XERE30   | 01    | 1       | TQ2              | E1   |                     | 32A                  |                    |        |
| 08187         |           | XA550     | 69                              |       |        |           |     |       |             |      |        |       | SPO     | 01     |          | 00    | 1       | TQ2              | F3   |                     | 35A                  |                    |        |
| 19371         |           | XA550     | 70                              |       |        |           |     |       |             |      |        |       | XER70R  | 03     | XERE30   | 01    | 2       | TQ2              | E1   |                     | 33A                  |                    |        |
|               | CONNECTOR | XA550     | CONTINUED ON THE NEXT PAGE **** |       |        |           |     |       |             |      |        |       |         |        |          |       |         |                  |      |                     |                      |                    |        |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA550  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 440

| RECORD NUMBER                                     | FROM   |           |     |    | TO     |           |     |    | WIRE        |      |       | SIGNAL | SEQ NO  | EQUATION | TERM FACTOR | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND/OR | SIGNAL DESCRIPTION | ECO NO       |
|---|--------|-----------|-----|----|--------|-----------|-----|----|-------------|------|-------|--------|---------|----------|-------------|------------------|-------|---------------------|--------------------|--------------------|--------------|
|   | PREFIX | CONNECTOR | PIN | SH | PREFIX | CONNECTOR | PIN | SH | MULTI GROUP | CODE | COLOR |        |         |          |             |                  |       |                     |                    |                    |              |
| 19187   |        | XA550     | 71  |    |        |           |     |    |             |      |       |        | XEMRDO  | 02       | XEMRCA      | 01               | 1     | TQ2                 | F2                 | 36A                | ENB.CMD.STB. |
| 19181   |        | XA550     | 72  |    |        |           |     |    |             |      |       |        | XEMRCA  | 09       | XEMRCA      | 03               | 1     | TQ2                 | F2                 | 34A                |              |
| 19377   |        | XA550     | 73  |    |        | XA549     | 70  |    |             | 16B  | 9     |        | XESTB0  | 01       | XEMRCA      | 01               | 2     | TQ2                 | F2                 | 36B                |              |
| 06270   |        | XA550     | 74  |    |        | XA548     | 54  |    |             | 16B  | 9     |        | SPI045  | 07       |             | 01               | 2     | TQ2                 | F3                 | 35B                |              |
| 19083   |        | XA550     | 75  |    |        |           |     |    |             |      |       |        | XECMA0  | 02       | XECMA0      | 03               | 1     | TQ2                 | F1                 | 37B                |              |
| 06256   |        | XA550     | 76  |    |        | XA551     | 79  |    |             | 16B  | 9     |        | SPI044  | 32       |             | 01               | 1     | TQ2                 | F4                 | 37A                |              |
| 19182   |        | XA550     | 77  |    |        | XA549     | 63  |    |             | 16B  | 9     |        | XEMRDA  | 01       | XECMA0      | 01               | 1     | TQ2                 | F1                 | 38B                |              |
| 06269   |        | XA550     | 78  |    |        | XA550     | 74  |    |             | 16B  | 9     |        | SPI045  | 06       |             | 01               | 2     | TQ2                 | F4                 | 38A                |              |
| 19095   |        | XA550     | 79  |    |        | XA549     | 73  |    |             | 16B  | 9     |        | XECSCA  | 01       | XECMA0      | 01               | 2     | TQ2                 | F1                 | 39B                |              |
| 08188   |        | XA550     | 80  |    |        |           |     |    |             |      |       |        | SPO     | 01       |             | 03               | 1     | TQ2                 | F4                 | 39A                |              |
| 19239   |        | XA551     | 01  |    |        | XA549     | 11  |    |             | 16B  | 9     |        | XER10A  | 01       | XER10A      | 03               | 1     | THI                 | A4                 | 02B                |              |
| 03145   |        | XA551     | 02  |    |        |           |     |    |             |      |       |        | GND     | 01       |             |                  |       | THI                 |                    | 01A                |              |
| 19217   |        | XA551     | 03  |    |        | XA549     | 09  |    |             | 16B  | 9     |        | XER00A  | 01       | XER00A      | 00               | 1     | THI                 | A3                 | 03A                |              |
| 19224   |        | XA551     | 04  |    |        |           |     |    |             |      |       |        | XERJ0S  | 04       | XER00A      | 01               | 1     | THI                 | A3                 | 02A                |              |
| 19246   |        | XA551     | 05  |    |        |           |     |    |             |      |       |        | XER10S  | 04       | XER10A      | 01               | 1     | THI                 | A4                 | 03B                |              |
| 19229   |        | XA551     | 06  |    |        |           |     |    |             |      |       |        | XER1COX | 02       | XER1CA      | 01               | 1     | THI                 | A2                 | 05A                |              |
| 08189   |        | XA551     | 07  |    |        |           |     |    |             |      |       |        | SPO     | 01       |             | 00               | 1     | THI                 | A5                 | 04B                |              |
| 19226   |        | XA551     | 08  |    |        |           |     |    |             |      |       |        | XER1CA  | 02       | XER1CA      | 00               | 1     | THI                 | A2                 | 04A                |              |
| 06263   |        | XA551     | 09  |    |        |           |     |    |             |      |       |        | SPI044  | 39       |             | 01               | 1     | THI                 | A5                 | 05B                |              |
| 08190   |        | XA551     | 10  |    |        |           |     |    |             |      |       |        | SPO     | 01       |             | 00               | 1     | THI                 | A6                 | 06B                |              |
| 19207   |        | XA551     | 11  |    |        |           |     |    |             |      |       |        | XER0COX | 02       | XER0CA      | 01               | 1     | THI                 | A1                 | 07A                |              |
| 00747   |        | XA551     | 12  |    |        |           |     |    |             |      |       |        | +5V     | 01       |             |                  |       | THI                 |                    |                    |              |
| 19204   |        | XA551     | 13  |    |        |           |     |    |             |      |       |        | XER0CA  | 02       | XER0CA      | 00               | 1     | THI                 | A1                 | 06A                |              |
| 19283   |        | XA551     | 14  |    |        | XA549     | 21  |    |             | 16B  | 9     |        | XER30A  | 01       | XER30A      | 00               | 1     | THI                 | B4                 | 08B                |              |
| 06262   |        | XA551     | 15  |    |        | XA551     | 09  |    |             | 16B  | 9     |        | SPI044  | 38       |             | 01               | 1     | THI                 | A6                 | 07B                |              |
| 03146   |        | XA551     | 16  |    |        |           |     |    |             |      |       |        | GND     | 01       |             |                  |       | THI                 |                    | 20B                |              |
| 19290   |        | XA551     | 17  |    |        |           |     |    |             |      |       |        | XER30S  | 04       | XER30A      | 01               | 1     | THI                 | B4                 | 09B                |              |
| 19261   |        | XA551     | 18  |    |        | XA549     | 13  |    |             | 16B  | 9     |        | XER20A  | 01       | XER20A      | 00               | 1     | THI                 | B3                 | 09A                |              |
| 19139   |        | XA551     | 19  |    |        |           |     |    |             |      |       |        | XEGNDA  | 07       | XEGNDA      | 00               | 1     | THI                 | B5                 | 10B                |              |
| 19268   |        | XA551     | 20  |    |        |           |     |    |             |      |       |        | XER20S  | 04       | XER20A      | 01               | 1     | THI                 | B3                 | 10A                |              |
| 06296   |        | XA551     | 21  |    |        |           |     |    |             |      |       |        | SPI301  | 13       | XEGNDA      | 01               | 1     | THI                 | B5                 | 11B                |              |
| 19251   |        | XA551     | 22  |    |        |           |     |    |             |      |       |        | XER2COX | 02       | XER2CA      | 01               | 1     | THI                 | B1                 | 14A                |              |
| 19273   |        | XA551     | 23  |    |        |           |     |    |             |      |       |        | XER3COX | 02       | XER3CA      | 01               | 1     | THI                 | B2                 | 12A                |              |
| 19248   |        | XA551     | 24  |    |        |           |     |    |             |      |       |        | XER2CA  | 02       | XER2CA      | 00               | 1     | THI                 | B1                 | 13A                |              |
| 19270   |        | XA551     | 25  |    |        |           |     |    |             |      |       |        | XER3CA  | 02       | XER3CA      | 00               | 1     | THI                 | B2                 | 11A                |              |
| 19191   |        | XA551     | 26  |    |        | XA549     | 33  |    |             | 16B  | 9     |        | XERE1A  | 01       | XERE1A      | 00               | 1     | THI                 | B6                 | 12B                |              |
| 19194   |        | XA551     | 27  |    |        |           |     |    |             |      |       |        | XERE10  | 02       | XERE1A      | 01               | 1     | THI                 | B6                 | 13B                |              |
| 00748   |        | XA551     | 28  |    |        |           |     |    |             |      |       |        | +5V     | 01       |             |                  |       | THI                 |                    |                    |              |
| 19331   |        | XA551     | 29  |    |        | XA550     | 30  |    |             | 16B  | 9     |        | XER50S  | 01       | XER50A      | 01               | 1     | THI                 | C4                 | 15B                |              |
| 19327   |        | XA551     | 30  |    |        | XA549     | 25  |    |             | 16B  | 9     |        | XER50A  | 01       | XER50A      | 00               | 1     | THI                 | C4                 | 14B                |              |
| 19196   |        | XA551     | 31  |    |        |           |     |    |             |      |       |        | XERE2A  | 02       | XERE2A      | 00               | 1     | THI                 | C5                 | 16B                |              |
| 03147   |        | XA551     | 32  |    |        |           |     |    |             |      |       |        | GND     | 01       |             |                  |       | THI                 |                    | 21B                |              |
| 19198   |        | XA551     | 33  |    |        |           |     |    |             |      |       |        | XERE20  | 02       | XERE2A      | 01               | 1     | THI                 | C5                 | 17B                |              |
| 19305   |        | XA551     | 34  |    |        | XA549     | 23  |    |             | 16B  | 9     |        | XER40A  | 01       | XER40A      | 00               | 1     | THI                 | C3                 | 15A                |              |
| 19317   |        | XA551     | 35  |    |        |           |     |    |             |      |       |        | XER5COX | 02       | XER5CA      | 01               | 1     | THI                 | C2                 | 18A                |              |
| 19312   |        | XA551     | 36  |    |        |           |     |    |             |      |       |        | XER40S  | 04       | XER40A      | 01               | 1     | THI                 | C3                 | 16A                |              |
| 19314   |        | XA551     | 37  |    |        |           |     |    |             |      |       |        | XER5CA  | 02       | XER5CA      | 00               | 1     | THI                 | C2                 | 17A                |              |
| 19295   |        | XA551     | 38  |    |        |           |     |    |             |      |       |        | XER4COX | 02       | XER4CA      | 01               | 1     | THI                 | C1                 | 20A                |              |
| CONNECTOR (XA551) CONTINUED ON THE NEXT PAGE **** |        |           |     |    |        |           |     |    |             |      |       |        |         |          |             |                  |       |                     |                    |                    |              |

DRAWING NUMBER 149019-880 CONNECTOR UNIT ASSEMBLY NO. 149019 REV G INDEX XA551  
 UNIT ASSEMBLY NAME CARD CAGE ASSY, I/O UNIT FILE IDENT T39BIUX2 DATE 09-03-82 PAGE 441

| RECORD NUMBER | FROM   |           |     |      | TO     |           |     |      | WIRE        |      |       |       | SFC INST MISC | SIGNAL | SEQ NO | EQUATION | TERM | FACT | CKT OR CHIP TYPE | GROUP | LOAD OR POWER PLANE | TEST POINTS AND OR | SIGNAL DESCRIPTION | ECO NO |
|---------------|--------|-----------|-----|------|--------|-----------|-----|------|-------------|------|-------|-------|---------------|--------|--------|----------|------|------|------------------|-------|---------------------|--------------------|--------------------|--------|
|               | PREFIX | CONNECTOR | PIN | WIRE | PREFIX | CONNECTOR | PIN | WIRE | MULTI GROUP | CODE | COLOR | IDENT |               |        |        |          |      |      |                  |       |                     |                    |                    |        |
| 19201         |        | XA551     | 39  |      | XA550  | 66        |     |      |             | 16B  | 9     |       | XERE30        | 01     | XERE3A | 01       | 1    | THI  | C6               |       | 19B                 |                    |                    |        |
| 19292         |        | XA551     | 40  |      |        |           |     |      |             |      |       |       | XER4CA        | 02     | XER4CA | 00       | 1    | THI  | C1               |       | 19A                 |                    |                    |        |
| 19185         |        | XA551     | 41  |      |        |           |     |      |             |      |       |       | XEMRDA        | 04     | XEMRDO | 01       | 1    | THI  | D4               |       | 23B                 |                    |                    |        |
| 19200         |        | XA551     | 42  |      |        |           |     |      |             |      |       |       | XERE3A        | 02     | XERE3A | 00       | 1    | THI  | C6               |       | 18B                 |                    |                    |        |
| 08191         |        | XA551     | 43  |      |        |           |     |      |             |      |       |       | SPO           | 01     |        | 00       | 1    | THI  | D5               |       | 24B                 |                    |                    |        |
| 03148         |        | XA551     | 44  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | THI  |                  |       | 27A                 |                    |                    |        |
| 06261         |        | XA551     | 45  |      | XA551  | 15        |     |      |             | 16B  | 9     |       | SPI044        | 37     |        | 01       | 1    | THI  | D5               |       | 25B                 |                    |                    |        |
| 19186         |        | XA551     | 46  |      | XA550  | 71        |     |      |             | 16B  | 9     |       | XEMRDO        | 01     | XEMRDO | 00       | 1    | THI  | D4               |       | 22B                 |                    |                    |        |
| 19359         |        | XA551     | 47  |      |        |           |     |      |             |      |       |       | XER7COX       | 02     | XER7CA | 01       | 1    | THI  | D2               |       | 24A                 |                    |                    |        |
| 19104         |        | XA551     | 48  |      | XA550  | 49        |     |      |             | 16B  | 9     |       | XECSE0        | 01     | XECSE0 | 00       | 1    | THI  | D3               |       | 21A                 |                    |                    |        |
| 19355         |        | XA551     | 49  |      | XA550  | 48        |     |      |             | 16B  | 9     |       | XER7CA        | 01     | XER7CA | 00       | 1    | THI  | D2               |       | 23A                 |                    |                    |        |
| 19101         |        | XA551     | 50  |      | XA550  | 59        |     |      |             | 16B  | 9     |       | XECSEA        | 01     | XECSE0 | 01       | 1    | THI  | D3               |       | 22A                 |                    |                    |        |
| 06260         |        | XA551     | 51  |      | XA551  | 45        |     |      |             | 16B  | 9     |       | SPI044        | 36     |        | 01       | 1    | THI  | D6               |       | 27B                 |                    |                    |        |
| 19339         |        | XA551     | 52  |      |        |           |     |      |             |      |       |       | XER6COX       | 02     | XER6CA | 01       | 1    | THI  | D1               |       | 26A                 |                    |                    |        |
| 08192         |        | XA551     | 53  |      |        |           |     |      |             |      |       |       | SPO           | 01     |        | 00       | 1    | THI  | D6               |       | 26B                 |                    |                    |        |
| 19336         |        | XA551     | 54  |      |        |           |     |      |             |      |       |       | XER6CA        | 02     | XER6CA | 00       | 1    | THI  | D1               |       | 25A                 |                    |                    |        |
| 15669         |        | XA551     | 55  |      | XA544  | 55        |     |      |             | 16B  | 9     |       | TSTBCA        | 01     | XESTB0 | 01       | 1    | THI  | E4               |       | 29B                 |                    |                    |        |
| 19380         |        | XA551     | 56  |      |        |           |     |      |             |      |       |       | XESTB0        | 04     | XESTB0 | 00       | 1    | THI  | E4               |       | 28B                 |                    | IOC STROBE         |        |
| 19124         |        | XA551     | 57  |      |        |           |     |      |             |      |       |       | XEENB0        | 03     | XEENB0 | 00       | 1    | THI  | E5               |       | 30B                 |                    | IOC ENABLE         |        |
| 03149         |        | XA551     | 58  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | THI  |                  |       | 40A                 |                    |                    |        |
| 12515         |        | XA551     | 59  |      | XA544  | 59        |     |      |             | 16B  | 9     |       | TENACA        | 01     | XEENB0 | 01       | 1    | THI  | E5               |       | 31B                 |                    |                    |        |
| 19165         |        | XA551     | 60  |      | XA550  | 53        |     |      |             | 16B  | 9     |       | XEINT0        | 01     | XEINT0 | 00       | 1    | THI  | E3               |       | 28A                 |                    | IOC INTERROGATE    |        |
| 09928         |        | XA551     | 61  |      | XA544  | 61        |     |      |             | 16B  | 9     |       | TCSXMA        | 01     | XEICRO | 01       | 1    | THI  | E2               |       | 31A                 |                    |                    |        |
| 13393         |        | XA551     | 62  |      | XA544  | 62        |     |      |             | 16B  | 9     |       | TINTCA        | 01     | XEINT0 | 01       | 1    | THI  | E3               |       | 29A                 |                    |                    |        |
| 19143         |        | XA551     | 63  |      | XA549  | 71        |     |      |             | 16B  | 9     |       | XEICRO        | 04     | XEICRO | 00       | 1    | THI  | E2               |       | 30A                 |                    | IOC ADRS           |        |
| 10008         |        | XA551     | 64  |      | XA441  | 59        |     |      |             | 16B  | 9     |       | TCS6AA        | 01     | XEICSO | 01       | 1    | THI  | E1               |       | 33A                 |                    |                    |        |
| 09753         |        | XA551     | 65  |      |        |           |     |      |             |      |       |       | TCMDCA        | 07     | XECMDO | 01       | 1    | THI  | E6               |       | 33B                 |                    |                    |        |
| 19151         |        | XA551     | 66  |      |        |           |     |      |             |      |       |       | XEICSO        | 06     | XEICSO | 00       | 1    | THI  | E1               |       | 32A                 |                    | IOC CH. SEL        |        |
| 03150         |        | XA551     | 67  |      |        |           |     |      |             |      |       |       | GND           | 01     |        |          |      | THI  |                  |       |                     |                    |                    |        |
| 19094         |        | XA551     | 68  |      |        |           |     |      |             |      |       |       | XECMDO        | 03     | XECMDO | 00       | 1    | THI  | E6               |       | 32B                 |                    | IOC COMMAND        |        |
| 06253         |        | XA551     | 69  |      | XA551  | 73        |     |      |             | 16B  | 9     |       | SPI044        | 29     |        | 01       | 1    | THI  | F3               |       | 35B                 |                    |                    |        |
| 08193         |        | XA551     | 70  |      |        |           |     |      |             |      |       |       | SPO           | 01     |        | 00       | 1    | THI  | F3               |       | 34B                 |                    |                    |        |
| 08194         |        | XA551     | 71  |      |        |           |     |      |             |      |       |       | SPO           | 01     |        | 00       | 1    | THI  | F2               |       | 36B                 |                    |                    |        |
| 08195         |        | XA551     | 72  |      |        |           |     |      |             |      |       |       | SPO           | 01     |        | 00       | 1    | THI  | F4               |       | 34A                 |                    |                    |        |
| 06254         |        | XA551     | 73  |      | XA551  | 75        |     |      |             | 16B  | 9     |       | SPI044        | 30     |        | 01       | 1    | THI  | F2               |       | 37B                 |                    |                    |        |
| 06259         |        | XA551     | 74  |      | XA551  | 51        |     |      |             | 16B  | 9     |       | SPI044        | 35     |        | 01       | 1    | THI  | F4               |       | 35A                 |                    |                    |        |
| 06255         |        | XA551     | 75  |      | XA550  | 76        |     |      |             | 16B  | 9     |       | SPI044        | 31     |        | 01       | 1    | THI  | F6               |       | 39A                 |                    |                    |        |
| 06258         |        | XA551     | 76  |      | XA551  | 74        |     |      |             | 16B  | 9     |       | SPI044        | 34     |        | 01       | 1    | THI  | F5               |       | 37A                 |                    |                    |        |
| 08196         |        | XA551     | 77  |      |        |           |     |      |             |      |       |       | SPO           | 01     |        | 00       | 1    | THI  | F6               |       | 38A                 |                    |                    |        |
| 08197         |        | XA551     | 78  |      |        |           |     |      |             |      |       |       | SPO           | 01     |        | 00       | 1    | THI  | F5               |       | 36A                 |                    |                    |        |
| 06257         |        | XA551     | 79  |      | XA551  | 76        |     |      |             | 16B  | 9     |       | SPI044        | 33     |        | 01       | 1    | THI  | F1               |       | 39B                 |                    |                    |        |
| 08198         |        | XA551     | 80  |      |        |           |     |      |             |      |       |       | SPO           | 01     |        | 00       | 1    | THI  | F1               |       | 38B                 |                    |                    |        |

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