

ARMY  
NAVY  
AIR FORCE

TM 11-5895-856-34-3  
EE640-CA-MMI-030/E154 CPU  
TO 31W2-2T-122-3

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**TECHNICAL MANUAL**

**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**

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**DEPARTMENTS OF THE ARMY, NAVY, AND AIR FORCE**

**27 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 TRICHLOROTRIFLUOROETHANE (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 TRICHLOROTRIFLUOROETHANE 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.

**LIST OF EFFECTIVE PAGES****INSERT LATEST CHANGED PAGES. DESTROY SUPERSEDED PAGES.**

Dates of issue for original and changed pages are:

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TM 11-5895-856-34-3  
EE640-CA-MMI-030/E154 CPU  
TO 31W2-2T-122-3

TECHNICAL MANUAL  
NO. 11-5895-856-34-3  
TECHNICAL MANUAL  
EE640-CA-MMI-030/E154 CPU  
TECHNICAL ORDER  
TO 31W2-2T-122-3

DEPARTMENTS OF THE ARMY  
THE NAVY, AND  
THE AIR FORCE

Washington, DC, 27 September 1983

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MAINTENANCE MANUAL  
FOR  
CENTRAL, MESSAGE SWITCHING, AUTOMATIC  
AN/TYC-39(V)1  
AND  
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**AUTOMATIC DATA PROCESSING  
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**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 3 TM 11-5895-856-34-3

Card Cage Assembly, Central Processor Unit - R.H., Wire List, Logic (149011-860)

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 logic wire list for the right-hand card cage assembly of the central processor unit, drawing number 149011-860. 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, CENTRAL PROCESSOR UNIT  
- RIGHT HAND  
LOGIC WIRE LIST  
149011-860**

**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 PARTS 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, CPU R. H.

## H78 STRING AND CONNECTOR LIST, DEFINITION OF FIELDS

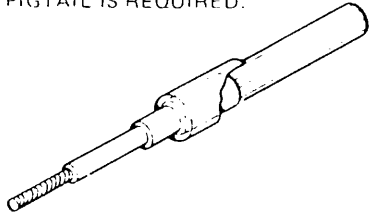
1. **Record Number** - A unique Data Processing number which associates all information pertaining to a wire "FROM" Connector, "TO" Connector, Wire Code, etc. This number is the wire ID when that field is blank.
2. **Prefix** - An assembly alphanumeric to be used when a wire terminates in two assemblies. 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 Y32.16-1968.
4. **Pin** - Exact terminating point of 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.

## 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 file.)
  - 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.

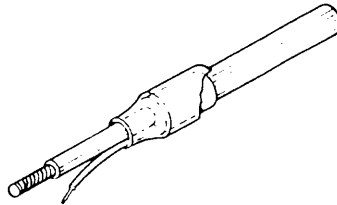
SHIELD FIGURE A

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



SHIELD FIGURE B

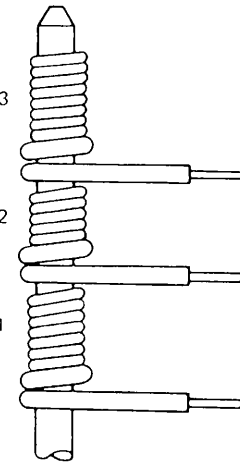
SHIELD TERMINATION FOR SHIELDED,  
SINGLE AND MULTIPLE CONDUCTORS,  
FRONT PIGTAIL IS REQUIRED.



SHIELD FIGURE NO. 3

SHIELD FIGURE NO. 2

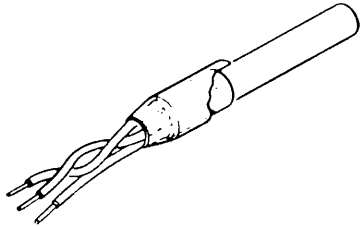
SHIELD FIGURE NO. 1



SHIELD FIGURE NUMBER  
INDICATES LEVEL OF WIRE WRAP

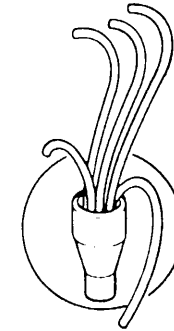
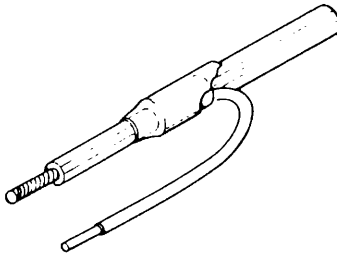
SHIELD FIGURE G

SHIELDED CABLE TERMINATION WITH DRAIN WIRE



SHIELD FIGURE C

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

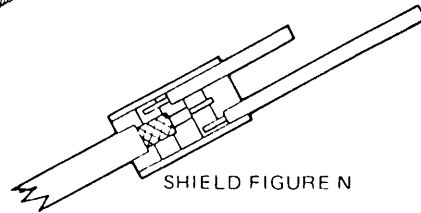
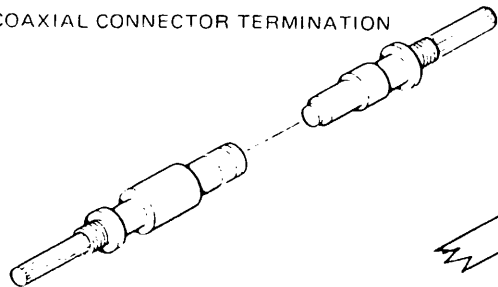


SHIELD FIGURE X

SHIELDED WIRE  
PIGTAILS -HYBRID

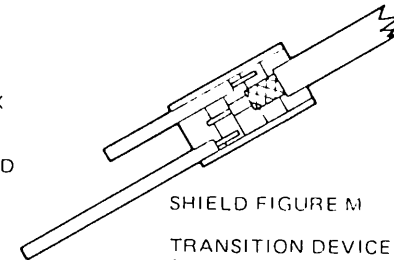
SHIELD FIGURE Z

COAXIAL CONNECTOR TERMINATION



SHIELD FIGURE N

TRANSITION DEVICE WITH  
SOLID WIRE PIGTAILS



SHIELD FIGURE M

TRANSITION DEVICE WITH  
STRANDED WIRE PIGTAILS

DRAWING NUMBER 149011-860

LOGIC

UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

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CONNECTOR	GROUP TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
XA429	TD4	A1	05B	CCBHLA	00	=		BLO CC0912DB2831
XA429	TD4	A1	07A	(11)	01		CMD7BP CMD6BQ CMD5BP CMD8BP 10 07A 08 06A 06 05A 13 06B	
XA428	TQ2	A2	02B	CCBHLO	00	=		H FIELD TO DB2831
XA428	TQ2	A2	04A	(01)	01		CCBHLA SPA125 04 04A 05 03B	
XA429	TD4	B1	11B	CCBLLA	00	=		MOP CODE D-001X
XA429	TD4	B1	14A	(23)	01		SPA128 CMD5BP CMD6BP CMD7BQ 26 14A 24 13A 22 12A 25 12B	
XA430	TQ2	B3	10B	CCBLLO	00	=		BLO CC0815DB2431
XA430	TQ2	B3	08B	(21)	01		SPA129 CCBLLA 17 08B 19 09B	
XA430	TQ2	B4	13B	CCBLMO	00	=		BLO CC0815DB2431 UNLOAD
XA430	TQ2	B4	11B	(27)	01		CCBLLA SPA129 23 11B 25 12B	
XA428	TQ2	A3	04B	CCBLUA	00	=		MOP CODE D-0011
XA428	TQ2	A3	02A	(09)	01		CCBLMO CMD8BQ 03 02A 07 03A	
XA430	TQ2	C1	18A	CCBLUO	00	=		BLO CC0015DB1631
XA430	TQ2	C1	20A	(38)	01		SPA129 CCBLUA 42 20A 40 19A	
XA430	TQ2	C2	15A	CCBLVO	00	=		BLO CC0015DB1631 UNLOAD
XA430	TQ2	C2	17A	(30)	01		CCBLUA SPA129 36 17A 34 16A	
				CCCPCB	00	=		
XA430	TQ2	F1	37B	( )	01		CCCPOA 75 37B	
XA430	TQ2	F2	34A	( )	02	+	CCCPEA 72 34A	
XA430	TQ2	F3	35A	( )	03	+	CCCPOA 69 35A	
XA430	TQ2	F1	37B	CCCPOA	00	=		CCCPCB BUSS
XA430	TQ2	F1	39B	(75)	01		CLOCLB CCDTRO 79 39B 77 38B	
XA430	TQ2	F2	34A	CCCPEA	00	=		CCCPCB BUSS
XA430	TQ2	F2	36B	(72)	01		CCDTRO CLOCLB 73 36B 71 36A	

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LOGIC

UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA430	TQ2	F3	35A	CCCPFA	00	=		
XA430	TQ2	F3	34B	(169)	01		CLOCLB CCDTRO 65 34B 74 35B	CCCPCB BUSS
XA429	TD4	A2	04B	CCDTRA	00	=		
XA429	TD4	A2	04A	(09)	01		CMD6BP MC119A CMD7BP CMD8BQ 04 04A 05 03B 01 02B 07 03A	MOP CODE 0=0001
XA428	TQ2	A1	05A	CCDTRO	00	=		
XA428	TQ2	A1	07A	(06)	01		SPA125 CCDTRA 10 07A 08 06A	DTR M10015CC0015
XA430	TQ2	B1	12A	CCEOCA	00	=		
XA430	TQ2	B1	14A	(22)	01		SPA129 CCO0BP 26 14A 24 13A	E=0 APOL
XA428	TQ2	B1	12A	CCE0C0	00	=		
XA428	TQ2	B1	14A	(22)	01		CCEOCA SPA126 26 14A 24 13A	E=0 UNLOAD
XA428	TQ2	B2	09A	CCE0D0	00	=		
XA428	TQ2	B2	11A	(14)	01		SPA126 CCEOCA 20 11A 18 10A	E=0 UNLOAD
XA428	TQ2	B3	10B	CCE0E0	00	=		
XA428	TQ2	B3	08B	(21)	01		SPA126 CCEOCA 17 08B 19 09B	E=0 UNLOAD
XA428	TQ2	B4	13B	CCE0F0	00	=		
XA428	TQ2	B4	11B	(27)	01		SPA126 CCEOCA 23 11B 25 12B	E=0 UNLOAD
XA428	TQ2	C1	18A	CCE0G0	00	=		
XA428	TQ2	C1	20A	(38)	01		SPA126 CCEOCA 42 20A 40 19A	E=0 UNLOAD
XA428	TQ2	C2	15A	CCE0H0	00	=		
XA428	TQ2	C2	17A	(30)	01		CCEOCA C172CA 36 17A 34 16A	E=0 UNLOAD
XA430	TQ2	B2	09A	CCE1CA	00	=		
XA430	TQ2	B2	11A	(14)	01		SPA129 CCO0BQ 20 11A 18 10A	E=1 APOL
XA428	TQ2	C3	16B	CCE1C0	00	=		
XA428	TQ2	C3	14B	(33)	01		SPA126 CCE1CA 29 14B 31 15B	E=1 UNLOAD



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA428	TQ2	C4	19B	CCE1D0	00	=	E=1 UNLOAD	
XA428	TQ2	C4	17B	(39)	01		CCE1CA SPA126 35 17B 37 18B	
XA428	TQ2	D1	24A	CCE1E0	00	=	F=1 UNLOAD	
XA428	TQ2	D1	26A	(52)	01		SPA127 CCE1CA 56 26A 54 25A	
XA428	TQ2	D2	21A	CCE1F0	00	=	E=1 UNLOAD	
XA428	TQ2	D2	23A	(46)	01		SPA127 CCE1CA 50 23A 48 22A	
XA428	TQ2	D3	24B	CCE1G0	00	=	F=1 UNLOAD	
XA428	TQ2	D3	22B	(45)	01		CCE1CA SPA127 41 22B 43 23B	
XA428	TQ2	D4	27B	CCE1H0	00	=	F=0 UNLOAD	
XA428	TQ2	D4	25B	(51)	01		SPA127 CCE1CA 47 25B 49 26B	
XA430	TQ2	E1	31A	CCMSCA	00	=	MODE,SISO* APDL	
XA430	TQ2	E1	33A	(66)	01		CCMOD0 CCSZRA 70 33A 68 32A	
XA428	TQ2	F1	37B	CCMSC0	00	=	MODE,SISO* OPDL	
XA428	TQ2	F1	39B	(75)	01		SPA128 CCMSCA 79 39B 77 38B	
XA430	TQ2	E2	28A	CCMODA	00	=	INSTR MODE IS ZERO-(LITERAL)	
XA430	TQ2	E2	30A	(60)	01		CC08BP CC07BP 64 30A 62 29A	
XA428	TQ2	F2	34A	CCMOD0	00	=	MODE=0 OPDL	
XA428	TQ2	F2	36B	(72)	01		SPA127 CCMODA 73 36B 71 36A	
XA505	TQ2	F2	34A	CCMOE0	00	=	UNQUAL AUCTION	
XA505	TQ2	F2	36B	(72)	01		CCMODA SPT049 73 36B 71 36A	
XA429	TD4	E1	31B	CCSZRA	00	=	INDEX FLD IS ZERO-APDL	
XA429	TD4	E1	33A	(59)	01		CC15BP SPA128 CC14BP CC13BP 70 33A 68 32A 66 31A 61 32B	
XA428	TQ2	F3	35A	CCSZR0	00	=	S=0, CC13*,CC14*,CC15*	
XA428	TQ2	F3	34B	(69)	01		CCSZRA SPA127 65 34B 74 35B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA429	T04	E2	30B	CCS1CA	00 =			
XA429	T04	E2	30A	(57)	01		CC13BP CC14BP CC15BQ SPA128 64 30A 62 29A 60 28A 55 29B	S=L.APOI
				CC00BI	00 =			
XA431	T00	CI	13A	( )	01		M00T0 24 13A	
				CC00BN	00 =			
XA431	T00	CN	14A	( )	01		CCCPCB 26 14A	GATED CLOCK BUS FOR CC
XA431	T00	CP	11B	CC00BP	00 =			
XA431	T00	CP	12A	(23)	01		J2RES0 22 12A	
XA431	T00	CQ	12B	CC00BQ	00 =			
XA431	T00	CQ	13B	(25)	01		SPA130 27 13B	
				CC01BI	00 =			
XA431	T00	DI	10A	( )	01		M01T0 18 10A	
				CC01BN	00 =			
XA431	T00	DN	09A	( )	01		CCCPCB 14 09A	GATED CLOCK BUS FOR CC
XA431	T00	DP	10B	CC01BP	00 =			
XA431	T00	DP	11A	(21)	01		J2RES0 20 11A	
XA431	T00	DQ	09B	CC01BQ	00 =			
XA431	T00	DQ	08B	(19)	01		SPA130 17 08B	
				CC02BI	00 =			
XA431	T00	EI	19A	( )	01		M02T0 40 19A	
				CC02BN	00 =			
XA431	T00	EN	20A	( )	01		CCCPCB 42 20A	GATED CLOCK BUS FOR CC
XA431	T00	EP	17B	CC02BP	00 =			
XA431	T00	EP	18A	(35)	01		J2RES0 38 18A	

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UNIT ASSEMBLY NO. 149011

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA431	TDD	EQ	18B	CC02BQ	00	=		
XA431	TDD	EQ	19B	(37)	01		SPA131 39 19B	
				CC03BI	00	=		
XA431	TDD	FI	16A	( )	01		MD03IO 34 16A	
				CC03BN	00	=		
XA431	TDD	FN	15A	( )	01		CCCPCB 30 15A	GATED CLOCK BUS FOR CC
XA431	TDD	FP	16B	CC03BP	00	=		
XA431	TDD	FP	17A	(33)	01		J2RES0 36 17A	
XA431	TDD	FQ	15B	CC03BQ	00	=		
XA431	TDD	FQ	14B	(31)	01		SPA130 29 14B	
				CC04BI	00	=		
XA431	TDD	GI	25A	( )	01		MD04IO 54 25A	
				CC04BN	00	=		
XA431	TDD	GN	26A	( )	01		CCCPCB 56 26A	GATED CLOCK BUS FOR CC
XA431	TDD	GP	25B	CC04BP	00	=		
XA431	TDD	GP	24A	(47)	01		J2RES0 52 24A	
XA431	TDD	GQ	26B	CC04BQ	00	=		
XA431	TDD	GQ	27B	(49)	01		SPA131 51 27B	
				CC05BI	00	=		
XA431	TDD	HI	22A	( )	01		MD05IO 48 22A	
				CC05BN	00	=		
XA431	TDD	HN	21A	( )	01		CCCPCB 46 21A	GATED CLOCK BUS FOR CC
XA431	TDD	HP	24B	CC05BP	00	=		
XA431	TDD	HP	23A	(45)	01		J2RES0 50 23A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	RESISTOR	FACTOR	COMMENT
XA431	TDD	HQ	23B	CC05BQ	00 =			
XA431	TDD	HQ	22B	( 43 )	01		SPA131 41 22B	
				CC06BI	00 =			
XA431	TDD	JI	32A	( )	01		MD06IO 68 32A	
				CC06BN	00 =			
XA431	TDD	JN	33A	( )	01		CCCPCB 70 33A	GATED CLOCK BUS FOR CC
XA431	TDD	JP	31B	CC06BP	00 =			
XA431	TDD	JP	31A	( 59 )	01		J2RESO 66 31A	
XA431	TDD	JQ	32B	CC06BQ	00 =			
XA431	TDD	JQ	33B	( 61 )	01		SPA131 63 33B	
				CC07BI	00 =			
XA431	TDD	KI	29A	( )	01		MD07IO 62 29A	
				CC07BN	00 =			
XA431	TDD	KN	28A	( )	01		CCCPCB 60 28A	GATED CLOCK BUS FOR CC
XA431	TDD	KP	30B	CC07BP	00 =			
XA431	TDD	KP	30A	( 57 )	01		J2RESO 64 30A	
XA431	TDD	KQ	29B	CC07BQ	00 =			
XA431	TDD	KQ	28B	( 55 )	01		SPA131 53 28B	
				CC08BI	00 =			
XA431	TDD	LI	38B	( )	01		MD08IO 77 38B	
				CC08BN	00 =			
XA431	TDD	LN	39B	( )	01		CCCPCB 79 39B	GATED CLOCK BUS FOR CC
XA431	TDD	LP	37A	CC08BP	00 =			
XA431	TDD	LP	37B	( 76 )	01		J2RESO 75 37B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS	EQUATION	TERM.	DESIGNATOR	FACTOR	COMMENT
			AND OR					
XA431	TDD	LQ	38A	CC08BQ	00	=		
XA431	TDD	LQ	39A	(78)	01		SPA131 80 39A	
XA430	TQ2	E4	33B	CC08Q0	00	=		CC08BQ UNLOAD
XA430	TQ2	E4	31B	(63)	01		SPA130 CC08BP 59 31B 61 32B	
XA431	TDD	MI	36A	CC09BI	00	=		
				( )	01		MD09IO 71 36A	
XA431	TDD	MN	34A	CC09BN	00	=		
				( )	01		CCCPCB 72 34A	GATED CLOCK BUS FOR CC
XA431	TDD	MP	35A	CC09BP	00	=		
XA431	TDD	MP	36B	(69)	01		J2RESO 73 36B	
XA431	TDD	MQ	35B	CC09BQ	00	=		
XA431	TDD	MQ	34B	(74)	01		SPA131 65 34B	
XA430	TQ2	D1	24A	CC09Q0	00	=		CC09BQ UNLOAD
XA430	TQ2	D1	26A	(52)	01		CC09BP SPA130 56 26A 54 25A	
				CC10BI	00	=		
XA432	TDD	GI	25A	( )	01		MD10IO 54 25A	
				CC10BN	00	=		
XA432	TDD	GN	26A	( )	01		CCCPCB 56 26A	GATED CLOCK BUS FOR CC
XA432	TDD	GP	25B	CC10BP	00	=		
XA432	TDD	GP	24A	(47)	01		J2RESO 52 24A	
XA432	TDD	GQ	26B	CC10BQ	00	=		
XA432	TDD	GQ	27B	(49)	01		SPA132 51 27B	
XA430	TQ2	D2	21A	CC10Q0	00	=		CC10BQ UNLOAD
XA430	TQ2	D2	23A	(46)	01		SPA130 CC10BP 50 23A 48 22A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA432	TDD	HI	22A	CC11BI ( )	00 = 01		MD1110 48 22A	
XA432	TDD	HN	21A	CC11BN ( )	00 = 01		CCCPCB 46 21A	GATED CLOCK BUS FOR CC
XA432	TDD	HP	24B	CC11BP	00 =			
XA432	TDD	HP	23A	(45 )	01		J2RESO 50 23A	
XA432	TDD	HQ	23B	CC11BQ	00 =			
XA432	TDD	HQ	22B	(43 )	01		SPA132 41 22B	
XA430	TQ2	D3	24B	CC11Q0	00 =			CC11BQ UNLOAD
XA430	TQ2	D3	22B	(45 )	01		CC11BP SPA130 41 22B 43 23B	
XA432	TDD	JI	32A	CC12BI ( )	00 = 01		MD1210 68 32A	
XA432	TDD	JN	33A	CC12BN ( )	00 = 01		CCCPCB 70 33A	GATED CLOCK BUS FOR CC
XA432	TDD	JP	31B	CC12BP	00 =			
XA432	TDD	JP	31A	(59 )	01		J2RESO 66 31A	
XA432	TDD	JQ	32B	CC12BQ	00 =			
XA432	TDD	JQ	33B	(61 )	01		SPA132 63 33B	
XA430	TQ2	D4	27B	CC12Q0	00 =			CC12BQ UNLOAD
XA430	TQ2	D4	25B	(51 )	01		SPA130 CC12BP 47 25B 49 26B	
XA432	TDD	KI	29A	CC13BI ( )	00 = 01		MD1310 62 29A	
XA432	TDD	KN	28A	CC13BN ( )	00 = 01		CCCPCB 60 28A	GATED CLOCK BUS FOR CC

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA432	TDD	KP	30B		CC13BP	00	=		
XA432	TDD	KP	30A		(57)	01		J2RES0 64 30A	
XA432	TDD	KQ	29B		CC13BQ	00	=		
XA432	TDD	KQ	28B		(55)	01		SPA132 53 28B	
					CC14BI	00	=		
XA432	TDD	LI	38B		( )	01		MDI4I0 77 38B	
					CC14BN	00	=		
XA432	TDD	LN	39B		( )	01		CCCPCB 79 39B	GATED CLOCK BUS FOR CC
XA432	TDD	LP	37A		CC14BP	00	=		
XA432	TDD	LP	37B		(76)	01		J2RES0 75 37B	
XA432	TDD	LQ	38A		CC14BQ	00	=		
XA432	TDD	LQ	39A		(78)	01		SPA132 80 39A	
					CC15BI	00	=		
XA432	TDD	MI	36A		( )	01		MDI5I0 71 36A	
					CC15BN	00	=		
XA432	TDD	MN	34A		( )	01		CCCPCB 72 34A	GATED CLOCK BUS FOR CC
XA432	TDD	MP	35A		CC15BP	00	=		
XA432	TDD	MP	36B		(69)	01		J2RES0 73 36B	
XA432	TDD	MQ	35B		CC15BQ	00	=		
XA432	TDD	MQ	34B		(74)	01		SPA132 65 34B	
XA430	TQ2	C3	16B		CDB36A	00	=		
XA430	TQ2	C3	14B		(33)	01		CMD2Q0 CMDIPO 29 14B 31 15B	CNST +36 TO DB2731
XA429	TD4	B2	10B		CDB43A	00	=		
XA429	TD4	B2	11A		(21)	01		CMD1BP CMD2BP CMD3BP CMD4BQ 20 11A 18 10A 14 09A 19 09B	BLO +0000%30B1631

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA428	TQ2	A4	07B	CDB430	00	=		
XA428	TQ2	A4	05B	(15)	01		CDB43A SPA126 11 05B 13 06B	
XA220	TQ2	A1	05A	CD00CA	00	=		STATE COUNTER DECODING
XA220	TQ2	A1	07A	(06)	01		CS00BQ CS07BQ 10 07A 08 06A	
XA226	TQ2	E1	31A	CD00C0	00	=		STATE 00
XA226	TQ2	E1	33A	(66)	01		SPA046 CD00CA 70 33A 68 32A	
XA220	TQ2	A2	02B	CD01CA	00	=		
XA220	TQ2	A2	04A	(01)	01		CS01BQ CS00BP 04 04A 05 03B	
XA222	TQ2	C2	15A	CD01C0	00	=		STATE 01
XA222	TQ2	C2	17A	(30)	01		SPA039 CD01CA 36 17A 34 16A	
XA220	TQ2	A3	04B	CD02CA	00	=		
XA220	TQ2	A3	02A	(09)	01		CS01BP CS02BQ 03 02A 07 03A	
XA222	TQ2	C3	16B	CD02C0	00	=		STATE 02
XA222	TQ2	C3	14B	(33)	01		CD02CA SPA039 29 14B 31 15B	
XA220	TQ2	A4	07B	CD03CA	00	=		
XA220	TQ2	A4	05B	(15)	01		CS03BQ CS02BP 11 05B 13 06B	
XA222	TQ2	C4	19B	CD03C0	00	=		STATE 03
XA222	TQ2	C4	17B	(39)	01		CD03CA SPA040 35 17B 37 18B	
XA220	TQ2	B1	12A	CD04CA	00	=		
XA220	TQ2	B1	14A	(22)	01		CS04BQ CS03BP 26 14A 24 13A	
XA222	TQ2	D1	24A	CD04C0	00	=		STATE 04
XA222	TQ2	D1	26A	(52)	01		SPA040 CD04CA 56 26A 54 25A	
XA220	TQ2	B2	09A	CD05CA	00	=		
XA220	TQ2	B2	11A	(14)	01		CS04BP CS05BQ 20 11A 18 10A	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
			AND	OR					
XA222	TQ2	D2	21A		CD05C0	00	=		STATE 05
XA222	TQ2	D2	23A		(46)	01		SPA040 CD05CA 50 23A 48 22A	
XA220	TQ2	B3	10B		CD06CA	00	=		
XA220	TQ2	B3	08B		(21)	01		CS05BP CS06BQ 17 08B 19 09B	
XA222	TQ2	D3	24B		CD06C0	00	=		STATE 06
XA222	TQ2	D3	22B		(45)	01		CD06CA SPA040 41 22B 43 23B	
XA220	TQ2	B4	13B		CD07CA	00	=		
XA220	TQ2	B4	11B		(27)	01		CS07BQ CS06BP 23 11B 25 12B	
XA222	TQ2	D4	27B		CD07C0	00	=		STATE 07
XA222	TQ2	D4	25B		(51)	01		CD07CA SPA040 47 25B 49 26B	
XA227	TQ2	A1	05A		CE00A0	00	=		ES 00 UNLOAD GATE
XA227	TQ2	A1	07A		(06)	01		SPA046 CE00CA 10 07A 08 06A	
XA221	TT3	A1	04A		CE00CA	00	=		INSTR EXE STATE DECODING
XA221	TT3	A1	07A		(04)	01		CS0E00 CS00BQ CS07BQ 10 07A 08 06A 06 05A	
XA227	TQ2	A2	02B		CE00C0	00	=		ES00
XA227	TQ2	A2	04A		(01)	01		CE00CA SPA046 04 04A 05 03B	
XA227	TQ2	A3	04B		CE00G0	00	=		ES 00 UNLOAD GATE
XA227	TQ2	A3	02A		(09)	01		SPA046 CE00CA 03 02A 07 03A	
XA227	TQ2	B1	12A		CE01A0	00	=		ES 01 UNLOAD GATE
XA227	TQ2	B1	14A		(22)	01		CE01CA SPA047 26 14A 24 13A	
XA221	TT3	A2	03A		CE01CA	00	=		
XA221	TT3	A2	03B		(07)	01		CS01BQ CS0E00 CS00BP 05 03B 01 02B 03 02A	
XA227	TQ2	B2	09A		CE01C0	00	=		ES01
XA227	TQ2	B2	11A		(14)	01		SPA047 CE01CA 20 11A 18 10A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
			AND	OR					
XA227	TQ2	B3	10B		CE01D0	00	=		ES 01 UNLOAD GATE
XA227	TQ2	B3	08B		(21 )	01		SPA047 CE01CA 17 08B 19 09B	
XA227	TQ2	B4	13B		CE01G0	00	=		ES 01 UNLOAD GATE
XA227	TQ2	B4	11B		(27 )	01		SPA047 CE01CA 23 11B 25 12B	
XA227	TQ2	C2	15A		CE01M0	00	=		ES 01 UNLOAD GATE
XA227	TQ2	C2	17A		(30 )	01		SPA047 CE01CA 36 17A 34 16A	
XA227	TQ2	C3	16B		CE01P0	00	=		ES 01 UNLOAD GATE
XA227	TQ2	C3	14B		(33 )	01		CE01CA SPA047 29 14B 31 15B	
XA227	TQ2	C4	19B		CE02A0	00	=		ES 02 UNLOAD GATE
XA227	TQ2	C4	17B		(39 )	01		SPA047 CE02CA 35 17B 37 18B	
XA221	TT3	A3	07B		CE02CA	00	=		
XA221	TT3	A3	04B		(15 )	01		CS0E0 CS01BP CS02BQ 09 04B 11 05B 13 06B	
XA227	TQ2	C1	18A		CE02C0	00	=		ES02
XA227	TQ2	C1	20A		(38 )	01		SPA047 CE02CA 42 20A 40 19A	
XA227	TQ2	D1	24A		CE02D0	00	=		ES 02 UNLOAD GATE
XA227	TQ2	D1	26A		(52 )	01		CE02CA SPA048 56 26A 54 25A	
XA227	TQ2	D2	21A		CE02F0	00	=		ES 02 UNLOAD GATE
XA227	TQ2	D2	23A		(46 )	01		SPA048 CE02CA 50 23A 48 22A	
XA227	TQ2	D3	24B		CE02G0	00	=		ES 02 UNLOAD GATE
XA227	TQ2	D3	22B		(45 )	01		SPA047 CE02CA 41 22B 43 23B	
XA227	TQ2	D4	27B		CE02H0	00	=		ES 02 UNLOAD GATE
XA227	TQ2	D4	25B		(51 )	01		SPA047 CE02CA 47 25B 49 26B	
XA227	TQ2	E1	31A		CE02M0	00	=		ES 02 UNLOAD GATE
XA227	TQ2	E1	33A		(66 )	01		SPA048 CE02CA 70 33A 68 32A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM.	RELIG. FACTOR	FACTOR	COMMENT
XA227	TQ2	E2	28A	CE02P0	00	=		ES 02 UNLOAD GATE
XA227	TQ2	E2	30A	(60)	01		CE02CA SPA048 64 30A 62 29A	
XA227	TQ2	E3	30B	CE03A0	00	=		ES 03 UNLOAD GATE
XA227	TQ2	E3	28B	(57)	01		SPA048 CE03CA 53 28B 55 29B	
XA221	TT3	B1	11A	CE03CA	00	=		
XA221	TT3	B1	14A	(20)	01		CS02BP CS0ED0 CS03BQ 26 14A 24 13A 22 12A	
XA227	TQ2	E4	33B	CE03C0	00	=		ES03
XA227	TQ2	E4	31B	(63)	01		CE03CA SPA048 59 31B 61 32B	
XA227	TQ2	F1	37B	CE03F0	00	=		ES03 UNLOAD
XA227	TQ2	F1	39B	(75)	01		SPA048 CE03CA 79 39B 77 38B	
XA227	TQ2	F2	34A	CE03G0	00	=		ES 03 UNLOAD GATE
XA227	TQ2	F2	36B	(72)	01		SPA048 CE03CA 73 36B 71 36A	
XA227	TQ2	F3	35A	CE03M0	00	=		ES 03 UNLOAD GATE
XA227	TQ2	F3	34B	(69)	01		CE03CA SPA048 65 34B 74 35B	
XA227	TQ2	F4	39A	CE03P0	00	=		ES 03 UNLOAD GATE
XA227	TQ2	F4	37A	(80)	01		SPA048 CE03CA 76 37A 78 38A	
XA226	TQ2	A1	05A	CE04A0	00	=		ES 04 UNLOAD GATE
XA226	TQ2	A1	07A	(06)	01		SPA044 CE04CA 10 07A 08 06A	
XA221	TT3	B2	09B	CE04CA	00	=		
XA221	TT3	B2	10A	(19)	01		CS04BQ CS0ED0 CS03BP 18 10A 14 09A 17 08B	
XA226	TQ2	A2	02B	CE04C0	00	=		ES04
XA226	TQ2	A2	04A	(01)	01		CE04CA SPA044 04 04A 05 03B	
XA226	TQ2	A3	04B	CE04M0	00	=		ES 04 UNLOAD GATE
XA226	TQ2	A3	02A	(09)	01		SPA044 CE04CA 03 02A 07 03A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA226	TQ2	B1	12A	CE05A0	00	=		ES 05 UNLOAD GATE
XA226	TQ2	B1	14A	(22)	01		SPA045 CE05CA 26 14A 24 13A	
XA221	TT3	B3	13B	CE05CA	00	=		
XA221	TT3	B3	10B	(27)	01		CS0E00 CS048P CS05BQ 21 10B 23 11B 25 12B	
XA226	TQ2	B2	09A	CE05C0	00	=		ES05
XA226	TQ2	B2	11A	(14)	01		SPA044 CE05CA 20 11A 18 10A	
XA226	TQ2	B3	10B	CE05G0	00	=		ES 05 UNLOAD GATE
XA226	TQ2	B3	08B	(21)	01		SPA044 CE05CA 17 08B 19 09B	
XA226	TQ2	B4	13B	CE05M0	00	=		ES 05 UNLOAD GATE
XA226	TQ2	B4	11B	(27)	01		SPA045 CE05CA 23 11B 25 12B	
XA226	TQ2	C1	18A	CE06A0	00	=		ES 06 UNLOAD GATE
XA226	TQ2	C1	20A	(38)	01		SPA045 CE06CA 42 20A 40 19A	
XA221	TT3	C1	17A	CE06CA	00	=		
XA221	TT3	C1	20A	(36)	01		CS06BQ CS058P CS0E00 42 20A 40 19A 38 18A	
XA226	TQ2	C2	15A	CE06C0	00	=		ES06
XA226	TQ2	C2	17A	(30)	01		CE06CA SPA045 36 17A 34 16A	
XA226	TQ2	C3	16B	CE06D0	00	=		ES 06 UNLOAD GATE
XA226	TQ2	C3	14B	(33)	01		SPA045 CE06CA 29 14B 31 15B	
XA221	TT3	C2	15B	CE07CA	00	=		
XA221	TT3	C2	16A	(31)	01		CS0E00 CS06BP CS07BQ 34 16A 30 15A 29 14B	
XA226	TQ2	C4	19B	CE07C0	00	=		ES07
XA226	TQ2	C4	17B	(39)	01		SPA045 CE07CA 35 17B 37 18B	
XA226	TQ2	D1	24A	CE07D0	00	=		ES 07 UNLOAD GATE
XA226	TQ2	D1	26A	(52)	01		SPA046 CE07CA 56 26A 54 25A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA221	TT3	C3	19B		CE10CA	00	=		
XA221	TT3	C3	16B		(39)	01		CS00BP CS0EE0 CS07BP 33 16B 35 17B 37 18B	
XA226	TQ2	D2	21A		CE10C0	00	=		ES10
XA226	TQ2	D2	23A		(46)	01		SPA045 CE10CA 50 23A 48 22A	
XA226	TQ2	D3	24B		CE10D0	00	=		ES 10 UNLOAD GATE
XA226	TQ2	D3	22B		(45)	01		SPA045 CE10CA 41 22B 43 23B	
XA221	TT3	D1	23A		CE11CA	00	=		
XA221	TT3	D1	26A		(50)	01		CS0EE0 CS00BQ CS01BP 56 26A 54 25A 52 24A	
XA226	TQ2	D4	27B		CE11C0	00	=		ES11
XA226	TQ2	D4	25B		(51)	01		CE11CA SPA045 47 25B 49 26B	
XA221	TT3	D2	23B		CE12CA	00	=		
XA221	TT3	D2	22A		(43)	01		CS01BQ CS02BP CS0EE0 48 22A 46 21A 41 22B	
XA226	TQ2	E2	28A		CE12C0	00	=		ES12
XA226	TQ2	E2	30A		(60)	01		SPA046 CE12CA 64 30A 62 29A	
XA221	TT3	D3	27B		CE13CA	00	=		
XA221	TT3	D3	24B		(51)	01		CS02BQ CS0EE0 CS03BP 45 24B 47 25B 49 26B	
XA226	TQ2	E3	30B		CE13C0	00	=		ES13
XA226	TQ2	E3	28B		(57)	01		CE13CA SPA045 53 28B 55 29B	
XA221	TT3	E1	30A		CE14CA	00	=		
XA221	TT3	E1	33A		(64)	01		CS0EE0 CS03BQ CS04BP 70 33A 68 32A 66 31A	
XA226	TQ2	E4	33B		CE14C0	00	=		ES14
XA226	TQ2	E4	31B		(63)	01		CE14CA SPA046 59 31B 61 32B	
XA221	TT3	E2	29B		CE15CA	00	=		
XA221	TT3	E2	29A		(55)	01		CS04BQ CS0EE0 CS05BP 62 29A 60 28A 53 28B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM.	DESIGNATOR	FACTOR	COMMENT
XA226	TQ2	F1	37B	CE15C0	00	#		ES15
XA226	TQ2	F1	39B	(75)	01		SPA046 CE15CA 79 39B 77 38B	
XA221	TT3	E3	33B	CE16CA	00	=		
XA221	TT3	E3	30B	(63)	01		CS05BQ CS0EEO CS06BP 57 30B 59 31B 61 32B	
XA226	TQ2	F2	34A	CE16C0	00	=		ES16
XA226	TQ2	F2	36B	(72)	01		SPA046 CE16CA 73 36B 71 36A	
XA221	TT3	F1	36B	CE17CA	00	=		
XA221	TT3	F1	39B	(73)	01		CS07BP CS06BQ CS0EEO 79 39B 77 38B 75 37B	
XA226	TQ2	F3	35A	CE17C0	00	=		ES17
XA226	TQ2	F3	34B	(69)	01		SPA046 CE17CA 65 34B 74 35B	
XA223	TQ2	E1	31A	CF00CA	00	=		
XA223	TQ2	E1	33A	(66)	01		CS0FC0 CD00C0 70 33A 68 32A	
XA224	TQ2	E1	31A	CF00C0	00	=		ES00
XA224	TQ2	E1	33A	(66)	01		SPA041 CF00CA 70 33A 68 32A	
XA223	TQ2	E2	28A	CF01CA	00	=		
XA223	TQ2	E2	30A	(60)	01		CS0FC0 CD01C0 64 30A 62 29A	
XA224	TQ2	E2	28A	CF01C0	00	=		ES01
XA224	TQ2	E2	30A	(60)	01		SPA041 CF01CA 64 30A 62 29A	
XA223	TQ2	E3	30B	CF02CA	00	=		
XA223	TQ2	E3	28B	(57)	01		CD02C0 CS0FC0 53 28B 55 29B	
XA224	TQ2	E3	30B	CF02C0	00	=		ES02
XA224	TQ2	E3	28B	(57)	01		SPA041 CF02CA 53 28B 55 29B	
XA223	TQ2	E4	33B	CF03CA	00	=		
XA223	TQ2	E4	31B	(63)	01		CD03C0 CS0FC0 59 31B 61 32B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA224	TQ2	E4	33B	CF03C0	00	=	FS03	
XA224	TQ2	E4	31B	(63)	01		SPA041 CF03CA 59 31B 61 32B	
XA223	TQ2	F1	37B	CF04CA	00	=		
XA223	TQ2	F1	39B	(75)	01		CD04C0 CS0FC0 79 39B 77 38B	
XA224	TQ2	F1	37B	CF04C0	00	=	FS04	
XA224	TQ2	F1	39B	(75)	01		CF04CA SPA042 79 39B 77 38B	
XA223	TQ2	F2	34A	CF05CA	00	=		
XA223	TQ2	F2	36B	(72)	01		CS0FC0 CD05C0 73 36B 71 36A	
XA224	TQ2	F2	34A	CF05C0	00	=	FS05	
XA224	TQ2	F2	36B	(72)	01		SPA041 CF05CA 73 36B 71 36A	
XA223	TQ2	F3	35A	CF06CA	00	=		
XA223	TQ2	F3	34B	(69)	01		CD06C0 CS0FC0 65 34B 74 35B	
XA225	TQ2	B1	12A	CG1SC0	00	=	L1 STATE- RST STB	
XA225	TQ2	B1	14A	(22)	01		SPA042 CSX1CA 26 14A 24 13A	
XA224	TQ2	A1	05A	CG10CA	00	=		
XA224	TQ2	A1	07A	(06)	01		CD00C0 CG1SC0 10 07A 08 06A	
XA224	TQ2	A2	02B	CG11CA	00	=		
XA224	TQ2	A2	04A	(01)	01		CD01C0 CG1SC0 04 04A 05 03B	
XA225	TQ2	A1	05A	CG11C0	00	=	L101	
XA225	TQ2	A1	07A	(06)	01		SPA042 CG11CA 10 07A 08 06A	
XA224	TQ2	A3	04B	CG12CA	00	=		
XA224	TQ2	A3	02A	(09)	01		CG1SC0 CD02C0 03 02A 07 03A	
XA224	TQ2	A4	07B	CG13CA	00	=		
XA224	TQ2	A4	05B	(15)	01		CG1SC0 CD03C0 11 05B 13 06B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG. NATOR	FACTOR	COMMENT
			AND	OR					
XA224	TQ2	B1	12A		CG14CA	00	=		
XA224	TQ2	B1	14A		(22)	01		CD04C0 CG15C0 26 14A 24 13A	
XA225	TQ2	A2	02B		CG14C0	00	=		L104
XA225	TQ2	A2	04A		(01)	01		CG14CA SPA042 04 04A 05 03B	
XA224	TQ2	B2	09A		CG15CA	00	=		
XA224	TQ2	B2	11A		(14)	01		CG15C0 CD05C0 20 11A 18 10A	
XA225	TQ2	A3	04B		CG15C0	00	=		L105
XA225	TQ2	A3	02A		(09)	01		SPA042 CG15CA 03 02A 07 03A	
XA225	TQ2	B2	09A		CG25C0	00	=		L2 STATE- SET STB
XA225	TQ2	B2	11A		(14)	01		SPA042 CSX2CA 20 11A 18 10A	
XA224	TQ2	B3	10B		CG20CA	00	=		
XA224	TQ2	B3	08B		(21)	01		CD00C0 CG25C0 17 08B 19 09B	
XA225	TQ2	A4	07B		CG20C0	00	=		L200
XA225	TQ2	A4	05B		(15)	01		SPA042 CG20CA 11 05B 13 06B	
XA224	TQ2	B4	13B		CG21CA	00	=		
XA224	TQ2	B4	11B		(27)	01		CG25C0 CD01C0 23 11B 25 12B	
XA225	TQ2	B3	10B		CG21C0	00	=		L201
XA225	TQ2	B3	08B		(21)	01		SPA042 CG21CA 17 08B 19 09B	
XA224	TQ2	C1	18A		CG22CA	00	=		
XA224	TQ2	C1	20A		(38)	01		CD02C0 CG25C0 42 20A 40 19A	
XA224	TQ2	C2	15A		CG23CA	00	=		
XA224	TQ2	C2	17A		(30)	01		CG25C0 CD03C0 36 17A 34 16A	
XA224	TQ2	C3	16B		CG24CA	00	=		
XA224	TQ2	C3	14B		(33)	01		CG25C0 CD04C0 29 14B 31 15B	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	SIGNAL	FACTOR	COMMENT
			AND	OR					
XA224	TQ2	C4	19B		CG25CA	00	=		
XA224	TQ2	C4	17B		(39)	01		CD05C0 CG25C0 35 17B 37 18B	
XA225	TQ2	B4	13B		CG25C0	00	=		L205
XA225	TQ2	B4	11B		(27)	01		SPA042 CG25CA 23 11B 25 12B	
XA225	TQ2	C1	18A		CG33C0	00	=		L3 STATE- AUC PAR
XA225	TQ2	C1	20A		(38)	01		SPA043 CSX3CA 42 20A 40 19A	
XA224	TQ2	D1	24A		CG30CA	00	=		
XA224	TQ2	D1	26A		(52)	01		CD00C0 CG33C0 56 26A 54 25A	
XA225	TQ2	C2	15A		CG30C0	00	=		L300
XA225	TQ2	C2	17A		(30)	01		CG30CA SPA043 36 17A 34 16A	
XA224	TQ2	D2	21A		CG31CA	00	=		
XA224	TQ2	D2	23A		(46)	01		CD01C0 CG33C0 50 23A 48 22A	
XA225	TQ2	C3	16B		CG31C0	00	=		L301
XA225	TQ2	C3	14B		(33)	01		SPA042 CG31CA 29 14B 31 15B	
XA224	TQ2	D3	24B		CG32CA	00	=		
XA224	TQ2	D3	22B		(45)	01		CD02C0 CG33C0 41 22B 43 23B	
XA224	TQ2	D4	27B		CG33CA	00	=		
XA224	TQ2	D4	25B		(51)	01		CG33C0 CD03C0 47 25B 49 26B	
XA223	TQ2	A1	05A		CG34CA	00	=		
XA223	TQ2	A1	07A		(06)	01		CD04C0 CG33C0 10 07A 08 06A	
XA223	TQ2	A2	02B		CG35CA	00	=		
XA223	TQ2	A2	04A		(01)	01		CD05C0 CG33C0 04 04A 05 03B	
XA223	TQ2	A3	04B		CG36CA	00	=		
XA223	TQ2	A3	02A		(09)	01		CG33C0 CD06C0 03 02A 07 03A	

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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
XA225	TQ2	C4 19B	CG36C0	00 =			
XA225	TQ2	C4 17B	(39)	01	CG36CA SPA043 35 17B 37 18B	L306	
XA223	TQ2	A4 07B	CG37CA	00 =			
XA223	TQ2	A4 05B	(15)	01	CG3SCO CD07C0 11 05B 13 06B		
XA225	TQ2	D1 24A	CG37C0	00 =			
XA225	TQ2	D1 26A	(52)	01	SPA043 CG37CA 56 26A 54 25A	L307	
XA225	TQ2	D2 21A	CG4SCO	00 =			
XA225	TQ2	D2 23A	(46)	01	SPA043 CSX4CA 50 23A 48 22A	L4 STATE-	STR GRS
XA223	TQ2	B1 12A	CG40CA	00 =			
XA223	TQ2	B1 14A	(22)	01	CG4SCO CD00C0 26 14A 24 13A		
XA225	TQ2	D3 24B	CG40C0	00 =			
XA225	TQ2	D3 22B	(45)	01	CG40CA SPA043 41 22B 43 23B	L400	
XA223	TQ2	B2 09A	CG41CA	00 =			
XA223	TQ2	B2 11A	(14)	01	CD01C0 CG4SCO 20 11A 18 10A		
XA223	TQ2	B3 10B	CG42CA	00 =			
XA223	TQ2	B3 08B	(21)	01	CG4SCO CD02C0 17 08B 19 09B		
XA223	TQ2	B4 13B	CG43CA	00 =			
XA223	TQ2	B4 11B	(27)	01	CD03C0 CG4SCO 23 11B 25 12B		
XA225	TQ2	D4 27B	CG43C0	00 =			
XA225	TQ2	D4 25B	(51)	01	CG43CA SPA043 47 25B 49 26B	L402	
XA225	TQ2	E1 31A	CG5SCO	00 =			
XA225	TQ2	E1 33A	(66)	01	CSX5CA SPA044 70 33A 68 32A	L5 STATE-	ECH PLL
XA223	TQ2	C1 18A	CG50CA	00 =			
XA223	TQ2	C1 20A	(38)	01	CD00C0 CG5SCO 42 20A 40 19A		

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM.	DESIGNATOR	FACTOR	COMMENT
XA223	TQ2	C2	15A	CG51CA	00	"		
XA223	TQ2	C2	17A	(30)	01		CD01C0 CG55C0 36 17A 34 16A	
XA223	TQ2	C3	16B	CG52CA	00	=		
XA223	TQ2	C3	14B	(33)	01		CD02C0 CG55C0 29 14B 31 15B	
XA223	TQ2	C4	19B	CG53CA	00	=		
XA223	TQ2	C4	17B	(39)	01		CG55C0 CD03C0 35 17B 37 18B	
XA225	TQ2	E2	28A	CG65C0	00	=		L6 STATE- LOA PAG
XA225	TQ2	E2	30A	(60)	01		CSX6CA SPA043 64 30A 62 29A	
XA223	TQ2	D1	24A	CG60CA	00	=		
XA223	TQ2	D1	26A	(52)	01		CG65C0 CD00C0 56 26A 54 25A	
XA225	TQ2	E3	30B	CG60C0	00	=		L600
XA225	TQ2	E3	28B	(57)	01		SPA043 CG60CA 53 28B 55 29B	
XA223	TQ2	D2	21A	CG61CA	00	=		
XA223	TQ2	D2	23A	(46)	01		CG65C0 CD01C0 50 23A 48 22A	
XA223	TQ2	D3	24B	CG62CA	00	=		
XA223	TQ2	D3	22B	(45)	01		CD02C0 CG65C0 41 22B 43 23B	
XA225	TQ2	E4	33B	CG62C0	00	=		L602
XA225	TQ2	E4	31B	(63)	01		SPA043 CG62CA 59 31B 61 32B	
XA223	TQ2	D4	27B	CG63CA	00	=		
XA223	TQ2	D4	25B	(51)	01		CD03C0 CG65C0 47 25B 49 26B	
XA220	TQ2	C1	18A	CG64CA	00	=		
XA220	TQ2	C1	20A	(38)	01		CD04C0 CG65C0 42 20A 40 19A	
XA225	TQ2	F1	37B	CG64C0	00	=		L604
XA225	TQ2	F1	39B	(75)	01		SPA044 CG64CA 79 39B 77 38B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERMINAL	DESIGNATOR	FACTOR	COMMENT
XA220	TQ2	C2	15A	CG65CA	00	=		
XA220	TQ2	C2	17A	(30)	01		CD05C0 CG65C0 36 17A 34 16A	
XA225	TQ2	F2	34A	CG65C0	00	=		
XA225	TQ2	F2	36B	(72)	01		SPA044 CG65CA 73 36B 71 36A	1605
XA220	TQ2	C3	16B	CG66CA	00	=		
XA220	TQ2	C3	14B	(33)	01		CD06C0 CG65C0 29 14B 31 15B	
XA220	TQ2	C4	19B	CG67CA	00	=		
XA220	TQ2	C4	17B	(39)	01		CD07C0 CG65C0 35 17B 37 18B	
XA225	TQ2	F3	35A	CG67C0	00	=		
XA225	TQ2	F3	34B	(69)	01		CG67CA SPA044 65 34B 74 35B	1607
XA225	TQ2	F4	39A	CG75C0	00	=		
XA225	TQ2	F4	37A	(80)	01		SPA044 CSX7CA 76 37A 78 38A	17 STATE- STR ORR
XA222	TQ2	B1	12A	CG70CA	00	=		
XA222	TQ2	B1	14A	(22)	01		CG75C0 CD00C0 26 14A 24 13A	
XA220	TQ2	E3	30B	CG71CA	00	=		
XA220	TQ2	E3	28B	(57)	01		CG75C0 CD01C0 53 28B 55 29B	
XA220	TQ2	D4	27B	CG72CA	00	=		
XA220	TQ2	D4	25B	(51)	01		CD02C0 CG75C0 47 25B 49 26B	
XA333	TLD	F2	34A	CG73CD4	00	=		
XA333	TLD	F2	36B	(72)	01		CG75C0 CS07P0 73 36B 71 36A	UINRPA BUSS
XA216	TD4	A1	05B	CKCPOA	00	=		
XA216	TD4	A1	07A	(11)	01		SPA200 CK00C0 CKCQCA CLOC1B 10 07A 08 06A 06 05A 13 06B	CK00-05 GATED CLOCK
XA230	TD4	E2	30B	CKCQCA	00	=		
XA230	TD4	E2	30A	(57)	01		CSE3KA CSE3HA AMNMZ0 CKCQEO 64 30A 62 29A 60 28A 55 29B	

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XA222	TQ2	B4	13B	CKCQE0	00	*		NRML INH DECR IN E3/E4
XA222	TQ2	B4	11B	(27)	01		CE03CA CE04CA 23 11B 25 12B	
XA216	TD4	F2	35A	CKDBLA	00	=		
XA216	TD4	F2	36B	(69)	01		CMD5BP CMD6BQ SPA200 CMD8BQ 73 36B 71 36A 72 34A 74 35B	
XA220	TQ2	F3	35A	CKDBL0	00	=		BLO CK0005DB2631 DPOL
XA220	TQ2	F3	34B	(69)	01		CKDBLA SPA200 65 34B 74 35B	
XA217	TT3	F3	39A	CKDBTA	00	=		BTR DB2631CK0005 APOL
XA217	TT3	F3	35A	(80)	01		CMD7BQ CMD5BP CMD6BQ 69 35A 76 37A 78 38A	
XA220	TQ2	F4	39A	CKDBT0	00	=		BTR DB2631CK0005 DPOL
XA220	TQ2	F4	37A	(80)	01		SPA03B CKDBTA 76 37A 78 38A	
XA219	TS8	A1	05B	CKEIDA	00	=		(MOD-1CK0005).(CK=00001)
XA219	TS8	A1	07A	(11)	01		CK00BP CK01BP CK02BP CK04BP CK05BQ SPA036 CMC9BQ CK03BP 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA212	TD4	E1	31B	CKL03A	00	=		LOA +00003CK0005 APOL
XA212	TD4	E1	33A	(59)	01		CMC1BP CMC2BP CMC4BP CMC3BQ 70 33A 68 32A 66 31A 61 32B	
XA212	TD4	E2	30B	CKL37A	00	=		LOA +00037CK0005 APOL
XA212	TD4	E2	30A	(57)	01		CMC1BP CMC3BQ CMC2BP CMC4BQ 64 30A 62 29A 60 28A 55 29B	
XA220	TQ2	F2	34A	CKM0D0	00	=		DECREMENT CK DPOL
XA220	TQ2	F2	36B	(72)	01		CMC9BP CKM0EA 73 36B 71 36A	
XA216	TD4	D1	25B	CKM0EA	00	=		MOD-00002CK0005
XA216	TD4	D1	26A	(47)	01		CMC2BQ CMC3BP CMC1BP CMC4BQ 56 26A 54 25A 52 24A 49 26B	
XA306	TQ2	A2	02B	CKM0E0	00	=		DECR CK BY TWO
XA306	TQ2	A2	04A	(01)	01		CKM0EA SPA026 04 04A 05 03B	
XA222	TQ2	A1	05A	CKQ5C0	00	=		DCRC-DECREMENT QTY CONTROL
XA222	TQ2	A1	07A	(06)	01		CK05BQ CKM0EA 10 07A 08 06A	

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CONNECTOR	CIRCUIT GROUP	TEST POINTS AND/OR	EQUATION	TERM.	DESIGNATOR	FACTOR	COMMENT
XA222	TQ2	A2 02B	CKRSTA	00	=		RESET CK REG
XA222	TQ2	A2 04A	(01)	01		CKRSTO SPA039 04 04A 05 03B	
XA221	TT3	F2 35B	CKRSTO	00	=		MASTER RESET / STATES COMPLETE
XA221	TT3	F2 36A	(74)	01		J2RESO SPA039 ET17CA 71 36A 72 34A 65 34B	
XA219	TS8	B1 11B	CKZRCA	00	=		CK=0 APOL
XA219	TS8	B1 14A	(23)	01		CK00BP CK02BP CK04BP CK05BP SPA037 SPA036 CK01BP CK03BP 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA222	TQ2	A3 04B	CKZRCA	00	=		CK=0 OPOL
XA222	TQ2	A3 02A	(09)	01		SPA039 CKZRCA 03 02A 07 03A	
XA219	TS8	C1 17B	CKZRDA	00	=		CK=0 APOL
XA219	TS8	C1 20A	(35)	01		CK00BP CK01BP SPA038 CK05BP CK02BP SPA037 CK03BP CK04BP 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA219	TS8	D1 25B	CKZRKA	00	=		CK=0 APOL
XA219	TS8	D1 26A	(47)	01		CK03PO CK04PO CK05PO SPA038 CK01PO CK00PO CK02PO SPA037 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA219	TS8	E1 31B	CKZUCA	00	=		CK=1 APOL
XA219	TS8	E1 33A	(59)	01		CK04BP CK03BP CK00BP CK05BO SPA038 SPA037 CK01BP CK02BP 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA221	TT3	F3 39A	CKZ1CA	00	=		CK= 0 OR 1, APOL
XA221	TT3	F3 35A	(80)	01		CKZ1CO SPA039 SPA040 69 35A 76 37A 78 38A	
XA222	TQ2	A4 07B	CKZ1CO	00	=		CK EQUALS ZERO OR ONE OPOL
XA222	TQ2	A4 05B	(15)	01		CKZRCA CKZUCA 11 05B 13 06B	
XA215	TDD	CI 13A	CK00BI	00	=		
			( )	01		CK0090 24 13A	
XA215	TDD	CN 14A	CK00BN	00	=		
			( )	01		CKCPOA 26 14A	
XA215	TDD	CP 11B	CK00BP	00	=		MASTER RESET TO 57 OCTAL
XA215	TDD	CP 12A	(23)	01		SPA033 22 12A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM.	DESIG. RATOR	FACTOR	COMMENT
XA215	TDD	CQ	12B	CK00BQ	00	=		
XA215	TDD	CQ	13B	(25)	01		CKRSTA 27 13B	
XA207	TD4	D2	24B	CK00C0	00	=		CK00-05 CLOCK ENABLE
XA207	TD4	D2	23A	(45)	01		CMC9BP CKL03A CKL37A CKDBTA 50 23A 48 22A 46 21A 43 23B	
XA220	TQ2	D2	21A	CK00P0	00	=		CK00BP UNLOAD
XA220	TQ2	D2	23A	(46)	01		CK00BQ SPA038 50 23A 48 22A	
XA217	TT3	C1	17A	CK001A	00	=		DB26 TO CK00
XA217	TT3	C1	20A	(36)	01		CKDBT0 DB26C0 SPA034 42 20A 40 19A 38 18A	
XA217	TT3	A1	04A	CK002A	00	=		DECR HOLD CK00 SET
XA217	TT3	A1	07A	(04)	01		CK00BQ CKMOD0 CK003A 10 07A 08 06A 06 05A	
XA218	TS8	A1	05B	CK003A	00	=		DECR INHIBIT CK00 HOLD
XA218	TS8	A1	07A	(11)	01		CK03P0 CK02P0 CKQ5C0 CK01P0 SPA036 SPA035 SPA037 CK04P0 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA220	TQ2	D1	24A	CK0090	00	=		SET CK00 DATA
XA220	TQ2	D1	26A	(52)	01		CK001A CK002A 56 26A 54 25A	
				CK01B1	00	=		
XA215	TDD	D1	10A	( )	01		CK0190 18 10A	
				CK01B1N	00	=		
XA215	TDD	DN	09A	( )	01		CKCPOA 14 09A	
XA215	TDD	DP	10B	CK01BP	00	=		
XA215	TDD	DP	11A	(21)	01		CKRSTA 20 11A	
XA215	TDD	DQ	09B	CK01BQ	00	=		
XA215	TDD	DQ	08B	(19)	01		SPA034 17 08B	
XA220	TQ2	D3	24B	CK01P0	00	=		CK01BP UNLOAD
XA220	TQ2	D3	22B	(45)	01		SPA037 CK01BQ 41 22B 43 23B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA217	TT3	C2	15B	CK011A	00	=		DB27 TO CK01
XA217	TT3	C2	16A	(31)	01		DB27C0 SPA034 CKDBT0 34 16A 30 15A 29 14B	
XA217	TT3	A2	03A	CK012A	00	=		DECR HOLD CK01 SET
XA217	TT3	A2	03B	(07)	01		CK018Q CKMOD0 CK013A 05 03B 01 02B 03 02A	
XA216	TD4	B1	11B	CK013A	00	=		DECR INHIBIT CK01 HOLD
XA216	TD4	B1	14A	(23)	01		CK02P0 CK03P0 CK04P0 CK05C0 26 14A 24 13A 22 12A 25 12B	
XA218	TS8	B1	11B	CK014A	00	=		DECR SET CK01
XA218	TS8	B1	14A	(23)	01		CKMOD0 CKZRKA CK05C0 SPA036 CK03P0 CK01P0 CK02P0 CK04P0 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA216	TD4	B2	10B	CK0190	00	=		SET CK01 DATA
XA216	TD4	B2	11A	(21)	01		CK011A CK014A CK012A CKL37A 20 11A 18 10A 14 09A 19 09B	
				CK028I	00	=		
XA215	TDD	EI	19A	( )	01		CK0290 40 19A	
				CK028N	00	=		
XA215	TDD	EN	20A	( )	01		CKCPOA 42 20A	
XA215	TDD	EP	17B	CK028P	00	=		
XA215	TDD	EP	18A	(35)	01		SPA035 38 18A	
XA215	TDD	EQ	18B	CK028Q	00	=		
XA215	TDD	EQ	19B	(37)	01		CKRSTA 39 19B	
XA222	TQ2	B3	10B	CK02P0	00	=		CK028P UNLOADED
XA222	TQ2	B3	08B	(21)	01		SPA039 CK028Q 17 08B 19 09B	
XA217	TT3	C3	19B	CK021A	00	=		DB28 TO CK02
XA217	TT3	C3	16B	(39)	01		CKDBT0 SPA034 DB28C0 33 16B 35 17B 37 18B	
XA217	TT3	A3	07B	CK022A	00	=		DECR HOLD CK02 SET
XA217	TT3	A3	04B	(15)	01		CKMOD0 CK023A CK028Q 09 04B 11 05B 13 06B	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA216	TD4	A2	04B	CK023A	00	=		DECR INHIBIT CK02 HOLD
XA216	TD4	A2	04A	(09)	01		CK04P0 CKQ5C0 CK03P0 SPA034 04 04A 05 03B 01 02B 07 03A	
XA218	TS8	C1	17B	CK024A	00	=		DECR SET CK02
XA218	TS8	C1	20A	(35)	01		SPA037 CK04P0 CKQ5C0 CKM0D0 CK02P0 SPA036 CKZRKA CK03P0 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA216	TD4	C1	17B	CK0290	00	=		SET CK02 DATA
XA216	TD4	C1	20A	(35)	01		CKL37A CK021A CK024A CK022A 42 20A 40 19A 38 18A 37 18B	
XA215	TDD	FI	16A	CK038I	00	=		
XA215	TDD	FI	16A	( )	01		CK0390 34 16A	
XA215	TDD	FN	15A	CK038N	00	=		
XA215	TDD	FN	15A	( )	01		CKCPOA 30 15A	
XA215	TDD	FP	16B	CK038P	00	=		
XA215	TDD	FP	17A	(33)	01		SPA033 36 17A	
XA215	TDD	FQ	15B	CK038Q	00	=		
XA215	TDD	FQ	14B	(31)	01		CKR5YA 29 14B	
XA220	TQ2	E1	31A	CK03P0	00	=		CK03BP UNLOAD
XA220	TQ2	E1	33A	(66)	01		SPA038 CK03BQ 70 33A 68 32A	
XA217	TT3	D1	23A	CK031A	00	=		DB29 TO CK03
XA217	TT3	D1	26A	(50)	01		SPA035 CKDBT0 DB29C0 56 26A 54 25A 52 24A	
XA217	TT3	B2	09B	CK032A	00	=		DECR HOLD CK03 SET
XA217	TT3	B2	10A	(19)	01		CK033A CKM0D0 CK03BQ 18 10A 14 09A 17 08B	
XA220	TQ2	E2	28A	CK033A	00	=		DECR INHIBIT CK03 HOLD
XA220	TQ2	E2	30A	(60)	01		CK04P0 CKQ5C0 64 30A 62 29A	
XA218	TS8	D1	25B	CK034A	00	=		DECR SET CK03
XA218	TS8	D1	26A	(47)	01		SPA038 SPA037 CKZRKA CKQ5C0 CK04P0 CK03P0 CKM0D0 SPA036 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	

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CONNECTOR	CAGE TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG- NATOR	FACTOR	COMMENT
XA216	TD4	C2	16B	CK0390	00	=		SET CK03 DATA
XA216	TD4	C2	17A	( 33 )	01		CK034A CKL37A CK032A CK031A 36 17A 34 16A 30 15A 31 15B	
				CK048I	00	=		
XA215	TDD	GI	25A	( )	01		CK0490 54 25A	
				CK048N	00	=		
XA215	TDD	GN	26A	( )	01		CKCPOA 56 26A	
XA215	TDD	GP	25B	CK048P	00	=		
XA215	TDD	GP	24A	( 47 )	01		SPA035 52 24A	
XA215	TDD	GQ	26B	CK048Q	00	=		
XA215	TDD	GQ	27B	( 49 )	01		CKRSTA 51 27B	
XA222	TQ2	B2	09A	CK04P0	00	=		CK048P UNLOAD
XA222	TQ2	B2	11A	( 14 )	01		SPA039 CK048Q 20 11A 18 10A	
XA217	TT3	D2	23B	CK041A	00	=		DB30 TO CK04
XA217	TT3	D2	22A	( 43 )	01		DB30C0 CKDBT0 SPA035 48 22A 46 21A 41 22B	
XA217	TT3	B3	13B	CK042A	00	=		DECR HOLD CK04 SET
XA217	YY3	B3	10B	( 27 )	01		CKM0D0 CK048Q CK043A 21 10B 23 11B 25 12B	
XA220	TQ2	E4	33B	CK043A	00	=		DECR INHIBIT CK04 HOLD
XA220	TQ2	E4	31B	( 63 )	01		CKQ5C0 SPA038 59 31B 61 32B	
XA216	TD4	E1	31B	CK044A	00	=		
XA216	TD4	E1	33A	( 59 )	01		CKQ5C0 CKZRC A CKM0D0 CK048P 70 33A 68 32A 66 31A 61 32B	
XA218	TS8	E1	31B	CK0490	00	=		SET CK04 DATA
XA218	TS8	E1	33A	( 59 )	01		SPA038 SPA037 SPA036 CK042A CK041A CKL03A CKL37A CK044A 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
				CK058I	00	=		
XA215	TDD	HI	22A	( )	01		CK0590 48 22A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA215	TDD	HN	21A	CK05BN ( )	00	=	CKCP0A 46 21A	
XA215	TDD	HP	24B	CK05BP (45 )	00	=		
XA215	TDD	HP	23A		01		SPA035 50 23A	
XA215	TDD	HQ	23B	CK05BQ (43 )	00	=		
XA215	TDD	HQ	22B		01		CKRSTA 41 22B	
XA220	TQ2	F1	37B	CK05P0 (75 )	00	=		CK05BP UNLOAD
XA220	TQ2	FI	39B		01		SPA039 CK05BQ 79 39B 77 38B	
XA217	TT3	E1	30A	CK05Q0 (64 )	00	=		CK05BQ UNLOAD
XA217	TT3	E1	33A		01		SPA036 SPA035 CK05BP 70 33A 68 32A 66 31A	
XA217	TT3	D3	27B	CK051A (51 )	00	=		DB31 TO CK05
XA217	TT3	D3	24B		01		DB31C0 CKDBT0 SPA035 45 24B 47 25B 49 26B	
XA212	TD4	F1	37A	CK052A (76 )	00	=		DECR BY 1 OR 2 SET CK05
XA212	TD4	FI	39B		01		CKM0D0 CKZRKA CK053A CK054A 79 39B 77 38B 75 37B 78 38A	
XA204	TQ2	E1	31A	CK053A (66 )	00	=		DECR BY ONE INH SET
XA204	TQ2	E1	33A		01		CK05BQ CKM0EA 70 33A 68 32A	
XA204	TQ2	F1	37B	CK054A (75 )	00	=		DECR BY TWO INH SET
XA204	TQ2	FI	39B		01		CK05P0 CKM0E0 79 39B 77 38B	
XA216	TD4	D2	24B	CK0590 (45 )	00	=		SET CK05 DATA
XA216	TD4	D2	23A		01		CKL03A CK052A CKL37A CK051A 50 23A 48 22A 46 21A 43 23B	
				CLCPAB ( )	00	=		
XA127	TT3	F1	36B		01		CLCP1A 73 36B	
XA127	TT3	F2	35B		02	+	CLCP2A 74 35B	
XA127	TT3	F3	39A		03	+	CLCP3A 80 39A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA127	TT3	F1	36B	CLCP1A	00	=		CLCPAB BUSS
XA127	TT3	F1	39B	(73 )	01		SPA015 CLC0C0 CLOCLB 79 39B 77 38B 75 37B	
XA127	TT3	F2	35B	CLCP2A	00	=		CLCPAB BUSS
XA127	TT3	F2	36A	(74 )	01		CLOCLB SPA015 CLC0C0 71 36A 72 34A 65 34B	
XA127	TT3	F3	39A	CLCP3A	00	=		CLCPAB BUSS
XA127	TT3	F3	35A	(80 )	01		CLOCLB CLC0C0 SPA015 69 35A 76 37A 78 38A	
XA123	TQ2	F1	37B	CLCQCO	00	=		INCR CL DR BTR DB-CL CLK CONT
XA123	TQ2	F1	39B	(75 )	01		CLDBTA CLMODA 79 39B 77 38B	
XA121	TS8	F1	37A	CLC0C0	00	=		CL CLOCK ENABLE
XA121	TS8	F1	39B	(76 )	01		CLC3DA CLC5DA CLC2EA CLC1CA CLC3CA CLC2CA CLC2DA CLC4DA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA126	TT3	E1	30A	CLC1CA	00	=		INCR AT STATE F0 (CS=F1)
XA126	TT3	E1	33A	(64 )	01		CF01C0 UINRPB CLMODB 70 33A 68 32A 66 31A	
XA126	TT3	E2	29B	CLC2CA	00	=		CLK QUAL BY AC00*
XA126	TT3	E2	29A	(55 )	01		AC00BP CLCQCO CQC040 62 29A 60 28A 53 28B	
XA126	TT3	E3	33B	CLC2DA	00	=		CLK QUAL BY ACZR
XA126	TT3	E3	30B	(63 )	01		CLCQCO ACZRCA CQC050 57 30B 59 31B 61 32B	
XA126	TT3	F1	36B	CLC2EA	00	=		CLK QUAL BY ACZR*
XA126	TT3	F1	39B	(73 )	01		CQC060 ACZRCA CLCQCO 79 39B 77 38B 75 37B	
XA126	TT3	F2	35B	CLC3CA	00	=		BTR QUAL BY AC00
XA126	TT3	F2	36A	(74 )	01		CQC030 AC00BQ CLDBTB 71 36A 72 34A 65 34B	
XA126	TT3	F3	39A	CLC3DA	00	=		
XA126	TT3	F3	35A	(80 )	01		CLDBTB CQC070 ACZ1CA 69 35A 76 37A 78 38A	TRANSFER DBL TO CL OPO L
XA123	TQ2	F2	34A	CLC4DA	00	=		BTR UNQUALIFIED
XA123	TQ2	F2	36B	(72 )	01		CLC4E0 CLDBTB 73 36B 71 36A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA202	TS8	E1	31B		CLC4E0	00	N		XFR/XLK/XSH/XIN/DIG/CH=0YCTS-
XA202	TS8	E1	33A		(59)	01		SPA071 URECVB CLDGUA CLDGTA C073CA C061CA CX60CA C161CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA123	TQ2	F3	35A		CLC5DA	00	N		INCR-CL-ATES/DIGI
XA123	TQ2	F3	34B		(69)	01		EEDTC0 CLMODB 65 34B 74 35B	
					CLDBLB	00	N		
XA122	TT3	E1	30A		( )	01		CLDBL0 64 30A	BLO CL0007DB1623
XA122	TT3	E2	29B		( )	02	+	CLDBM0 55 29B	BLO CL0007DB1623
XA122	TT3	E1	30A		CLDBL0	00	=		CLDBLB BUSS
XA122	TT3	E1	33A		(64)	01		CMD9BP CLDGRA CLDGPA 70 33A 68 32A 66 31A	
XA122	TT3	E2	29B		CLDBM0	00	=		CLDBLB BUSS
XA122	TT3	E2	29A		(55)	01		CLDGPA CMD9BP CLDGRA 62 29A 60 28A 53 28B	
XA120	TD4	F2	35A		CLDBNO	00	=		BLO CL0814DB2430
XA120	TD4	F2	36B		(69)	01		CLDGRA CMD9BP CLDGPA CLDGLA 73 36B 71 36A 72 34A 74 35B	
XA120	TD4	F1	37A		CLDBTA	00	=		BTR DB1630CL0014 APOL
XA120	TD4	F1	39B		(76)	01		CMD8BQ CMD5BQ CMD6BQ CMD7BP 79 39B 77 38B 75 37B 78 38A	
					CLDBTB	00	=		
XA122	TT3	F1	36B		( )	01		CLDBU0 73 36B	
XA122	TT3	F2	35B		( )	02	+	CLDBV0 74 35B	
XA122	TT3	F1	36B		CLDBU0	00	=		CLDBTB BUSS
XA122	TT3	F1	39B		(73)	01		CLDBTA CLDGUA CLDGTA 79 39B 77 38B 75 37B	
XA122	TT3	F2	35B		CLDBV0	00	=		CLDBTB BUSS
XA122	TT3	F2	36A		(74)	01		CLDGUA CLDBTA CLDGTA 71 36A 72 34A 65 34B	
XA123	TQ2	D1	24A		CLDGLA	00	=		(GA=0).(BLO GR2431DB2431)
XA123	TQ2	D1	26A		(52)	01		GC0140 GC0130 56 26A 54 25A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESGNATOR	FACTOR	COMMENT
XAI23	TQ2	D2	21A	CLDGNA	00	=		(GA=01.(BLO GR0015DB1631)
XAI23	TQ2	D2	23A	(46)	01		GC0140 GC0120 50 23A 48 22A	
XAI23	TQ2	D3	24B	CLDGPA	00	=		(GA=01.(BLO GR1631DB1631)
XAI23	TQ2	D3	22B	(45)	01		GC0140 GC0110 41 22B 43 23B	
XAI23	TQ2	D4	27B	CLDGRA	00	=		(GA=01.(BLO GR0031DB0031)
XAI23	TQ2	D4	25B	(51)	01		GC0100 GC0140 47 25B 49 26B	
XAI23	TQ2	E1	31A	CLDGTA	00	=		(GA=01.(BTR DB0031GR0031)
XAI23	TQ2	E1	33A	(66)	01		GC0140 GC0350 70 33A 68 32A	
XAI23	TQ2	E2	28A	CLDGUA	00	=		(GA=01.(BTRDB1631GR1631)
XAI23	TQ2	E2	30A	(60)	01		GC0140 GC0360 64 30A 62 29A	
XAI23	TQ2	E3	30B	CLDGVA	00	=		(GA=01.(BTR DB1631GR0015)
XAI23	TQ2	E3	28B	(57)	01		GC0370 GC0140 53 28B 55 29B	
XAI23	TQ2	E4	33B	CLDGWA	00	=		(GA=01.(BTR DB0015GR0015)
XAI23	TQ2	E4	31B	(63)	01		GC0380 GC0140 59 31B 61 32B	
XAI22	TY3	A1	07A	CLITAO	00	=		
				( )	01		SPI005 10 07A	
XAI20	TD4	E1	31B	CLMODA	00	=		MOD +00002CL0014 AP01
XAI20	TD4	E1	33A	(59)	01		CMD8BP CMD7BP CMD6BP CMD5BQ 70 33A 68 32A 66 31A 61 32B	
				CLMODB	00	=		
XAI24	TQ2	A1	05A	( )	01		CLMOE0 06 05A	
XAI24	TQ2	A2	02B	( )	02	+	CLMOF0 01 02B	
XAI24	TQ2	A3	04B	( )	03	+	CLMOG0 09 04B	
XAI24	TQ2	A4	07B	( )	04	+	CLM0H0 15 07B	
XAI24	TQ2	A1	05A	CLMOE0	00	=		CLMODB BUSS
XAI24	TQ2	A1	07A	(06)	01		CLMODA SPA014 10 07A 08 06A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA124	TQ2	A2	02B	CLM0F0	00	=		
XA124	TQ2	A2	04A	(01)	01		SPA014 CLMODA 04 04A 05 03B	CLMODB BUSS
XA124	TQ2	A3	04B	CLMOGO	00	=		
XA124	TQ2	A3	02A	(09)	01		SPA014 CLMODA 03 02A 07 03A	CLMODB BUSS
XA124	TQ2	A4	07B	CLMOHO	00	=		
XA124	TQ2	A4	05B	(15)	01		SPA014 CLMODA 11 05B 13 06B	CLMODB BUSS
XA120	TD4	E2	30B	CLSPAA	00	=		
XA120	TD4	E2	30A	(57)	01		CL09BP CLUBZ0 CLO8BP C066CA 64 30A 62 29A 60 28A 55 29B	
XA121	TS8	E1	31B	CLUBZA	00	=		
XA121	TS8	E1	33A	(59)	01		CL01BP CL03BP CLO6BP CLO5BP CLO7BP CLO2BP CLO4BP CLO8BP 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA123	TQ2	F4	39A	CLUBZ0	00	=		
XA123	TQ2	F4	37A	(80)	01		CLUBZA SPA014 76 37A 78 38A	CL UPPER BYTE=ZERO
				CLOCKB	00	=		
XA348	TQ2	A2	02B	( )	01		CTNK10 01 02B	
XA348	TQ2	B2	09A	( )	02	+	CTNK20 14 09A	
XA348	TQ2	C2	15A	( )	03	+	CTNK30 30 15A	
XA348	TQ2	D3	24B	( )	04	+	CTNK40 45 24B	
				CLOCLB	00	=		
XA348	TQ2	A1	05A	( )	01		CTNL10 06 05A	
XA348	TQ2	B3	10B	( )	02	+	CTNL20 21 10B	
XA348	TQ2	C3	16B	( )	03	+	CTNL30 33 16B	
XA348	TQ2	D2	21A	( )	04	+	CTNL40 46 21A	
				CLOCMB	00	=		
XA348	TQ2	A3	04B	( )	01		CTNM10 09 04B	
XA348	TQ2	B1	12A	( )	02	+	CTNM20 22 12A	
XA348	TQ2	C1	18A	( )	03	+	CTNM30 38 18A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA348	TQ2	D4	27B	( )	04	+	CTNM40 51 27B	
XA128	TDD	AI	06A	CLOOBI ( )	00	=	CLO090 08 06A	
XA128	TDD	AN	07A	CLOOBN ( )	00	=	CLCPAB 10 07A	CL GATED CLOCK APOL
XA128	YDD	AP	05B	CLOOBP (11 )	00	=	SPA016 06 05A	
XA128	TDD	AP	05A		01			
XA128	YDD	AQ	06B	CLOOBQ (13 )	00	=	SPA015 15 07B	
XA128	TDD	AQ	07B		01			
XA124	TQ2	C1	18A	CLOO1A (38 )	00	=	DB16C0 CLDBTB 42 20A 40 19A	DB16 TO CLOO
XA124	TQ2	C1	20A		01			
XA126	YT3	A1	04A	CLOO2A (04 )	00	=	CLMODB CLOOBP CLOO40 10 07A 08 06A 06 05A	INCR SET CLOO INCREMENT CL OPOL
XA126	YT3	A1	07A		01			
XA126	YT3	A2	03A	CLOO3A (07 )	00	=	CLOO4A CLOOBQ CLMODB 05 03B 01 02B 03 02A	INCR HOLD CLOO
XA126	YT3	A2	03B		01			
XA125	YT3	A3	07B	CLOO4A (15 )	00	=	LOG PRODUCT CLO1 THRU CL14 CLO28Q CLO240 CLO18Q 09 04B 11 05B 13 06B	
XA125	YT3	A3	04B		01			
XA124	TQ2	B1	12A	CLOO40 (22 )	00	=	SPA015 CLOO4A 26 14A 24 13A	
XA124	TQ2	B1	14A		01			
XA127	YT3	A1	04A	CLOO90 (04 )	00	=	SET CLOO DATA CLOO1A CLOO2A CLOO3A 10 07A 08 06A 06 05A	
XA127	YT3	A1	07A		01			
XA128	TDD	BI	03B	CLO1BI ( )	00	=	CLO190 05 03B	
XA128	TDD	BN	02B	CLO1BN ( )	00	=	CLCPAB 01 02B	CL GATED CLOCK APOL



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA128	TDD	BP	04B	CLO1BP	00	=		
XA128	TDD	BP	04A	(09)	01		SPA016 04 04A	
XA128	TDD	BQ	03A	CLO1BQ	00	=		
XA128	TDD	BQ	02A	(07)	01		SPA015 03 02A	
XA124	TQ2	C2	15A	CLO11A	00	=		0817 TO CLO1
XA124	TQ2	C2	17A	(30)	01		DB17C0 CLO8TB 36 17A 34 16A	
XA125	TT3	A1	04A	CLO12A	00	=		INCR SET CLO1
XA125	TT3	A1	07A	(04)	01		CLO1BP CLO140 CLMOD8 10 07A 08 06A 06 05A	
XA125	TT3	A2	03A	CLO13A	00	=		INCR HOLD CLO1
XA125	TT3	A2	03B	(07)	01		CLO14A CLO1BQ CLMOD8 05 03B 01 02B 03 02A	
XA126	TT3	A3	07B	CLO14A	00	=		LOG PROD CLO2 THRU CLO14
XA126	TT3	A3	04B	(15)	01		SPA015 CLO240 CLO2BQ 09 04B 11 05B 13 06B	
XA123	TQ2	A1	05A	CLO140	00	=		
XA123	TQ2	A1	07A	(06)	01		SPA013 CLO14A 10 07A 08 06A	
XA127	TT3	A2	03A	CLO190	00	=		SET CLO1 DATA
XA127	TT3	A2	03B	(07)	01		CLO11A CLO12A CLO13A 05 03B 01 02B 03 02A	
XA128	TDD	CI	13A	CLO2BI	00	=		
XA128	TDD	CI		( )	01		CLO290 24 13A	
XA128	TDD	CN	14A	CLO2BN	00	=		
XA128	TDD	CN		( )	01		CLCPAB 26 14A	CL GATED CLOCK APOL
XA128	TDD	CP	11B	CLO2BP	00	=		
XA128	TDD	CP	12A	(23)	01		SPA016 22 12A	
XA128	TDD	CQ	12B	CLO2BQ	00	=		
XA128	TDD	CQ	13B	(25)	01		SPA017 27 13B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS	EQUATION	TERM	ORIGIN FACTOR	FACTOR	COMMENT
			AND OR					
XA124	TQ2	C3	16B	CL021A	00	=		
XA124	TQ2	C3	14B	(33)	01		CL0B7B DB18C0 29 14B 31 15B	DB18 TO CL02 TRANSFER DBL TO CL OPOL
XA126	TT3	B1	11A	CL022A	00	=		
XA126	TT3	B1	14A	(20)	01		CLM00B CL028P CL0240 26 14A 24 13A 22 12A	INCR SET CL02 INCREMENT CL OPOL
XA126	TT3	B2	09B	CL023A	00	=		
XA126	TT3	B2	10A	(19)	01		CL024A CLM00B CL028Q 18 10A 14 09A 17 08B	INCR HOLD CL02
XA125	TT3	B2	09B	CL024A	00	=		
XA125	TT3	B2	10A	(19)	01		SPA015 CL0250 CL0640 18 10A 14 09A 17 08B	LOG PROD CL03 THRU CL14
XA124	TQ2	B2	09A	CL0240	00	=		
XA124	TQ2	B2	11A	(14)	01		SPA014 CL024A 20 11A 18 10A	
XA120	TD4	B1	11B	CL025A	00	=		
XA120	TD4	B1	14A	(23)	01		CL068Q CL058Q CL048Q CL038Q 26 14A 24 13A 22 12A 25 12B	LOG PROD CL03 THRU CL06
XA123	TQ2	A2	02B	CL0250	00	=		
XA123	TQ2	A2	04A	(01)	01		CL025A SPA013 04 04A 05 03B	
XA127	TT3	A3	07B	CL0290	00	=		
XA127	TT3	A3	04B	(15)	01		CL023A CL021A CL022A 09 04B 11 05B 13 06B	SET CL02 DATA
XA128	TDD	DI	10A	CL038I	00	=		
				( )	01		CL0390 18 10A	
XA128	TDD	DN	09A	CL038N	00	=		
				( )	01		CLCPAB 14 09A	CL GATED CLOCK APOL
XA128	TDD	DP	10B	CL038P	00	=		
XA128	TDD	DP	11A	(21)	01		SPA016 20 11A	
XA128	TDD	DQ	09B	CL038Q	00	=		
XA128	TDD	DQ	08B	(19)	01		SPA017 17 08B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA124	TQ2	C4	19B	CL031A	00	=		
XA124	TQ2	C4	17B	(39)	01		CLD8TB DB19C0 35 17B 37 18B	DB19 TO CL03 TRANSFER DBL TO CL OPOL
XA125	TT3	B1	11A	CL032A	00	=		
XA125	TT3	B1	14A	(20)	01		CLMODB CL03BP CL0340 26 14A 24 13A 22 12A	INCR SET CL03 INCREMENT CL OPOL
XA126	TT3	B3	13B	CL033A	00	=		
XA126	TT3	B3	10B	(27)	01		CL03BQ CLMODB CL034A 21 10B 23 11B 25 12B	INCR HOLD CL03
XA120	TD4	B2	10B	CL034A	00	=		
XA120	TD4	B2	11A	(21)	01		CL04BQ CL05BQ CL0640 CL06BQ 20 11A 18 10A 14 09A 19 09B	LOG PROD CL04 THRU CL14
XA123	TQ2	A3	04B	CL0340	00	=		
XA123	TQ2	A3	02A	(09)	01		SPA013 CL034A 03 02A 07 03A	
XA127	TT3	B1	11A	CL0390	00	=		
XA127	TT3	B1	14A	(20)	01		CL031A CL033A CL032A 26 14A 24 13A 22 12A	SET CL03 DATA
XA128	TDD	E1	19A	CL04BI	00	=		
XA128	TDD	E1	19A	( )	01		CL0490 40 19A	
XA128	TDD	EN	20A	CL04BN	00	=		
XA128	TDD	EN	20A	( )	01		CLCPAB 42 20A	CL GATED CLOCK APOL
XA128	TDD	EP	17B	CL04BP	00	=		
XA128	TDD	EP	18A	(35)	01		SPA016 38 18A	
XA128	TDD	EQ	18B	CL04BQ	00	=		
XA128	TDD	EQ	19B	(37)	01		SPA017 39 19B	
XA124	TQ2	D1	24A	CL041A	00	=		
XA124	TQ2	D1	26A	(52)	01		DB20C0 CLD8TB 56 26A 54 25A	DB20 TO CL04
XA126	TT3	C1	17A	CL042A	00	=		
XA126	TT3	C1	20A	(36)	01		CLMODB CL04BP CL0440 42 20A 40 19A 38 18A	INCR SET CL04 INCREMENT CL OPOL

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XAI26	TT3	C2	15B	CL043A	00	=		
XAI26	TT3	C2	16A	(31)	01		CL048Q CLMODB CL044A 34 16A 30 15A 29 14B	INCR HOLD CL04
XAI25	TT3	C3	19B	CL044A	00	=		
XAI25	TT3	C3	16B	(39)	01		CL068Q CL0640 CL058Q 33 16B 35 17B 37 18B	LOG PROD CLOS THRU CL14
XAI24	TQ2	B3	10B	CL0440	00	=		
XAI24	TQ2	B3	08B	(21)	01		SPA014 CL044A 17 08B 19 09B	
XAI27	TT3	B2	09B	CL0490	00	=		
XAI27	TT3	B2	10A	(19)	01		CL042A CL043A CL041A 18 10A 14 09A 17 08B	SET CL04 DATA
				CL05BI	00	=		
XAI28	TDD	FI	16A	( )	01		CL0590 34 16A	
				CL05BN	00	=		
XAI28	TDD	FN	15A	( )	01		CLCPAB 30 15A	CL GATED CLOCK APOL
XAI28	TDD	FP	16B	CL05BP	00	=		
XAI28	TDD	FP	17A	(33)	01		SPA016 36 17A	
XAI28	TDD	FQ	15B	CL05BQ	00	=		
XAI28	TDD	FQ	14B	(31)	01		SPA017 29 14B	
XAI24	TQ2	D2	21A	CL051A	00	=		
XAI24	TQ2	D2	23A	(46)	01		DB21C0 CLDBTB 50 23A 48 22A	DB21 TO CL05
XAI25	TT3	C1	17A	CL052A	00	=		
XAI25	TT3	C1	20A	(36)	01		CL058P CLMODB CL0540 42 20A 40 19A 38 18A	INCR SET CL05
XAI25	TT3	C2	15B	CL053A	00	=		
XAI25	TT3	C2	16A	(31)	01		CL054A CLMODB CL058Q 34 16A 30 15A 29 14B	INCR HOLD CL05
XAI26	TT3	C3	19B	CL054A	00	=		
XAI26	TT3	C3	16B	(39)	01		SPA012 CL068Q CL0640 33 16B 35 17B 37 18B	LOG PROD CLOS THRU CL14

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA123	TQ2	A4	07B	CL0540	00	=		
XA123	TQ2	A4	05B	(15)	01		SPA013 CL054A 11 05B 13 06B	
XA127	TT3	B3	13B	CL0590	00	=		SET CL05 DATA
XA127	TT3	B3	10B	(27)	01		CL053A CL052A CL051A 21 10B 23 11B 25 12B	
XA128	TDD	GI	25A	CL068I	00	=		
XA128	TDD	GI		( )	01		CL0690 54 25A	
XA128	TDD	GN	26A	CL068N	00	=		
XA128	TDD	GN		( )	01		CLCPAB 56 26A	CL GATED CLOCK APOL
XA128	TDD	GP	25B	CL068P	00	=		
XA128	TDD	GP	24A	(47)	01		SPA016 52 24A	
XA128	TDD	GQ	26B	CL068Q	00	=		
XA128	TDD	GQ	27B	(49)	01		SPA017 51 27B	
XA124	TQ2	D3	24B	CL061A	00	=		DB22 TO CL06
XA124	TQ2	D3	22B	(45)	01		CLDBTB DB22C0 41 22B 43 23B	TRANSFER DBL TO CL OPOL
XA126	TT3	D1	23A	CL062A	00	=		INCR SET CL06
XA126	TT3	D1	26A	(50)	01		CLM0DB CL068P CL0640 56 26A 54 25A 52 24A	INCREMENT CL OPOL
XA126	TT3	D2	23B	CL063A	00	=		INCR HOLD CL06
XA126	TT3	D2	22A	(43)	01		CL064A CL068Q CLM0DB 48 22A 46 21A 41 22B	
XA121	TS8	D1	25B	CL064A	00	=		LOG PROD CL07 THRU CL14
XA121	TS8	D1	26A	(47)	01		CL10BQ CL09BQ CL08BQ CL14BQ CL12BQ CL11BQ CL13BQ CL07BQ 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA123	TQ2	B1	12A	CL0640	00	=		
XA123	TQ2	B1	14A	(22)	01		CL064A SPA013 26 14A 24 13A	
XA127	TT3	C1	17A	CL0690	00	=		SET CL06 DATA
XA127	TT3	C1	20A	(36)	01		CL061A CL062A CL063A 42 20A 40 19A 38 18A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
				CL07BI	00	=		
XA128	TDD	HI	22A	( )	01		CL0190 48 22A	
				CL07BN	00	=		
XA128	TDD	HN	21A	( )	01		CLCPAB 46 21A	CL GATED CLOCK APOL
XA128	TDD	HP	24B	CL07BP	00	=		
XA128	TDD	HP	23A	(45 )	01		SPA016 50 23A	
XA128	TDD	HQ	23B	CL07BQ	00	=		
XA128	TDD	HQ	22B	(43 )	01		SPA017 41 22B	
XA124	TQ2	D4	27B	CL071A	00	=		
XA124	TQ2	D4	25B	(51 )	01		CLDBTB DB23C0 47 25B 49 26B	DB23 TO CL07 TRANSFER DBL TO CL OPD
XA125	TT3	B3	13B	CL072A	00	=		
XA125	TT3	B3	10B	(27 )	01		CL0740 CL07BP CLM0DB 21 10B 23 11B 25 12B	INCR SET CL07
XA125	TT3	D3	27B	CL073A	00	=		
XA125	TT3	D3	24B	(51 )	01		CL07BQ CLM0DB CL074A 45 24B 47 25B 49 26B	INCR HOLD CL07
XA120	TD4	D1	25B	CL074A	00	=		
XA120	TD4	D1	26A	(47 )	01		CL1040 CL09BQ CL08BQ CL10BQ 56 26A 54 25A 52 24A 49 26B	LOG PROD CL08 THRU CL14
XA123	TQ2	B2	09A	CL0740	00	=		
XA123	TQ2	B2	11A	(14 )	01		CL074A SPA013 20 11A 18 10A	
XA127	TT3	C2	15B	CL0790	00	=		
XA127	TT3	C2	16A	(31 )	01		CL071A CL072A CL073A 34 16A 30 15A 29 14B	SET CL07 DATA
				CL08BI	00	=		
XA128	TDD	J1	32A	( )	01		CL0890 68 32A	
				CL08BN	00	=		
XA128	TDD	JN	33A	( )	01		CLCPAB 70 33A	CL GATED CLOCK APOL

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
XA128	TDD	JP	31B	CL08BP	00	=		
XA128	TDD	JP	31A	(59)	01		SPA016 66 31A	
XA128	TDD	JQ	32B	CL08BQ	00	=		
XA128	TDD	JQ	33B	(61)	01		SPA017 63 33B	
XA124	TQ2	E1	31A	CL081A	00	=		DB24 TO CL08
XA124	TQ2	E1	33A	(66)	01		DB24C0 CLDBTB 70 33A 68 32A	
XA125	TT3	D1	23A	CL082A	00	=		INCR SET CL08
XA125	TT3	D1	26A	(50)	01		CLM0DB CL08BP CL0840 56 26A 54 25A 52 24A	INCREMENT CL OPOL
XA125	TT3	D2	23B	CL083A	00	=		INCR HOLD CL08
XA125	TT3	D2	22A	(43)	01		CL08BQ CLM0DB CL084A 48 22A 46 21A 41 22B	
XA126	TT3	D3	27B	CL084A	00	=		LOG PROD CL09 THRU CL14
XA126	TT3	D3	24B	(51)	01		CLI040 CLI08Q CL09BQ 45 24B 47 25B 49 26B	
XA123	TQ2	B3	10B	CL0840	00	=		
XA123	TQ2	B3	08B	(21)	01		SPA013 CL084A 17 08B 19 09B	
XA127	TT3	C3	19B	CL0890	00	=		SET CL08 DATA
XA127	TT3	C3	16B	(39)	01		CL083A CL082A CL081A 33 16B 35 17B 37 18B	
XA128	TDD	KI	29A	CL09BI	00	=		
XA128	TDD	KI		( )	01		CL0990 62 29A	
XA128	TDD	KN	28A	CL09BN	00	=		CL GATED CLOCK APOL
XA128	TDD	KN		( )	01		CLCPAB 60 28A	
XA128	TDD	KP	30B	CL09BP	00	=		
XA128	TDD	KP	30A	(57)	01		SPA016 64 30A	
XA128	TDD	KQ	29B	CL09BQ	00	=		
XA128	TDD	KQ	28B	(55)	01		SPA017 53 28B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA124	TQ2	E2	28A	CL091A	00	=		
XA124	TQ2	E2	30A	(60)	01		DB25C0 CLDBTB 64 30A 62 29A	DB25 TO CL09
XA125	TT3	E1	30A	CL092A	00	=		
XA125	TT3	E1	33A	(64)	01		CLMODB CL0940 CL098P 70 33A 68 32A 66 31A	INCR SET CL09 INCREMENT CL OPOL
XA125	TT3	E2	29B	CL093A	00	=		
XA125	TT3	E2	29A	(55)	01		CL094A CLMODB CL098Q 62 29A 60 28A 53 28B	INCR HOLD CL09
XA122	TT3	E3	33B	CL094A	00	=		
XA122	TT3	E3	30B	(63)	01		CL1040 CL108Q SPA012 57 30B 59 31B 61 32B	LOG PROD CL10 THRU CL14
XA123	TQ2	B4	13B	CL0940	00	=		
XA123	TQ2	B4	11B	(27)	01		SPA013 CL094A 23 11B 25 12B	
XA127	TT3	D1	23A	CL0990	00	=		
XA127	TT3	D1	26A	(50)	01		CL091A CL092A CL093A 56 26A 54 25A 52 24A	SET CL09 DATA
XA128	TDD	LI	38B	CL108I ( )	00 01	=	CL1090 77 38B	
XA128	TDD	LN	39B	CL108N ( )	00 01	=	CLCPAB 79 39B	CL GATED CLOCK APOL
XA128	TDD	LP	37A	CL108P	00	=		
XA128	TDD	LP	37B	(76)	01		SPA018 75 37B	
XA128	TDD	LQ	38A	CL108Q	00	=		
XA128	TDD	LQ	39A	(78)	01		SPA017 80 39A	
XA124	TQ2	E3	30B	CL101A	00	=		
XA124	TQ2	E3	28B	(57)	01		DB26C0 CLDBTB 53 28B 55 29B	DB26 TO CL10
XA125	TT3	F1	36B	CL102A	00	=		
XA125	TT3	F1	39B	(73)	01		CL108P CL1040 CLMODB 79 39B 77 38B 75 37B	INCR SET CL10



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA125	TT3	F2	35B	CL103A	00	=		
XA125	TT3	F2	36A	(74)	01		CLMODB CL104A CL10BQ 71 36A 72 34A 65 34B	INCR HOLD CL10 INCREMENT CL OPOL
XA120	T04	D2	24B	CL104A	00	=		
XA120	T04	D2	23A	(45)	01		CL12BQ CL11BQ CL13BQ CL14BQ 50 23A 48 22A 46 21A 43 23B	LOG PROD CL11 THRU CL14
XA123	TQ2	C1	18A	CL1040	00	=		
XA123	TQ2	C1	20A	(38)	01		CL104A SPA014 42 20A 40 19A	
XA127	TT3	D2	23B	CL1090	00	=		
XA127	TT3	D2	22A	(43)	01		CL102A CL101A CL103A 48 22A 46 21A 41 22B	SET CL10 DATA
				CL11BI	00	=		
XA128	T00	MI	36A	( )	01		CL1190 71 36A	
				CL11BN	00	=		
XA128	T00	MN	34A	( )	01		CLCPAB 72 34A	CL GATED CLOCK APOL
XA128	T00	MP	35A	CL11BP	00	=		
XA128	T00	MP	36B	(69)	01		SPA018 73 36B	
XA128	T00	MQ	35B	CL11BQ	00	=		
XA128	T00	MQ	34B	(74)	01		SPA017 65 34B	
XA124	TQ2	E4	33B	CL111A	00	=		
XA124	TQ2	E4	31B	(63)	01		DB27C0 CL08TB 59 31B 61 32B	DB27 TO CL11
XA122	TT3	B3	13B	CL112A	00	=		
XA122	TT3	B3	10B	(27)	01		CL1140 CL11BP CLMODB 21 10B 23 11B 25 12B	INCR SET CL11
XA122	TT3	C1	17A	CL113A	00	=		
XA122	TT3	C1	20A	(36)	01		CL11BQ CL114A CLMODB 42 20A 40 19A 38 18A	INCR HOLD CL11
XA125	TT3	F3	39A	CL114A	00	=		
XA125	TT3	F3	35A	(80)	01		CL13BQ CL14BQ CL12BQ 69 35A 76 37A 78 38A	LOG PROD CL12 THRU CL14

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	RESISTOR VALUE	FACTOR	COMMENT
			AND	OR					
XA123	TQ2	C2	15A		CL1140	00	=		
XA123	TQ2	C2	17A		(30)	01		CL114A SPA014 36 17A 34 16A	
XA127	TT3	D3	27B		CL1190	00	=		SET CL11 DATA
XA127	TT3	D3	24B		(51)	01		CL112A CL113A CL111A 45 24B 47 25B 49 26B	
XA129	TDD	J1	32A		CL128I	00	=		
XA129	TDD	J1	32A		( )	01		CL1290 68 32A	
XA129	TDD	JN	33A		CL128N	00	=		
XA129	TDD	JN	33A		( )	01		CLCPAB 70 33A	CL GATED CLOCK APOL
XA129	TDD	JP	31B		CL128P	00	=		
XA129	TDD	JP	31A		(59)	01		SPA018 66 31A	
XA129	TDD	JQ	32B		CL128Q	00	=		
XA129	TDD	JQ	33B		(61)	01		SPA019 63 33B	
XA124	TQ2	F1	37B		CL121A	00	=		DB2B TO CL12
XA124	TQ2	F1	39B		(75)	01		CLDBTB DB28C0 79 39B 77 38B	TRANSFER DBL TO CL OPOL
XA122	TT3	C2	15B		CL122A	00	=		INCR SET CL12
XA122	TT3	C2	16A		(31)	01		CL128P CL1240 CLMODB 34 16A 30 15A 29 14B	
XA122	TT3	C3	19B		CL123A	00	=		INCR HOLD CL13
XA122	TT3	C3	16B		(39)	01		CLMODB CL128Q CL124A 33 16B 35 17B 37 18B	INCREMENT CL OPOL
XA125	TT3	E3	33B		CL124A	00	=		LOG PROD CL13.CL14
XA125	TT3	E3	30B		(63)	01		SPA015 CL148Q CL138Q 57 30B 59 31B 61 32B	
XA123	TQ2	C3	16B		CL1240	00	=		
XA123	TQ2	C3	14B		(33)	01		SPA013 CL124A 29 14B 31 15B	
XA127	TT3	E1	30A		CL1290	00	=		SET CL12 DATA
XA127	TT3	E1	33A		(64)	01		CL121A CL123A CL122A 70 33A 68 32A 66 31A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESIGNATOR	FACTOR	COMMENT
XA129	TDD	KI	29A	CL13BI ( )	00 =	01	CL1390 62 29A	
XA129	TDD	KN	28A	CL13BN ( )	00 =	01	CLCPAB 60 28A	CL GATED CLOCK APOL
XA129	TDD	KP	30B	CL13BP (57 )	00 =	01	SPA018 64 30A	
XA129	TDD	KQ	29B	CL13BQ (55 )	00 =	01	SPA019 53 28B	
XA124	TQ2	F2	34A	CL131A (72 )	00 =	01	CLDBYB DB29C0 73 36B 71 36A	DB29 TO CL13 TRANSFER DBL TO CL OPD L
XA122	TT3	D1	23A	CL132A (50 )	00 =	01	CL13BP CL14BQ CLM00B 56 26A 54 25A 52 24A	INCR SET CL13
XA122	TT3	D2	23B	CL133A (43 )	00 =	01	CL13BQ CLM00B CL14BP 48 22A 46 21A 41 22B	INCR HOLD CL13
XA127	TT3	E2	29B	CL1390 (55 )	00 =	01	CL132A CL131A CL133A 62 29A 60 28A 53 28B	SET CL13 DATA
XA129	TDD	LI	38B	CL14BI ( )	00 =	01	CL1490 77 38B	
XA129	TDD	LN	39B	CL14BN ( )	00 =	01	CLCPAB 79 39B	CL GATED CLOCK APOL
XA129	TDD	LP	37A	CL14BP (76 )	00 =	01	SPA018 75 37B	
XA129	TDD	LQ	38A	CL14BQ (78 )	00 =	01	SPA019 80 39A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA124	TQ2	F3	35A	CL141A	00	=		
XA124	TQ2	F3	34B	(69)	01		DB30C0 CLDBTB 65 34B 74 35B	DB30 TO CL14
XA122	TT3	D3	27B	CL142A	00	=		
XA122	TT3	D3	24B	(51)	01		CL14BP CLMODB SPA012 45 24B 47 25B 49 26B	INCR SET CL14
XA127	TT3	E3	33B	CL1490	00	=		
XA127	TT3	E3	30B	(63)	01		CL142A SPA015 CL141A 57 30B 59 31B 61 32B	SET CL14 DATA
XA415	TQ2	E1	31A	CMASPA	00	=		
XA415	TQ2	E1	33A	(66)	01		MMA5PO SPA115 70 33A 68 32A	MA CONTENTS LT 100 OCTAL-A
XA415	TQ2	E2	28A	CMASPO	00	=		
XA415	TQ2	E2	30A	(60)	01		MMA5PA SPA115 64 30A 62 29A	MA CONTENTS LT 100 OCTAL-O
XA248	TS8	A1	05B	CMA190	00	=		
XA248	TS8	A1	07A	(11)	01		C213CA C213EA C213DA C212EA C212DA C205CA C208CA C212CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	AR. CNTL 01 DATA GATE - 0
XA245	TQ2	B1	12A	CMA27A	00	=		
XA245	TQ2	B1	14A	(22)	01		SPA060 CMA270 26 14A 24 13A	AR. CNTL 02 DATA EXPANDER-A
XA244	TT3	B1	11A	CMA270	00	=		
XA244	TT3	B1	14A	(20)	01		C206CA C209CA E203CA 26 14A 24 13A 22 12A	AR. CNTL 02 DATA EXPANDER-O
XA245	TQ2	B2	09A	CMA28A	00	=		
XA245	TQ2	B2	11A	(14)	01		CMA280 SPA060 20 11A 18 10A	AR. CNTL 02/03 DATA GATE - A
XA243	TD4	B1	11B	CMA280	00	=		
XA243	TD4	B1	14A	(23)	01		C208CA C207CA C209EA C204CA 26 14A 24 13A 22 12A 25 12B	AR. CNTL 02/03 DATA GATE - 0
XA248	TS8	B1	11B	CMA290	00	=		
XA248	TS8	B1	14A	(23)	01		C210CA C207DA C211CA C336KA CMA27A CMA28A C203CA C210DA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	AR. CNTL 02 DATA GATE - 0
XA245	TQ2	C1	18A	CMA38A	00	=		
XA245	TQ2	C1	20A	(38)	01		SPA060 CMA380 42 20A 40 19A	AR. CNTL 03 SLOW DATA GATE=A

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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA243	TD4	C1 17B	CMA380	00	=		AR, CNTL 03 SLOW DATA GATE-0
XA243	TD4	C1 20A	(35)	01		C205CA C202CA CMA28A C201CA 42 20A 40 19A 38 18A 37 18B	
XA248	TS8	C1 17B	CMA390	00	=		AR, CNTL 03 DATA GATE - 0
XA248	TS8	C1 20A	(35)	01		C207DA C210CA C213EA CMA38A C213DA C213CA C210DA C211CA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA246	TS8	A1 05B	CMA490	00	=		AR, CNTL 04 DATA GATE - 0
XA246	TS8	A1 07A	(11)	01		C205CA C200CA C210CA C210DA C200ZA SPA061 E200CA C206CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA245	TQ2	E1 31A	CMA58A	00	=		AR, CNTL 05/08 DATA GATE - A
XA245	TQ2	E1 33A	(66)	01		SPA060 CMA580 70 33A 68 32A	
XA243	TD4	E1 31B	CMA580	00	=		((DIE), (CC12)*/DTHL, (ES02)
XA243	TD4	E1 33A	(59)	01		C217CA C223CA C218CA SPA059 70 33A 68 32A 66 31A 61 32B	
XA246	TS8	B1 11B	CMA590	00	=		AR, CNTL 05 DATA GATE - 0
XA246	TS8	B1 14A	(23)	01		C215CA C222CA CMA58A SPA063 SPA062 SPA061 C221CA C225CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA246	TS8	C1 17B	CMA690	00	=		AR, CNTL 06 DATA GATE - 0
XA246	TS8	C1 20A	(35)	01		C219CA C215CA SPA061 C216CA C214HA C218CA C224CA C221AA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA246	TS8	D1 25B	CMA790	00	=		AR, CNTL 07 DATA GATE - 0
XA246	TS8	D1 26A	(47)	01		C219CA C214JA SPA061 C221CA C221AA C217CA C215CA C220CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA246	TS8	E1 31B	CMA890	00	=		AR, CNTL 08 DATA GATE - 0
XA246	TS8	E1 33A	(59)	01		E214CA C214CA C219CA C214SA C211CA C210DA CMA58A C214TA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA247	TS8	C1 17B	CMB090	00	=		AR, CNTL 10 DATA GATE - 0
XA247	TS8	C1 20A	(35)	01		C212CA C228CA C228EA C229CA C213DA SPA061 C229HA C229EA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA247	TS8	D1 25B	CMB190	00	=		AR, CNTL 11 DATA GATE - 0
XA247	TS8	D1 26A	(47)	01		C229FA SPA068 SPA067 SPA066 SPA062 C229HA SPA061 C227CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA247	TS8	E1 31B	CMB290	00	=		AR, CNTL 12 DATA GATE - 0
XA247	TS8	E1 33A	(59)	01		SPA068 SPA067 SPA066 SPA062 C228EA C212CA C228CA C226CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	RELATION	FACTOR	COMMENT
XA247	TS8	F1	37A	CMB390	00	=		
XA247	YS8	F1	39B	(76)	01		SPA066 C214SA C213CA C210CA C207DA C234CA C211CA SPA062 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	AR. CNTL 13 DATA GATE - 0
XA248	TS8	D1	25B	CMB490	00	=		
XA248	YS8	D1	26A	(47)	01		C234CA C207DA C233CA C211CA C232JA C232CA EVO1CA C214SA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	AR. CNTL 14 DATA GATE - 0
XA248	TS8	E1	31B	CMB590	00	=		
XA248	YS8	E1	33A	(59)	01		C211CA C231CA C230CA SPA062 C235CA C233CA C210CA C214SA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	AR. CNTL 15 DATA GATE - 0
XA248	TS8	F1	37A	CMB690	00	=		
XA248	YS8	F1	39B	(76)	01		C238JA C238CA C241CA C242CA C214SA C239CA C211CA E242CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	AR. CNTL 16 DATA GATE - 0
XA247	TS8	A1	05B	CMB790	00	=		
XA247	YS8	A1	07A	(11)	01		E242CA C242CA C241CA C240CA SPA066 SPA062 E237CA C237CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	AR. CNTL 17 DATA GATE - 0
XA247	TS8	B1	11B	CMB890	00	=		
XA247	YS8	B1	14A	(23)	01		C242CA E242CA C236LA E236CA C210DA C210CA C236CA C239CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	AR. CNTL 18 DATA GATE - 0
				CMCLCB	00	=		
XA410	TQ2	C1	18A	( )	01		CMCL3A 38 18A	
XA410	TQ2	C2	15A	( )	02	+	CMCL4A 30 15A	
XA410	TQ2	C3	16B	( )	03	+	CMCLYA 33 16B	CMCLCB BUSS
XA410	TQ2	B4	13B	CMCLMA	00	=		
XA410	YS8	B4	11B	(27)	01		CMCLMO SPA111 23 11B 25 12B	
				CMCLMB	00	=		
XA410	TQ2	D2	21A	( )	01		CMCL5A 46 21A	
XA410	TQ2	D3	24B	( )	02	+	CMCL6A 45 24B	
XA410	TQ2	D4	27B	( )	03	+	CMCL7A 51 27B	
XA406	TQ2	B2	09A	CMCLMO	00	=		
XA406	YS8	B2	11A	(14)	01		UCMOPB J3RESO 20 11A 18 10A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA410	TQ2	F3	35A	CMCLPB ( )	00	=		
					01		CMCL9A 69 35A	
XA410	TQ2	F4	39A	( )	02	+	CMCL8A 80 39A	
				CMCLRB ( )	00	=		
XA410	TQ2	B2	09A	( )	02	+	CMCL1A 14 09A	
XA410	TQ2	B3	10B	( )	03	+	CMCL2A 21 10B	
XA306	TQ2	E3	30B	CMCLWA (57 )	00	=		BLO H-DB
XA306	TQ2	E3	28B	( )	01		CS0FBQ CS02BP 53 28B 55 29B	
XA402	TQ2	F4	39A	CMCLXA (80 )	00	=		
XA402	TQ2	F4	37A	( )	01		CS0EBP CMCLWA 76 37A 78 38A	
XA410	TQ2	C3	16B	CMCLYA (33 )	00	=		CMCLCB BUSS
XA410	TQ2	C3	14B	( )	01		CMCL00 SPA111 29 14B 31 15B	
XA409	TD4	C2	16B	CMCLZA (33 )	00	=		ERROR EXIT INHIBIT MOP REG
XA409	TD4	C2	17A	( )	01		CMCLXA CRO1S0 CR11BP CRO1BQ 36 17A 34 16A 30 15A 31 15B	
XA410	TQ2	B1	12A	CMCL0A (22 )	00	=		CLEAR MOP REGISTER
XA410	TQ2	B1	14A	( )	01		SPA111 CMCL00 26 14A 24 13A	
XA504	TT3	F2	35B	CMCL00 (74 )	00	=		AUCTION IF ACZR
XA504	TT3	F2	36A	( )	01		CMCLZA J3RES0 UCMOPB 71 36A 72 34A 65 34B	
XA410	TQ2	B2	09A	CMCL1A (14 )	00	=		CMCLRB BUSS
XA410	TQ2	B2	11A	( )	01		CMCL00 SPA110 20 11A 18 10A	
XA410	TQ2	B3	10B	CMCL2A (21 )	00	=		CMCLRB BUSS
XA410	TQ2	B3	08B	( )	01		SPA110 CMCL00 17 08B 19 09B	
XA410	TQ2	C1	18A	CMCL3A (38 )	00	=		CMCLCB BUSS
XA410	TQ2	C1	20A	( )	01		SPA111 CMCL00 42 20A 40 19A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA410	TQ2	C2	15A	CMCL4A	00	=		
XA410	TQ2	C2	17A	(30)	01		SPA111 CMCL00 36 17A 34 16A	CMCLCB BUSS
XA410	TQ2	D2	21A	CMCL5A	00	=		
XA410	TQ2	D2	23A	(46)	01		SPA175 CMCL00 50 23A 48 22A	CMCLMB BUSS
XA410	TQ2	D3	24B	CMCL6A	00	=		
XA410	TQ2	D3	22B	(45)	01		SPA175 CMCL00 41 22B 43 23B	CMCLMB BUSS
XA410	TQ2	D4	27B	CMCL7A	00	=		
XA410	TQ2	D4	25B	(51)	01		CMCL00 SPA175 47 25B 49 26B	CMCLMB BUSS
XA410	TQ2	F4	39A	CMCL8A	00	=		
XA410	TQ2	F4	37A	(80)	01		SPI041 CMCL00 76 37A 78 38A	CMCLPB BUSS
XA410	TQ2	F3	35A	CMCL9A	00	=		
XA410	TQ2	F3	34B	(69)	01		CMCL00 SPI041 65 34B 74 35B	CMCLPB BUSS
				CMPCPB	00	=		
XA410	TQ2	E1	31A	( )	01		CMCP3A 66 31A	
XA410	TQ2	E2	28A	( )	02	+	CMCP4A 60 28A	
XA410	TQ2	E3	30B	( )	03	+	CMCP5A 57 30B	
				CMCPPB	00	=		
XA410	TQ2	F1	37B	( )	01		CMCP8A 75 37B	
XA410	TQ2	F2	34A	( )	02	+	CMCP9A 72 34A	
XA429	TD4	F1	37A	CMCPA	00	=		
XA429	TD4	F1	38B	(76)	01		SPA168 CLOCLB SPA150 SPA169 77 38B 78 38A 75 37B 79 39B	
XA410	TQ2	E1	31A	CMCP3A	00	=		
XA410	TQ2	E1	33A	(66)	01		CLOCLB SPA112 70 33A 68 32A	CMCPCB BUSS
XA410	TQ2	E2	28A	CMCP4A	00	=		
XA410	TQ2	E2	30A	(60)	01		CLOCLB SPA112 64 30A 62 29A	CMCPCB BUSS



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CONNECTOR	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA410	TQ2	E3 30B	CMCP5A	00 =			
XA410	TQ2	E3 28B	(57)	01		SPA112 CLOCLB 53 28B 55 29B	CMCPCB BUSS
XA410	TQ2	F1 37B	CMCP8A	00 =			
XA410	TQ2	F1 39B	(75)	01		SPA112 CLOCLB 79 39B 77 38B	CMCPPB BUSS
XA410	TQ2	F2 34A	CMCP9A	00 =			
XA410	TQ2	F2 36B	(72)	01		CLOCLB SPA112 73 36B 71 36A	CMCPPB BUSS
			CMC1BI	00 =			
XA412	TDD	AI 06A	( )	01		CMC190 08 06A	
			CMC1BN	00 =			
XA412	TDD	AN 07A	( )	01		CMCPCB 10 07A	GATED CLOCK- INSTR CON MOPS
XA412	TDD	AP 05B	CMC1BP	00 =			
XA412	TDD	AP 05A	(11)	01		CMCLCB 06 05A	CLEAR MOP REG- C SECTI ON
XA412	TDD	AQ 06B	CMC1BQ	00 =			
XA412	TDD	AQ 07B	(13)	01		SPA113 15 07B	
XA408	TS8	A1 05B	CMC190	00 =			
XA408	TS8	A1 07A	(11)	01		C337DA C335CA C336CA C337CA C336HA C303CA C311CA C307CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	C1 DATA IN
			CMC2BI	00 =			
XA412	TDD	BI 03B	( )	01		CMC290 05 03B	
			CMC2BN	00 =			
XA412	TDD	BN 02B	( )	01		CMCPCB 01 02B	GATED CLOCK- INSTR CON MOPS
XA412	TDD	BP 04B	CMC2BP	00 =			
XA412	TDD	BP 04A	(09)	01		CMCLCB 04 04A	CLEAR MOP REG- C SECTI ON
XA412	TDD	BQ 03A	CMC2BQ	00 =			
XA412	TDD	BQ 02A	(07)	01		UCMC2B 03 02A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA408	TS8	B1	11B	CMC290	00	=		
XA408	TS8	B1	14A	(23)	01		C336CA C337CA C337DA C302CA SPA109 C335CA C336HA C342CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	C2 DATA IN
				CMC3BI	00	=		
XA412	TDD	CI	13A	( )	01		CMC390 24 13A	
				CMC3BN	00	=		
XA412	TDD	CN	14A	( )	01		CMCPCB 26 14A	GATED CLOCK- INSTR COM MOPS
XA412	TDD	CP	11B	CMC3BP	00	=		
XA412	TDD	CP	12A	(23)	01		CMCLCB 22 12A	CLEAR MOP REG- C SECTI ON
XA412	TDD	CQ	12B	CMC3BQ	00	=		
XA412	TDD	CQ	13B	(25)	01		SPA113 27 13B	
XA408	TS8	C1	17B	CMC390	00	=		
XA408	TS8	C1	20A	(35)	01		C337CA C311CA C340CA C339CA C307CA C302CA C337DA E339CA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	C3 DATA IN
				CMC4BI	00	=		
XA412	TDD	DI	10A	( )	01		CMC490 18 10A	
				CMC4BN	00	=		
XA412	TDD	DN	09A	( )	01		CMCPCB 14 09A	GATED CLOCK- INSTR COM MOPS
XA412	TDD	DP	10B	CMC4BP	00	=		
XA412	TDD	DP	11A	(21)	01		CMCLCB 20 11A	CLEAR MOP REG- C SECTI ON
XA412	TDD	DQ	09B	CMC4BQ	00	=		
XA412	TDD	DQ	08B	(19)	01		SPA113 17 08B	
XA408	TS8	D1	25B	CMC490	00	=		
XA408	TS8	D1	26A	(47)	01		C342CA C336HA C336CA C340CA C337DA C311CA C337CA SPA106 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	C4 DATA IN
				CMC5BI	00	=		
XA412	TDD	E1	19A	( )	01		CMC590 40 19A	

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CMC5BN

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA412	TDD	EN	20A	CMC5BN ( )	00	H	CMCPCB 42 20A	GATED CLOCK- INSTR COM MOPS
XA412	TDD	EP	17B	CMC5BP ( )	00	=		
XA412	TDD	EP	18A	CMC5BQ (35 )	01		CMCLCB 38 18A	CLEAR MOP REG- C SECTI ON
XA412	TDD	EQ	18B	CMC5BQ ( )	00	=		
XA412	TDD	EQ	19B	CMC5BQ (37 )	01		SPA114 39 19B	
XA409	TD4	B1	11B	CMC590 ( )	00	=		C5 DATA IN
XA409	TD4	B1	14A	CMC590 (23 )	01		C308CA C308PA C310CA C306CA 26 14A 24 13A 22 12A 25 12B	
XA412	TDD	FI	16A	CMC6BI ( )	00	=	CMC690 34 16A	
XA412	TDD	FN	15A	CMC6BN ( )	00	=	CMCPCB 30 15A	GATED CLOCK- INSTR COM MOPS
XA412	TDD	FP	16B	CMC6BP ( )	00	=		
XA412	TDD	FP	17A	CMC6BP (33 )	01		CMCLCB 36 17A	CLEAR MOP REG- C SECTI ON
XA412	TDD	FQ	15B	CMC6BQ ( )	00	=		
XA412	TDD	FQ	14B	CMC6BQ (31 )	01		SPA113 29 14B	
XA409	TD4	B2	10B	CMC690 ( )	00	=		C6 DATA IN
XA409	TD4	B2	11A	CMC690 (21 )	01		C306CA SPA111 SPA110 CG67CA 20 11A 18 10A 14 09A 19 09B	
XA411	TDD	AI	06A	CMC7BI ( )	00	=	CMC790 08 06A	
XA411	TDD	AN	07A	CMC7BN ( )	00	=	CMCPCB 10 07A	GATED CLOCK- INSTR COM MOPS
XA411	TDD	AP	05B	CMC7BP ( )	00	=		
XA411	TDD	AP	05A	CMC7BP (11 )	01		CMCLCB 06 05A	CLEAR MOP REG- C SECTI ON

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA411	TDD	AQ	06B	CMC7BQ	00	=		
XA411	YDD	AQ	07B	(13)	01		SPA113 15 07B	
XA408	TS8	E1	31B	CMC790	00	=		
XA408	TS8	E1	33A	(59)	01		C7 DATA IN C304CA SPA111 SPA110 C309DA C309EA C308CA C308PA SPA109 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
				CMC8BI	00	=		
XA411	TDD	BI	03B	( )	01		CMC890 05 03B	
				CMC8BN	00	=		
XA411	TDD	BN	02B	( )	01		CMCPCB 01 02B	GATED CLOCK- INSTR CON MOPS
XA411	TDD	BP	04B	CMC8BP	00	=		
XA411	YDD	BP	04A	(09)	01		CMCLCB 04 04A	CLEAR MOP REG- C SECTI ON
XA411	TDD	BQ	03A	CMC8BQ	00	=		
XA411	YDD	BQ	02A	(07)	01		SPA112 03 02A	
XA408	TS8	F1	37A	CMC890	00	=		
XA408	TS8	F1	39B	(76)	01		C8 DATA IN SPA113 SPA111 SPA110 SPA109 C304CA CF02CA C310CA SPA112 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
				CMC9BI	00	=		
XA411	TDD	CI	13A	( )	01		CMC990 24 13A	
				CMC9BN	00	=		
XA411	TDD	CN	14A	( )	01		CMCPCB 26 14A	GATED CLOCK- INSTR CON MOPS
XA411	TDD	CP	11B	CMC9BP	00	=		
XA411	YDD	CP	12A	(23)	01		CMCLMA 22 12A	CLEAR MOP REG- C SECTI ON
XA411	TDD	CQ	12B	CMC9BQ	00	=		
XA411	YDD	CQ	13B	(25)	01		SPA113 27 13B	
XA405	TS8	A1	05B	CMC990	00	=		
XA405	TS8	A1	07A	(11)	01		C9 DATA IN CG37CA CG51CA C342CA C341DA C341EA CG62CA C341GA EV07CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 04B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM DESIGNATOR	FACTOR	COMMENT
				CMD1BI	00 =		
XA411	TDD	DI	10A	( )	01	CMD190 18 10A	
				CMD1BN	00 =		
XA411	TDD	DN	09A	( )	01	CMPCB 14 09A	GATED CLOCK- INSTR CON MOPS
XA411	TDD	DP	10B	CMD1BP	00 =		
XA411	TDD	DP	11A	(21 )	01	CMCLCB 20 11A	CLEAR MOP REG- C SECTI ON
XA411	TDD	DQ	09B	CMD1BQ	00 =		
XA411	TDD	DQ	08B	(19 )	01	SPA113 17 08B	
XA410	TQ2	A1	05A	CMD1P0	00 =		UNLOAD CMD1B
XA410	TQ2	A1	07A	(06 )	01	CMD1BQ SPA110 10 07A 08 06A	
XA405	TS8	B1	11B	CMD190	00 =		D1 DATA IN
XA405	TS8	B1	14A	(23 )	01	C355CA C354CA C356CA C353CA C350CA C349CA CG70CA C352CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
				CMD2BI	00 =		
XA411	TDD	E1	19A	( )	01	CMD290 40 19A	
				CMD2BN	00 =		
XA411	TDD	EN	20A	( )	01	CMPCB 42 20A	GATED CLOCK- INSTR CON MOPS
XA411	TDD	EP	17B	CMD2BP	00 =		
XA411	TDD	EP	18A	(35 )	01	CMCLCB 38 18A	CLEAR MOP REG- C SECTI ON
XA411	TDD	EQ	18B	CMD2BQ	00 =		
XA411	TDD	EQ	19B	(37 )	01	SPA113 39 19B	
XA410	TQ2	A2	02B	CMD2Q0	00 =		UNLOAD CMD2B
XA410	TQ2	A2	04A	(01 )	01	CMD2BP SPA110 04 04A 05 03B	
XA405	TS8	C1	17B	CMD290	00 =		D2 DATA IN
XA405	TS8	C1	20A	(35 )	01	C355CA SPA107 SPA106 C347EA C347DA C353CA C356CA C354CA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR										COMMENT
				CMD3BI	00	=											
XA411	TDD	FI	16A	( )	01		CMD390 34 16A										
				CMD3BN	00	=											
XA411	TDD	FN	15A	( )	01		CMCPCB 30 15A										GATED CLOCK- INSTR CON MOPS
XA411	TDD	FP	16B	CMD3BP	00	=											
XA411	TDD	FP	17A	(33 )	01		CMCLCB 36 17A										CLEAR MOP REG- C SECTI ON
XA411	TDD	FQ	15B	CMD3BQ	00	=											
XA411	TDD	FQ	14B	(31 )	01		UCMD3B 29 14B										
XA405	TS8	DI	25B	CMD390	00	=											
XA405	TS8	DI	26A	(47 )	01		D3 DATA IN C352CA SPA108 SPA107 SPA106 C355CA CG70CA E360CA C356CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B										
				CMD4BI	00	=											
XA411	TDD	GI	25A	( )	01		CMD490 54 25A										
				CMD4BN	00	=											
XA411	TDD	GN	26A	( )	01		CMCPCB 56 26A										GATED CLOCK- INSTR CON MOPS
XA411	TDD	GP	25B	CMD4BP	00	=											
XA411	TDD	GP	24A	(47 )	01		CMCLCB 52 24A										CLEAR MOP REG- C SECTI ON
XA411	TDD	GQ	26B	CMD4BQ	00	=											
XA411	TDD	GQ	27B	(49 )	01		SPA113 51 27B										
XA405	TS8	EI	31B	CMD490	00	=											
XA405	TS8	EI	33A	(59 )	01		D4 DATA IN SPA107 SPA106 CG60CA C354CA E360CA C352CA C356CA C350CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B										
				CMD5BI	00	=											
XA411	TDD	HI	22A	( )	01		CMD590 48 22A										
				CMD5BN	00	=											
XA411	TDD	HN	21A	( )	01		CMCPCB 46 21A										GATED CLOCK- INSTR CON MOPS

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CMD5BP

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA411	TDD	HP	24B	CMD5BP	00	=		
XA411	TDD	HP	23A	(45)	01		CMCLCB 50 23A	CLEAR MOP REG- C SECTI ON
XA411	TDD	HQ	23B	CMD5BQ	00	=		
XA411	TDD	HQ	22B	(43)	01		UCMD5B 41 22B	
XA405	TS8	F1	37A	CMD590	00	=		D5 DATA IN
XA405	TS8	F1	39B	(76)	01		SPA110 SPA109 SPA108 SPA107 ET17CA C344CA E361CA C345CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
				CMD6BI	00	=		
XA411	TDD	JI	32A	( )	01		CMD690 68 32A	
				CMD6BN	00	=		
XA411	TDD	JN	33A	( )	01		CMCPCB 70 33A	GATED CLOCK- INSTR COM MOPS
XA411	TDD	JP	31B	CMD6BP	00	=		
XA411	TDD	JP	31A	(59)	01		CMCLCB 66 31A	CLEAR MOP REG- C SECTI ON
XA411	TDD	JQ	32B	CMD6BQ	00	=		
XA411	TDD	JQ	33B	(61)	01		UCMD6B 63 33B	
XA404	TS8	A1	05B	CMD690	00	=		D6 DATA IN
XA404	TS8	A1	07A	(11)	01		ET06CA SPA139 C358CA C343CA SPA105 C359CA C345CA E361CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
				CMD7BI	00	=		
XA411	TDD	KI	29A	( )	01		CMD790 62 29A	
				CMD7BN	00	=		
XA411	TDD	KN	28A	( )	01		CMCPCB 60 28A	GATED CLOCK- INSTR COM MOPS
XA411	TDD	KP	30B	CMD7BP	00	=		
XA411	TDD	KP	30A	(57)	01		CMCLCB 64 30A	CLEAR MOP REG- C SECTI ON
XA411	TDD	KQ	29B	CMD7BQ	00	=		
XA411	TDD	KQ	28B	(55)	01		UCMD7B 53 28B	

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CMD790

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CONNECTOR	CIRCUIT POINT	GROUP	TEST POINTS	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND OR					
XA409	TD4	A1	05B	CMD790	00	=		
XA409	TD4	A1	07A	(11)	01		ET17CA SPA110 C357CA C343CA 10 07A 08 06A 06 05A 13 06B	D7 DATA IN
				CMD88I	00	=		
XA411	YDD	LI	38B	( )	01		CMD890 77 38B	
				CMD88N	00	=		
XA411	YDD	LN	39B	( )	01		CMCPCB 79 39B	GATED CLOCK- INSTR COM MOPS
XA411	TDD	LP	37A	CMD88P	00	=		
XA411	TDD	LP	37B	(76)	01		CMCLCB 75 37B	CLEAR MOP REG- C SECTI ON
XA411	TDD	LQ	38A	CMD88Q	00	=		
XA411	YDD	LQ	39A	(78)	01		UCMD88 80 39A	
XA404	TS8	B1	11B	CMD890	00	=		
XA404	TS8	B1	14A	(23)	01		SPA139 C345CA SPA106 SPA105 C338CA ET06CA C358CA SPA107 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	D8 DATA IN
				CMD98I	00	=		
XA411	YDD	MI	36A	( )	01		CMD990 71 36A	
				CMD98N	00	=		
XA411	YDD	MN	34A	( )	01		CMCPCB 72 34A	GATED CLOCK- INSTR COM MOPS
XA411	TDD	MP	35A	CMD98P	00	=		
XA411	TDD	MP	36B	(69)	01		CMCLCB 73 36B	CLEAR MOP REG- C SECTI ON
XA411	TDD	MQ	35B	CMD98Q	00	=		
XA411	YDD	MQ	34B	(74)	01		UCMD98 65 34B	
XA404	TS8	C1	17B	CMD990	00	=		
XA404	TS8	C1	20A	(35)	01		SPA107 SPA106 EU15CA EU06CA C346CA C346DA ET15CA ET10CA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	D9 DATA IN
XA445	TQ2	A1	05A	CMG08A	00	=		
XA445	TQ2	A1	07A	(06)	01		SPA137 CMG080 10 07A 08 06A	CMG0/CMG3 DATA EXPANDER-A



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CMG080

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA446	TT3	A1	04A	CMG080	00	=	CMG0/CMG3	DATA EXPANDER-0
XA446	TT3	A1	07A	(04)	01		C460CA C457CA E457CA 10 07A 08 06A 06 05A	
XA347	TS8	A1	05B	CMG090	00	=	GR CNTL.	00 DATA INPUT GATE
XA347	TS8	A1	07A	(11)	01		CMG08A C458CA C459CA C462CA C463CA SPA138 C214TA C461CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA445	TQ2	A2	02B	CMG190	00	=	GR CNTL.	01 DATA INPUT GATE
XA445	TQ2	A2	04A	(01)	01		C461CA C455CA 04 04A 05 03B	
XA347	TS8	B1	11B	CMG290	00	=	GR CNTL.	02 DATA INPUT GATE
XA347	TS8	B1	14A	(23)	01		C463CA C452CA C453CA C238JA C462CA C459CA C456CA C460CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA445	TQ2	A3	04B	CMG38A	00	=	GR CNTL.	03 DATA IN XPND-A
XA445	TQ2	A3	02A	(09)	01		SPA137 CMG380 03 02A 07 03A	
XA447	TD4	A1	05B	CMG380	00	=	GR CNTL.	03 DATA IN XPND-0
XA447	TD4	A1	07A	(11)	01		C451CA C456CA E450CA C450CA 10 07A 08 06A 06 05A 13 06B	
XA347	TS8	C1	17B	CMG390	00	=	GR CNTL.	03 DATA INPUT GATE
XA347	TS8	C1	20A	(35)	01		CMG38A C454CA C450PA SPA138 CMG08A C463CA C458CA C214TA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA445	TQ2	A4	07B	CMG48A	00	=	CM G4 (GA	00) H/16 INPUT - A
XA445	TQ2	A4	05B	(15)	01		SPA138 CMG480 11 05B 13 06B	
XA444	TQ2	A1	05A	CMG480	00	=	CM G4 (GA	00) H/16 INPUT - 0
XA444	TQ2	A1	07A	(06)	01		C407DA C400CA 10 07A 08 06A	
XA347	TS8	D1	25B	CMG490	00	=	CM G4 (GA	00) DATA INPUT - 0
XA347	TS8	D1	26A	(47)	01		C420CA C410CA CMG48A C415CA C430CA C400EA C400DA C407EA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA444	TQ2	B2	09A	CMG58A	00	=	CM G5 (GA	01) H/S/16 INPUT-A
XA444	TQ2	B2	11A	(14)	01		SPA137 CMG580 20 11A 18 10A	
XA446	TT3	A2	03A	CMG580	00	=	CM G5 (GA	01) H/S/16 INPUT-0
XA446	TT3	A2	03B	(07)	01		C401CA C407DA C426CA 05 03B 01 02B 03 02A	

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CMG590

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR		COMMENT						
XA347	TS8	E1	31B	CMG590	00	=									
XA347	TS8	E1	33A	(59)	01		C407EA 70 33A	C401DA 68 32A	C401EA 66 31A	C431CA 64 30A	CMG58A 62 29A	C416CA 60 28A	C411CA 55 29B	C421CA 61 32B	CM G5 (GA 01) DATA INPUT - 0
XA445	TQ2	B2	09A	CMG68A	00	=									
XA445	TQ2	B2	11A	(14)	01		SPA138 20 11A	CMG680 18 10A							CM G6 (GA 02) H/S/16 INPUT-A
XA446	TT3	A3	07B	CMG680	00	=									
XA446	TT3	A3	04B	(15)	01		C407DA 09 04B	C402CA 11 05B	C427CA 13 06B						CM G6 (GA 02) H/S/16 INPUT-0
XA347	TS8	F1	37A	CMG690	00	=									
XA347	TS8	F1	39B	(76)	01		C407EA 79 39B	C417CA 77 38B	C432CA 75 37B	C402EA 73 36B	C412CA 71 36A	CMG68A 72 34A	C402DA 74 35B	C422CA 78 38A	CM G6 (GA 02) DATA INPUT - 0
XA445	TQ2	B3	10B	CMG78A	00	=									
XA445	TQ2	B3	08B	(21)	01		CMG780 17 08B	SPA138 19 09B							CM G7 (GA 03) H/S/1 INPUT-A
XA447	TD4	A2	04B	CMG780	00	=									
XA447	TD4	A2	04A	(09)	01		C428CA 04 04A	C403CA 05 03B	C406CA 01 02B	E406CA 07 03A					CM G7 (GA 03) H/S/1 INPUT-0
XA442	TS8	A1	05B	CMG790	00	=									
XA442	TS8	A1	07A	(11)	01		C413CA 10 07A	C423CA 08 06A	C406HA 06 05A	C403EA 04 04A	CMG78A 05 03B	C433CA 01 02B	C403DA 07 03A	C418CA 13 06B	CM G7 (GA 03) DATA INPUT - 0
XA548	TS8	A1	05B	CMM090	00	=									
XA548	TS8	A1	07A	(11)	01		C506DA 10 07A	C506QA 08 06A	SPA166 06 05A	ET06CA 04 04A	C507CA 05 03B	C507FA 01 02B	C506CA 07 03A	C504CA 13 06B	
XA546	TD4	A1	05B	CMM190	00	=									
XA546	TD4	A1	07A	(11)	01		SPA166 10 07A	C503DA 08 06A	C508DA 06 05A	C504CA 13 06B					
XA548	TS8	B1	11B	CMM290	00	=									
XA548	TS8	B1	14A	(23)	01		SPA166 26 14A	C505QA 24 13A	C506QA 22 12A	C505CA 20 11A	C508DA 18 10A	C504CA 14 09A	C506DA 19 09B	C506CA 25 12B	
XA548	TS8	C1	17B	CMM390	00	=									
XA548	TS8	C1	20A	(35)	01		C527DA 42 20A	C528DA 40 19A	SPA168 38 18A	SPA167 36 17A	SPA166 34 16A	CG42CA 30 15A	CG62CA 31 15B	CG66CA 37 18B	DTR PLO207YA2025
XA548	TS8	D1	25B	CMM490	00	=									
XA548	TS8	D1	26A	(47)	01		C527HA 56 26A	C527JA 54 25A	C527KA 52 24A	SPA166 50 23A	C527DA 48 22A	CG71CA 46 21A	CG66CA 43 23B	C527FA 49 24B	INH MB0215YA0619

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CMM590

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR								COMMENT	
XA548	TS8	E1	31B	CMM590	00	=										
XA548	TS8	E1	33A	(159)	01		C517CA	C515CA	C509CA	C510CA	C513AA	C512AA	C514CA	C516AA		
							70 33A	68 32A	66 31A	64 30A	62 29A	60 28A	55 29B	61 32B		
XA548	TS8	F1	37A	CMM690	00	=										
XA548	TS8	F1	39B	(176)	01		C526DA	C523CA	C524DA	C517CA	C515CA	C516AA	C514CA	C520CA		
							79 39B	77 38B	75 37B	73 36B	71 36A	72 34A	74 35B	78 38A		
XA547	TS8	A1	05B	CMM790	00	=										
XA547	TS8	A1	07A	(11)	01		C520CA	C523CA	C512AA	C521CA	C513AA	C515CA	C525CA	C514CA		
							10 07A	08 06A	06 05A	04 04A	05 03B	01 02B	07 03A	13 06B		
XA547	TS8	B1	11B	CMM890	00	=										
XA547	TS8	B1	14A	(23)	01		C514CA	C524DA	C510CA	C516AA	C522CA	C512AA	C521CA	C520CA		
							26 14A	24 13A	22 12A	20 11A	18 10A	14 09A	19 09B	25 12B		
XA546	TD4	A2	04B	CMN090	00	=										
XA546	TD4	A2	04A	(09)	01		C502DA	EUI7CA	C529CA	C511DA						
							04 04A	05 03B	01 02B	07 03A						
XA547	TS8	C1	17B	CMN190	00	=										
XA547	TS8	C1	20A	(35)	01		C511DA	C519CA	C518CA	SPA167	SPA166	E518CA	EUI7CA	ET02CA		
							42 20A	40 19A	38 18A	36 17A	34 16A	30 15A	31 15B	37 18B		
XA547	TS8	D1	25B	CMN290	00	=										
XA547	TS8	D1	26A	(47)	01		SPA168	C501DA	SPA167	SPA166	ET02CA	C511DA	C519CA	C502DA		
							56 26A	54 25A	52 24A	50 23A	48 22A	46 21A	43 23B	49 26B		
				CMP1BI	00	=										
XA523	TDD	A1	05A	( )	01		CMPI90									
							08 06A									
				CMP1BN	00	=										
XA523	TDD	AN	07A	( )	01		CMCPPB									GATED CLOCK- P AND T M OPS
							10 07A									
XA523	TDD	AP	05B	CMP1BP	00	=										
XA523	TDD	AP	05A	(11)	01		CMCLPB									CLEAR MOP REG- P AND T SEC
							06 05A									
XA523	TDD	AQ	06B	CMP1BQ	00	=										
XA523	TDD	AQ	07B	(13)	01		SPA153									
							15 07B									
XA410	TQ2	A3	04B	CMP190	00	=										
XA410	TQ2	A3	02A	(09)	01		C612AA	C626CA								
							03 02A	07 03A								

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
				CMP2BI	00	#		
XA523	TDD	BI	03B	( )	01		CMP290 05 03B	
				CMP2BN	00	=		
XA523	TDD	BN	02B	( )	01		CMCPPB 01 02B	GATED CLOCK- P AND T M OPS
XA523	TDD	BP	04B	CMP2BP	00	=		
XA523	TDD	BP	04A	(09 )	01		CMCLPB 04 04A	CLEAR MOP REG- P AND T SEC
XA523	TDD	BQ	03A	CMP2BQ	00	=		
XA523	TDD	BQ	02A	(07 )	01		SPA153 03 02A	
XA407	TD4	E1	31B	CMP290	00	=		
XA407	TD4	E1	33A	(59 )	01		C614JA C614CA C615CA C626CA 70 33A 68 32A 66 31A 61 32B	
				CMP3BI	00	=		
XA523	TDD	CI	13A	( )	01		CMP390 24 13A	
				CMP3BN	00	=		
XA523	TDD	CN	14A	( )	01		CMCPPB 26 14A	GATED CLOCK- P AND T M OPS
XA523	TDD	CP	11B	CMP3BP	00	=		
XA523	TDD	CP	12A	(23 )	01		CMCLPB 22 12A	CLEAR MOP REG- P AND T SEC
XA523	TDD	CQ	12B	CMP3BQ	00	=		
XA523	TDD	CQ	13B	(25 )	01		SPA153 27 13B	
XA407	TD4	E2	30B	CMP390	00	=		
XA407	TD4	E2	30A	(57 )	01		C615CA SPA109 C613AA C626CA 64 30A 62 29A 60 28A 55 29B	
				CMP4BI	00	=		
XA412	TDD	LI	38B	( )	01		CMP490 77 38B	
				CMP4BN	00	=		
XA412	TDD	LN	39B	( )	01		CMCPPB 79 39B	GATED CLOCK- P AND T M OPS

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	REGIS. FACTOR	FACTOR	COMMENT
XA412	TDD	LP	37A	CMP48P	00	=		
XA412	TDD	LP	37B	(76)	01		CMCLPB 75 37B	CLEAR MOP REG- P AND T SEC
XA412	TDD	LQ	38A	CMP48Q	00	=		
XA412	TDD	LQ	39A	(78)	01		SPA114 80 39A	
XA409	TD4	F1	37A	CMP490	00	=		
XA409	TD4	FI	39B	(76)	01		C622DA C621CA C616CA C617DA 79 39B 77 38B 75 37B 78 38A	
				CMP58I	00	=		
XA412	TDD	MI	36A	( )	01		CMP590 71 36A	
				CMP58N	00	=		
XA412	TDD	MN	34A	( )	01		CMCPPB 72 34A	GATED CLOCK- P AND T M OPS
XA412	TDD	MP	35A	CMP58P	00	=		
XA412	TDD	MP	36B	(69)	01		CMCLPB 73 36B	CLEAR MOP REG- P AND T SEC
XA412	TDD	MQ	35B	CMP58Q	00	=		
XA412	TDD	MQ	34B	(74)	01		SPA114 65 34B	
XA409	TD4	F2	35A	CMP590	00	=		
XA409	TD4	F2	36B	(69)	01		C617DA C606CA C609DA C616CA 73 36B 71 36A 72 34A 74 35B	
				CMP68I	00	=		
XA412	TDD	J1	32A	( )	01		CMP690 68 32A	
				CMP68N	00	=		
XA412	TDD	JN	33A	( )	01		CMCPPB 70 33A	GATED CLOCK- P AND T M OPS
XA412	TDD	JP	31B	CMP68P	00	=		
XA412	TDD	JP	31A	(59)	01		CMCLPB 66 31A	CLEAR MOP REG- P AND T SEC
XA412	TDD	JQ	32B	CMP68Q	00	=		
XA412	TDD	JQ	33B	(61)	01		UCMP6B 63 33B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA409	TD4	E1	31B	CMP690	00 =			
XA409	TD4	E1	33A	(59)	01		C609DA C622DA C605CA C617DA 70 33A 68 32A 66 31A 61 32B	
				CMP78I	00 =			
XA412	TDD	KI	29A	( )	01		CMP790 62 29A	
				CMP78N	00 =			
XA412	TDD	KN	28A	( )	01		CMCPPB 60 28A	GATED CLOCK- P AND T M OPS
XA412	TDD	KP	30B	CMP78P	00 =			
XA412	TDD	KP	30A	(57)	01		CMCLPB 64 30A	CLEAR MOP REG- P AND T SEC
XA412	TDD	KQ	29B	CMP78Q	00 =			
XA412	TDD	KQ	28B	(55)	01		SPA114 53 28B	
XA409	TD4	E2	30B	CMP790	00 =			
XA409	TD4	E2	30A	(57)	01		C618CA C623CA C624DA C625DA 64 30A 62 29A 60 28A 55 29B	
				CMP88I	00 =			
XA412	TDD	GI	25A	( )	01		CMP890 54 25A	
				CMP88N	00 =			
XA412	TDD	GN	26A	( )	01		CMCPPB 56 26A	GATED CLOCK- P AND T M OPS
XA412	TDD	GP	25B	CMP88P	00 =			
XA412	TDD	GP	24A	(47)	01		CMCLPB 52 24A	CLEAR MOP REG- P AND T SEC
XA412	TDD	GQ	26B	CMP88Q	00 =			
XA412	TDD	GQ	27B	(49)	01		SPA114 51 27B	
XA409	TD4	D1	25B	CMP890	00 =			
XA409	TD4	D1	26A	(47)	01		C618CA C625DA C611CA C608CA 56 26A 54 25A 52 24A 49 26B	
				CMP98I	00 =			
XA412	TDD	HI	22A	( )	01		CMP990 48 22A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA412	TDD	HN	21A	CMP9BN ( )	00	=	CMCPPB 46 21A	GATED CLOCK- P AND T M OPS
XA412	TDD	HP	24B	CMP9BP (45 )	00	=		
XA412	TDD	HP	23A	(45 )	01	=	CMCLPB 50 23A	CLEAR MOP REG- P AND T SEC
XA412	TDD	HQ	23B	CMP9BQ (43 )	00	=		
XA412	TDD	HQ	22B	(43 )	01	=	UCMP9B 41 22B	
XA409	TD4	D2	24B	CMP990 (45 )	00	=		
XA409	TD4	D2	23A	(45 )	01	=	C618CA C624DA C607CA C611CA 50 23A 48 22A 46 21A 43 23B	
				CMQ1BI ( )	00	=		
XA523	TDD	DI	10A	( )	01	=	CMQ190 18 10A	
				CMQ1BN ( )	00	=		
XA523	TDD	DN	09A	( )	01	=	CMCPPB 14 09A	GATED CLOCK- P AND T M OPS
XA523	TDD	DP	10B	CMQ1BP (21 )	00	=		
XA523	TDD	DP	11A	(21 )	01	=	CMCLPB 20 11A	CLEAR MOP REG- P AND T SEC
XA523	TDD	DQ	09B	CMQ1BQ (19 )	00	=		
XA523	TDD	DQ	08B	(19 )	01	=	SPA153 17 08B	
XA409	TD4	C1	17B	CMQ190 (35 )	00	=		
XA409	TD4	C1	20A	(35 )	01	=	C604CA C603CA C601CA C602CA 42 20A 40 19A 38 18A 37 18B	
				CMQ2BI ( )	00	=		
XA523	TDD	EI	19A	( )	01	=	CMQ290 40 19A	
				CMQ2BN ( )	00	=		
XA523	TDD	EN	20A	( )	01	=	CMCPPB 42 20A	GATED CLOCK- P AND T M OPS
XA523	TDD	EP	17B	CMQ2BP (35 )	00	=		
XA523	TDD	EP	18A	(35 )	01	=	CMCLPB 38 18A	CLEAR MOP REG- P AND T SEC

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA523	TDD	EQ	18B	CMQ28Q	00	=		
XA523	TDD	EQ	19B	(37)	01		SPA153 39 19B	
XA407	TD4	F1	37A	CMQ290	00	=		
XA407	TD4	F1	39B	(76)	01		SPA109 C602CA C620DA C619DA 79 39B 77 38B 75 37B 78 38A	
				CMQ3BI	00	=		
XA523	TDD	FI	16A	( )	01		CMQ390 34 16A	
				CMQ3BN	00	=		
XA523	TDD	FN	15A	( )	01		CMCPPB 30 15A	GATED CLOCK- P AND T M OPS
XA523	TDD	FP	16B	CMQ3BP	00	=		
XA523	TDD	FP	17A	(33)	01		CMCLPB 36 17A	CLEAR MOP REG- P AND T SEC
XA523	TDD	FQ	15B	CMQ3BQ	00	=		
XA523	TDD	FQ	14B	(31)	01		UCMQ3B 29 14B	
XA407	TD4	F2	35A	CMQ390	00	=		
XA407	TD4	F2	36B	(69)	01		SPA109 C604CA C610CA C620DA 73 36B 71 36A 72 34A 74 35B	
				CMT1BI	00	=		
XA432	TDD	CI	13A	( )	01		CMT190 24 13A	
				CMT1BN	00	=		
XA432	TDD	CN	14A	( )	01		CMCPTA 26 14A	GATED CLOCK- P AND T M OPS
XA432	TDD	CP	11B	CMT1BP	00	=		
XA432	TDD	CP	12A	(23)	01		CMCLPB 22 12A	CLEAR MOP REG- P AND T SEC
XA432	TDD	CQ	12B	CMT1BQ	00	=		
XA432	TDD	CQ	13B	(25)	01		SPA132 27 13B	
XA435	TQ2	A1	05A	CMT190	00	=		
XA435	TQ2	A1	07A	(06)	01		SPA133 C701CA 10 07A 08 06A	T1 DATA IN



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERN	DEFINITION	FACTOR	COMMENT
XA432	TDD	DI	10A	CMT2BI ( )	00 01	=	CMT290 18 10A	
XA432	TDD	DN	09A	CMT2BN ( )	00 01	=	CMCPYA 14 09A	GATED CLOCK- P AND T M OPS
XA432	TDD	DP	10B	CMT2BP (21 )	00 01	=	CMCLPB 20 11A	CLEAR MOP REG- P AND T SEC
XA432	TDD	DQ	09B	CMT2BQ (19 )	00 01	=	SPA131 17 08B	
XA435	TQ2	A2	02B	CMT290 (01 )	00 01	=		T2 DATA IN
XA435	TQ2	A2	04A				C702CA SPA132 04 04A 05 03B	
XA432	TDD	EI	19A	CMT3BI ( )	00 01	=	CMT390 40 19A	
XA432	TDD	EN	20A	CMT3BN ( )	00 01	=	CMCPYA 42 20A	GATED CLOCK- P AND T M OPS
XA432	TDD	EP	17B	CMT3BP (35 )	00 01	=	CMCLCB 38 18A	CLEAR MOP REG- P AND T SEC
XA432	TDD	EQ	18B	CMT3BQ (37 )	00 01	=	SPA132 39 19B	
XA435	TQ2	A3	04B	CMT390 (09 )	00 01	=		T3 DATA IN
XA435	TQ2	A3	02A				C704CA C703CA 03 02A 07 03A	
XA432	TDD	FI	16A	CMT4BI ( )	00 01	=	CMT490 34 16A	
XA432	TDD	FN	15A	CMT4BN ( )	00 01	=	CMCPYA 30 15A	GATED CLOCK- P AND T M OPS

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA432	TDD	FP	16B	CMT48P	00	=		
XA432	TDD	FP	17A	(33)	01		CMCLCB 36 17A	CLEAR MOP REG- P AND T SEC
XA432	TDD	FQ	15B	CMT48Q	00	=		
XA432	TDD	FQ	14B	(31)	01		UCMT4B 29 14B	
XA436	TSB	A1	05B	CMT490	00	=		T4 DATA IN
XA436	TSB	A1	07A	(11)	01		SPA136 SPA135 E705DA C702CA SPA133 C705CA C703CA C701CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA406	TQ2	F1	37B	CMOD0A	00	=		MODE 0-APOL
XA406	TQ2	F1	39B	(75)	01		CC07BP CC08BP 79 39B 77 38B	
XA406	TQ2	F2	34A	CMOD3A	00	=		MODE 3- APOL
XA406	TQ2	F2	36B	(72)	01		CC08BQ CC07BQ 73 36B 71 36A	
XA410	TQ2	D1	24A	CMOD30	00	=		MODE 3- DPOL
XA410	TQ2	D1	26A	(52)	01		CMOD3A SPA112 56 26A 54 25A	
XA407	TD4	D1	25B	CMONAO	00	=		MODE ZERO NOT ALLOWED FOR
XA407	TD4	D1	26A	(47)	01		CMONFA CMONCA CMONEA CMONDA 56 26A 54 25A 52 24A 49 26B	
XA406	TQ2	C1	18A	CMONCA	00	=		
XA406	TQ2	C1	20A	(38)	01		SPA108 CMONCO 42 20A 40 19A	
XA407	TD4	C1	17B	CMONCO	00	=		RAF/RAH/RSE/RSHTQR
XA407	TD4	C1	20A	(35)	01		CX17CA CX16CA CX33CA SPI041 42 20A 40 19A 38 18A 37 18B	
XA406	TQ2	C2	15A	CMONDA	00	=		
XA406	TQ2	C2	17A	(30)	01		SPA108 CMONDO 36 17A 34 16A	
XA407	TD4	C2	16B	CMONDO	00	=		SBT/RBT/RTE/RW/REF/REH/RNF/
XA407	TD4	C2	17A	(33)	01		CX36CA CX37CA CX34CA CX35CA 36 17A 34 16A 30 15A 31 15B	
XA406	TQ2	C3	16B	CMONEA	00	=		
XA406	TQ2	C3	14B	(33)	01		CMONED SPA108 29 14B 31 15B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA407	TD4	B1	11B	CMONE0	00	=		
XA407	TD4	B1	14A	(23)	01		CX47CA CX46CA CX45CA C144CA 26 14A 24 13A 22 12A 25 12B	SMH/SDU/SDL/SDF/SDH/MZF/MZH
XA406	TQ2	C4	19B	CMONFA	00	=		
XA406	TQ2	C4	17B	(39)	01		CMONFO SPA108 35 17B 37 18B	
XA407	TD4	B2	10B	CMONFO	00	=		
XA407	TD4	B2	11A	(21)	01		CX57CA CX67CA C166CA CX56CA 20 11A 18 10A 14 09A 19 09B	EXE/EXH/SSE/MTH/TSI/TSZ/TSO
				CNCPAB	00	=		
XA526	TT3	A1	04A	( )	01		CNCP0A 04 04A	
XA526	TT3	A2	03A	( )	02	+	CNCP1A 07 03A	
XA526	TT3	A3	07B	( )	03	+	CNCP2A 15 07B	
XA526	TT3	A1	04A	CNCP0A	00	=		
XA526	TT3	A1	07A	(04)	01		MC119A SPA155 CLOCLB 10 07A 08 06A 06 05A	CNCPAB BUSS
XA526	TT3	A2	03A	CNCP1A	00	=		
XA526	TT3	A2	03B	(07)	01		CLOCLB SPA155 MC119A 05 03B 01 02B 03 02A	CNCPAB BUSS
XA526	TT3	A3	07B	CNCP2A	00	=		
XA526	TT3	A3	04B	(15)	01		CLOCLB MC119A SPA155 09 04B 11 05B 13 06B	CNCPAB BUSS
XA531	TQ2	A1	05A	CNOBLO	00	=		
XA531	TQ2	A1	07A	(06)	01		SPA158 CLDGRA 10 07A 08 06A	GA=0,GR TO DB
XA531	TQ2	A2	02B	CNDBMO	00	=		
XA531	TQ2	A2	04A	(01)	01		CLDGRA SPA158 04 04A 05 03B	GA=0,GR TO DB UNLOAD
XA527	TQ2	B1	12A	CNDBNO	00	=		
XA527	TQ2	B1	14A	(22)	01		SPA156 CLDGRA 26 14A 24 13A	GA=0,GR TO DB UNLOAD
XA527	TQ2	B2	09A	CNDBPO	00	=		
XA527	TQ2	B2	11A	(14)	01		CNDBSA CLDGNA 20 11A 18 10A	GA=0,GRU TO DB UNLOAD

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA529	TQ2	A2	02B	CNDBQ0	00	N		
XA529	TQ2	A2	04A	(01)	01		CNDBSA CLDGNA 04 04A 05 03B	
XA527	TQ2	A2	02B	CNDBR0	00	=		GA=0,GRU TO DBL UNLOAD
XA527	TQ2	A2	04A	(01)	01		CLDGNA CNDBSA 04 04A 05 03B	
XA528	TD4	A1	05B	CNDBSA	00	=		BLO CM0015DB1631- TO CIS DISP
XA528	TD4	A1	07A	(11)	01		CMDBBP CMD6BQ CMD5BQ CMD7BP 10 07A 08 06A 06 05A 13 06B	
XA529	TQ2	A3	04B	CNDBT0	00	=		GA=0,DB TO GR/DBU TO GRU
XA529	TQ2	A3	02A	(09)	01		CLDGWA CLDGTA 03 02A 07 03A	
XA531	TQ2	A3	04B	CNDBU0	00	=		GA=0,DB TO GR/DBU TO GRU
XA531	TQ2	A3	02A	(09)	01		CLDGWA CLDGTA 03 02A 07 03A	
XA529	TQ2	A4	07B	CNDBV0	00	=		GA=0,DB1 TO GRU
XA529	TQ2	A4	05B	(15)	01		CLDGVA SPA157 11 05B 13 06B	
XA531	TQ2	A4	07B	CNDBW0	00	=		GA=0,DB1 TO GRU
XA531	TQ2	A4	05B	(15)	01		SPA158 CLDGVA 11 05B 13 06B	
XA529	TQ2	B3	10B	CNDBXA	00	=		
XA529	TQ2	B3	08B	(21)	01		SPA157 CNDBX0 17 08B 19 09B	
XA530	TT3	B1	11A	CNDBX0	00	=		XFER DB TO CN
XA530	TT3	B1	14A	(20)	01		CLDGWA CLDGVA CLDGTA 26 14A 24 13A 22 12A	
XA529	TQ2	B4	13B	CNDBYA	00	=		
XA529	TQ2	B4	11B	(27)	01		CNDBX0 SPA157 23 11B 25 12B	
XA530	TT3	B3	13B	CNOUE0	00	=		IOU/CPU ERROR TO IO
XA530	TT3	B3	10B	(27)	01		CRO1BP SPA175 SPA169 21 10B 23 11B 25 12B	
XA524	TDD	AI	06A	CNOOBI	00	=		
				( )	01		CN0090 08 06A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
				CN00BN	00	=		
XA524	TDD	AN	07A	( )	01		CNCPAB 10 07A	CN REG CLOCK APOL
XA524	TDD	AP	05B	CN00BP	00	=		
XA524	TDD	AP	05A	(11 )	01		SPA155 06 05A	
XA524	TDD	AQ	06B	CN00BQ	00	=		
XA524	TDD	AQ	07B	(13 )	01		J2RESO 15 07B	
XA531	TQ2	B1	12A	CN001A	00	=		DB00 TO CN00
XA531	TQ2	B1	14A	(22 )	01		CNDBTO DB00C0 26 14A 24 13A	
XA531	TQ2	B2	09A	CN002A	00	=		DB16 TO CN00
XA531	TQ2	B2	11A	(14 )	01		CNDBVO DB16C0 20 11A 18 10A	
XA531	TQ2	B3	10B	CN003A	00	=		HOLD CN00
XA531	TQ2	B3	08B	(21 )	01		CN00BQ CNDBXA 17 08B 19 09B	
XA530	TT3	C1	17A	CN0090	00	=		SET CN00 DATA
XA530	TT3	C1	20A	(36 )	01		CN001A CN003A CN002A 42 20A 40 19A 38 18A	
				CN01BI	00	=		
XA524	TDD	B1	03B	( )	01		CN0190 05 03B	
				CN01BN	00	=		
XA524	TDD	BN	02B	( )	01		CNCPAB 01 02B	CN REG CLOCK APOL
XA524	TDD	BP	04B	CN01BP	00	=		
XA524	TDD	BP	04A	(09 )	01		SPA155 04 04A	
XA524	TDD	BQ	03A	CN01BQ	00	=		STR PROG ONLY-PROG INT L CHG
XA524	TDD	BQ	02A	(07 )	01		J2RESO 03 02A	
XA525	TD4	F2	35A	CN01SA	00	=		SET CN01- LC
XA525	TD4	F2	36B	(69 )	01		CMC7BP CMC5BP CMC6BQ CMC8BP 73 36B 71 36A 72 34A 74 35B	

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CONNECTOR	CIRCUIT TYPE	GRD	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA531	TQ2	B4	13B	CN011A	00	=		
XA531	TQ2	B4	11B	(27)	01	=	DB01C0 CNDBT0 23 11B 25 12B	DB01 TO CN01
XA531	TQ2	C1	18A	CN012A	00	=		
XA531	TQ2	C1	20A	(38)	01	=	CNDBV0 DB17C0 42 20A 40 19A	DB17 TO CN01
XA531	TQ2	C2	15A	CN013A	00	=		
XA531	TQ2	C2	17A	(30)	01	=	CNDBXA CN01BQ 36 17A 34 16A	HOLD CN01
XA528	TD4	B1	11B	CN0190	00	=		
XA528	TD4	B1	14A	(23)	01	=	CN012A CN013A CN011A CN015A 26 14A 24 13A 22 12A 25 12B	SET CN01 DATA
				CN02BI	00	=		
XA524	TDD	CI	13A	( )	01	=	CN0290 24 13A	
				CN02BN	00	=		
XA524	TDD	CN	14A	( )	01	=	CNCPAB 26 14A	CN REG CLOCK APOL
XA524	TDD	CP	11B	CN02BP	00	=		
XA524	TDD	CP	12A	(23)	01	=	SPI045 22 12A	
XA524	TDD	CQ	12B	CN02BQ	00	=		
XA524	TDD	CQ	13B	(25)	01	=	SPA154 27 13B	
XA531	TQ2	C3	16B	CN021A	00	=		
XA531	TQ2	C3	14B	(33)	01	=	DB02C0 CNDBT0 29 14B 31 15B	DB02 TO CN02
XA531	TQ2	C4	19B	CN022A	00	=		
XA531	TQ2	C4	17B	(39)	01	=	DB18C0 CNDBV0 35 17B 37 18B	DB18 TO CN02
XA530	TT3	C2	15B	CN023A	00	=		
XA530	TT3	C2	16A	(31)	01	=	SPA158 CNDBXA CN02BQ 34 16A 30 15A 29 14B	HOLD CN02
XA528	TD4	B2	10B	CN0290	00	=		
XA528	TD4	B2	11A	(21)	01	=	SPA169 CN021A CN023A CN022A 20 11A 18 10A 14 09A 19 09B	SET CN02 DATA

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA524	TDD	DI	10A	CN03BI ( )	00 =	01	CN0390 18 10A	
XA524	TDD	DN	09A	CN038N ( )	00 =	01	CNCPAB 14 09A	CN REG CLOCK APOL
XA524	TDD	DP	10B	CN03BP ( )	00 =	01		
XA524	TDD	DP	11A	(21 )	00 =	01	SPI047 20 11A	
XA524	TDD	DQ	09B	CN038Q ( )	00 =	01		
XA524	TDD	DQ	08B	(19 )	00 =	01	SPA154 17 08B	
XA531	TQ2	D1	24A	CN031A ( )	00 =	01		DB03 TO CN03
XA531	TQ2	D1	26A	(52 )	00 =	01	CNDBT0 DB03C0 56 26A 54 25A	
XA531	TQ2	D2	21A	CN032A ( )	00 =	01		DB19 TO CN03
XA531	TQ2	D2	23A	(46 )	00 =	01	DB19C0 CNDBV0 50 23A 48 22A	
XA526	TT3	C3	19B	CN033A ( )	00 =	01		HOLD CN03
XA526	TT3	C3	16B	(39 )	00 =	01	CNDBXA CN03BQ SPA156 33 16B 35 17B 37 18B	
XA528	TD4	C1	17B	CN0390 ( )	00 =	01		SET CN03 DATA
XA528	TD4	C1	20A	(35 )	00 =	01	CN031A SPA169 CN032A CN033A 42 20A 40 19A 38 18A 37 18B	
XA524	TDD	EI	19A	CN048I ( )	00 =	01	CN0490 40 19A	
XA524	TDD	EN	20A	CN048N ( )	00 =	01	CNCPAB 42 20A	CN REG CLOCK APOL
XA524	TDD	EP	17B	CN048P ( )	00 =	01		
XA524	TDD	EP	18A	(35 )	00 =	01	SPI044 38 18A	
XA524	TDD	EQ	18B	CN048Q ( )	00 =	01		
XA524	TDD	EQ	19B	(37 )	00 =	01	SPA154 39 19B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
			AND	OR					
XA531	TQ2	D3	24B		CN041A	00	=		
XA531	TQ2	D3	22B		(45)	01		CNDBT0 DB04C0 41 22B 43 23B	DB04 TO CN04
XA531	TQ2	D4	27B		CN042A	00	=		
XA531	TQ2	D4	25B		(51)	01		DB20C0 CNDBV0 47 25B 49 26B	DB20 TO CN04
XA530	TT3	D1	23A		CN043A	00	=		
XA530	TT3	D1	26A		(50)	01		CNDBXA SPA158 CN04BQ 56 26A 54 25A 52 24A	HOLD CN04
XA528	TD4	C2	16B		CN0490	00	=		
XA528	TD4	C2	17A		(33)	01		SPA169 CN042A CN041A CN043A 36 17A 34 16A 30 15A 31 15B	SET CN04 DATA
					CN05BI	00	=		
XA524	TDD	FI	16A		( )	01		CN0590 34 16A	
					CN05BN	00	=		
XA524	TDD	FN	15A		( )	01		CNCPAB 30 15A	CN REG CLOCK APOL
XA524	TDD	FP	16B		CN05BP	00	=		
XA524	TDD	FP	17A		(33)	01		SPI045 36 17A	
XA524	TDD	FQ	15B		CN05BQ	00	=		
XA524	TDD	FQ	14B		(31)	01		SPA154 29 14B	
XA531	TQ2	E1	31A		CN051A	00	=		
XA531	TQ2	E1	33A		(66)	01		CNDBT0 DB05C0 70 33A 68 32A	DB05 TO CN05
XA531	TQ2	E2	28A		CN052A	00	=		
XA531	TQ2	E2	30A		(60)	01		CNDBV0 DB21C0 64 30A 62 29A	DB21 TO CN05
XA530	TT3	D2	23B		CN053A	00	=		
XA530	TT3	D2	22A		(43)	01		CNDBXA SPA158 CN05BQ 48 22A 46 21A 41 22B	HOLD CN05
XA528	TD4	D1	25B		CN0590	00	=		
XA528	TD4	D1	26A		(47)	01		SPA169 CN051A CN052A CN053A 56 26A 54 25A 52 24A 49 26B	SET CN05 DATA



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESIG-NATOR	FACTOR	COMMENT
XA524	TDD	GI	25A	CN06BI ( )	00 01	=	CN0690 54 25A	
XA524	TDD	GN	26A	CN06BN ( )	00 01	=	CNCFAB 56 26A	CN REG CLOCK APOL
XA524	TDD	GP	25B	CN06BP ( )	00	=		
XA524	TDD	GP	24A	(47 )	01		SPI044 52 24A	
XA524	TDD	GQ	26B	CN06BQ ( )	00	=		
XA524	TDD	GQ	27B	(49 )	01		SPA154 51 27B	
XA528	TD4	D2	24B	CN06DA ( )	00	=		SET/RST CN06
XA528	TD4	D2	23A	(45 )	01		CMC4BP CMC1BP CMC2BQ CMC3BQ 50 23A 48 22A 46 21A 43 23B	
XA529	TQ2	D1	24A	CN06D0 ( )	00	=		
XA529	TQ2	D1	26A	(52 )	01		SPA158 CN06DA 56 26A 54 25A	
XA531	TQ2	E3	30B	CN061A ( )	00	=		DB06 TO CN06
XA531	TQ2	E3	28B	(57 )	01		DB06C0 CN08T0 53 28B 55 29B	
XA531	TQ2	E4	33B	CN062A ( )	00	=		DB22 TO CN06
XA531	TQ2	E4	31B	(63 )	01		DB22C0 CN08V0 59 31B 61 32B	
XA530	TT3	D3	27B	CN063A ( )	00	=		HOLD CN06
XA530	TT3	D3	24B	(51 )	01		CN08XA CN06BQ CN06DA 45 24B 47 25B 49 26B	
XA531	TQ2	F1	37B	CN064A ( )	00	=		SET CN06 IF NO MEM ACCEPTANCE
XA531	TQ2	F1	39B	(75 )	01		CN06D0 MACPTA 79 39B 77 38B	
XA528	TD4	E1	31B	CN0690 ( )	00	=		
XA528	TD4	E1	33A	(59 )	01		CN064A CN062A CN061A CN063A 70 33A 68 32A 66 31A 61 32B	
XA524	TDD	HI	22A	CN07BI ( )	00 01	=	CN0790 48 22A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
				CN07BN	00	=		
XA524	TDD	HN	21A	( )	01		CNCPAB 46 21A	CN REG CLOCK APOL
XA524	TDD	HP	24B	CN07BP	00	=		
XA524	TDD	HP	23A	(45 )	01		SPI045 50 23A	
XA524	TDD	HQ	23B	CN07BQ	00	=		
XA524	TDD	HQ	22B	(43 )	01		SPA154 41 22B	
XA531	TQ2	F2	34A	CN071A	00	=		
XA531	TQ2	F2	36B	(72 )	01		DB07C0 CNDBT0 73 36B 71 36A	DB07 TO CN07
XA531	TQ2	F3	35A	CN072A	00	=		
XA531	TQ2	F3	34B	(69 )	01		CNDBV0 DB23C0 65 34B 74 35B	DB23 TO CN07
XA530	TT3	E1	30A	CN073A	00	=		
XA530	TT3	E1	33A	(64 )	01		CN07BQ CMP2BP CNDBXA 70 33A 68 32A 66 31A	HOLD CN07
XA531	TQ2	F4	39A	CN074A	00	=		
XA531	TQ2	F4	37A	(80 )	01		PQ06D0 SPA15B 76 37A 78 38A	PV=TV/MV/SV SET CN07 DATA
XA528	TD4	E2	30B	CN0790	00	=		
XA528	TD4	E2	30A	(57 )	01		CN072A CN071A CN074A CN073A 64 30A 62 29A 60 28A 55 29B	SET CN07 DATA
				CN088I	00	=		
XA524	TDD	JI	32A	( )	01		CN0890 68 32A	
				CN088N	00	=		
XA524	TDD	JN	33A	( )	01		CNCPAB 70 33A	CN REG CLOCK APOL
XA524	TDD	JP	31B	CN08BP	00	=		
XA524	TDD	JP	31A	(59 )	01		J3RESD 66 31A	
XA524	TDD	JQ	32B	CN08BQ	00	=		
XA524	TDD	JQ	33B	(61 )	01		CN084A 63 33B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA528	TD4	F1	37A	CN08DA	00	=		
XA528	TD4	F1	39B	(76)	01	=	CMC4BP CMC1BQ CMC3BP CMC2BP 79 39B 77 38B 75 37B 78 38A	SET/RST CN08
XA529	TQ2	D2	21A	CN08D0	00	=		
XA529	TQ2	D2	23A	(46)	01	=	CN08DA SPA157 50 23A 48 22A	
XA529	TQ2	D3	24B	CN081A	00	=		
XA529	TQ2	D3	22B	(45)	01	=	DB08C0 CN08U0 41 22B 43 23B	DB08 TO CN08
XA529	TQ2	D4	27B	CN082A	00	=		
XA529	TQ2	D4	25B	(51)	01	=	DB24C0 CN08W0 47 25B 49 26B	DB24 TO CN08
XA530	TT3	E2	29B	CN083A	00	=		
XA530	TT3	E2	29A	(55)	01	=	CN08YA C303CA CN08BQ 62 29A 60 28A 53 28B	HOLD CN08
XA530	TT3	E3	33B	CN084A	00	=		
XA530	TT3	E3	30B	(63)	01	=	CN08D0 JACKC0 JIPERO 57 30B 59 31B 61 32B	INPUT PARITY ERROR
XA528	TD4	F2	35A	CN0890	00	=		
XA528	TD4	F2	36B	(69)	01	=	SPA175 CN082A CN083A CN081A 73 36B 71 36A 72 34A 74 35B	SET CN08 DATA
XA524	TDD	KI	29A	CN09BI	00	=		
XA524	TDD	KI	29A	( )	01	=	CN0990 62 29A	
XA524	TDD	KN	28A	CN09BN	00	=		
XA524	TDD	KN	28A	( )	01	=	CNCPAB 60 28A	CN REG CLOCK APOL
XA524	TDD	KP	30B	CN09BP	00	=		
XA524	TDD	KP	30A	(57)	01	=	SPI045 64 30A	
XA524	TDD	KQ	29B	CN09BQ	00	=		
XA524	TDD	KQ	28B	(55)	01	=	SPA155 53 28B	
XA529	TQ2	E1	31A	CN091A	00	=		
XA529	TQ2	E1	33A	(66)	01	=	CN08U0 DB09C0 70 33A 68 32A	DB09 TO CN09

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
			AND	OR					
XA529	TQ2	E2	28A		CN092A	00	=		
XA529	TQ2	E2	30A		(60)	01	=	CNDBW0 DB25C0 64 30A 62 29A	DB25 TO CN09
XA530	TT3	F1	36B		CN093A	00	=		
XA530	TT3	F1	39B		(73)	01	=	CN09BQ CMP1BP CNDBYA 79 39B 77 38B 75 37B	HOLD CN09
XA532	TS8	E1	31B		CN0990	00	=		
XA532	TS8	E1	33A		(59)	01	=	CN093A SPA159 CN092A CN091A SPA169 SPA168 PQ002A PQ001A 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	SET CN09 DATA
					CN10BI	00	=		
XA524	TDD	LI	38B		( )	01	=	CN1090 77 38B	
					CN10BN	00	=		
XA524	TDD	LN	39B		( )	01	=	CNCPAB 79 39B	CN REG CLOCK APOL
XA524	TDD	LP	37A		CN10BP	00	=		
XA524	TDD	LP	37B		(76)	01	=	J3RESB 75 37B	
XA524	TDD	LQ	38A		CN10BQ	00	=		
XA524	TDD	LQ	39A		(78)	01	=	CN104A 80 39A	
XA525	TD4	A1	05B		CN10DA	00	=		
XA525	TD4	A1	07A		(11)	01	=	CMC6BP CMC5BP CMC7BQ CMC8BQ 10 07A 08 06A 06 05A 13 06B	SET/RST CN10
XA529	TQ2	E3	30B		CN10D0	00	=		
XA529	TQ2	E3	28B		(57)	01	=	CN10DA SPA158 53 28B 55 29B	
XA529	TQ2	E4	33B		CN101A	00	=		
XA529	TQ2	E4	31B		(63)	01	=	DB10C0 CNDBU0 59 31B 61 32B	DB10 TO CN10
XA529	TQ2	F1	37B		CN102A	00	=		
XA529	TQ2	F1	39B		(75)	01	=	CNDBW0 DB26C0 79 39B 77 38B	DB26 TO CN10
XA530	TT3	F2	35B		CN103A	00	=		
XA530	TT3	F2	36A		(74)	01	=	CNDBYA C304CA CN10BQ 71 36A 72 34A 65 34B	HOLD CN10

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA530	TT3	F3	39A	CN104A	00	=		
XA530	TT3	F3	35A	(80)	01		JACKCO JITTAO CN1000 69 35A 76 37A 78 38A	SET CN10 IF TDT0 JACK
XA525	TD4	A2	04B	CN1090	00	=		
XA525	TD4	A2	04A	(09)	01		CN102A CN103A SPA175 CN101A 04 04A 05 03B 01 02B 07 03A	SET CN10 DATA
				CN118I	00	=		
XA524	TDD	MI	36A	( )	01		CN1190 71 36A	
				CN118N	00	=		
XA524	TDD	MN	34A	( )	01		CNCPAB 72 34A	CN REG CLOCK APOL
XA524	TDD	MP	35A	CN118P	00	=		
XA524	TDD	MP	36B	(69)	01		SPI044 73 36B	
XA524	TDD	MQ	35B	CN118Q	00	=		
XA524	TDD	MQ	34B	(74)	01		SPA155 65 34B	
XA525	TD4	B1	11B	CN115A	00	=		
XA525	TD4	B1	14A	(23)	01		CMC5BP CMC7BP CMC8BQ CMC6BP 26 14A 24 13A 22 12A 25 12B	SET CN11
XA527	TQ2	C2	15A	CN1150	00	=		
XA527	TQ2	C2	17A	(30)	01		SPA157 CN115A 36 17A 34 16A	
XA529	TQ2	F2	34A	CN111A	00	=		
XA529	TQ2	F2	36B	(72)	01		DB11CO CNDBUO 73 36B 71 36A	DB11 TO CN11
XA529	TQ2	F3	35A	CN112A	00	=		
XA529	TQ2	F3	34B	(69)	01		CNDBWO DB27CO 65 34B 74 35B	DB27 TO CN11
XA527	TQ2	F4	39A	CN113A	00	=		
XA527	TQ2	F4	37A	(80)	01		CNDBYA CN1180 76 37A 78 38A	HOLD CN11
XA529	TQ2	A1	05A	CN114A	00	=		
XA529	TQ2	A1	07A	(06)	01		CN1150 CTRINO 10 07A 08 06A	SET CN11 IN FETCH IF TRAP

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA525	TD4	B2	10B	CN1190	00	=		SET CN11 DATA
XA525	TD4	B2	11A	(21)	01		CN113A CN112A CN111A CN114A 20 11A 18 10A 14 09A 19 09B	
				CN12BI	00	=		
XA523	TDD	GI	25A	( )	01		CN1290 54 25A	
				CN12BN	00	=		
XA523	TDD	GN	26A	( )	01		CNCPAB 56 26A	CN REG CLOCK APOL
XA523	TDD	GP	25B	CN12BP	00	=		
XA523	TDD	GP	24A	(47)	01		SPI045 52 24A	
XA523	TDD	GQ	26B	CN12BQ	00	=		
XA523	TDD	GQ	27B	(49)	01		SPA153 51 27B	
XA525	TD4	C1	17B	CN12CA	00	=		CLE CN1215
XA525	TD4	C1	20A	(35)	01		CMC1BQ CMC3BQ CMC4BP CMC2BP 42 20A 40 19A 38 18A 37 18B	
XA527	TQ2	C3	16B	CN12DA	00	=		ACZR*-ADZR* APOL
XA527	TQ2	C3	14B	(33)	01		ACZRCA ADZRCA 29 14B 31 15B	
XA527	TQ2	C4	19B	CN12EA	00	=		AC00-AQ00* APOL
XA527	TQ2	C4	17B	(39)	01		AC00BQ AQ00BP 35 17B 37 18B	
XA527	TQ2	D1	24A	CN12FA	00	=		AC00*-AQ00 APOL
XA527	TQ2	D1	26A	(52)	01		AQ00BQ AC00BP 56 26A 54 25A	
XA526	TT3	B1	11A	CN12G0	00	=		(AC00=AQ00)*/(ACZR*-ADZR*)
XA526	TT3	B1	14A	(20)	01		CN12FA CN12EA CN12DA 26 14A 24 13A 22 12A	
XA529	TQ2	C1	18A	CN12SA	00	=		SET CN12
XA529	TQ2	C1	20A	(38)	01		CMC6BQ CMC5BQ 42 20A 40 19A	
XA527	TQ2	A1	05A	CN12S0	00	=		
XA527	TQ2	A1	07A	(06)	01		CN12SA SPA156 10 07A 08 06A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA529	TQ2	C2	15A	CN121A	00	=		
XA529	TQ2	C2	17A	(30)	01		CNDBU0 DBI2C0 36 17A 34 16A	DB12 TO CN12
XA529	TQ2	C3	16B	CN122A	00	=		
XA529	TQ2	C3	14B	(33)	01		DB28C0 CNDBW0 29 14B 31 15B	DB28 TO CN12
XA526	TT3	B2	09B	CN123A	00	=		
XA526	TT3	B2	10A	(19)	01		CN12CA CNDBYA CN12BQ 18 10A 14 09A 17 08B	HOLD CN12
XA526	TT3	B3	13B	CN124A	00	=		
XA526	TT3	B3	10B	(27)	01		CQC110 AKCBBQ CN12S0 21 10B 23 11B 25 12B	SET CN12 DUAL BY AKCB
XA525	TD4	C2	16B	CN125A	00	=		
XA525	TD4	C2	17A	(33)	01		CN12G0 CN12S0 CX14C0 CN13BP 36 17A 34 16A 30 15A 31 15B	SET CN12 DUAL BY CN13*
XA526	TT3	C1	17A	CN126A	00	=		
XA526	TT3	C1	20A	(36)	01		AYHXCO CN12S0 C157C0 42 20A 40 19A 38 18A	SET CN12 DUAL BY AYHX
XA532	TS8	A1	05B	CN1290	00	=		
XA532	TS8	A1	07A	(11)	01		CN126A CN122A CN121A CN124A SPA159 SPA158 CN123A CN125A 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	SET CN12 DATA
XA523	TDD	J1	32A	CN13BI	00	=		
XA523	TDD	J1		( )	01		CN1390 68 32A	
XA523	TDD	JN	33A	CN13BN	00	=		
XA523	TDD	JN		( )	01		CNCPAB 70 33A	CN REG CLOCK APOL
XA523	TDD	JP	31B	CN13BP	00	=		
XA523	TDD	JP	31A	(59)	01		SPA155 66 31A	
XA523	TDD	JQ	32B	CN13BQ	00	=		
XA523	TDD	JQ	33B	(61)	01		SPA154 63 33B	
XA527	TQ2	A3	04B	CN13DA	00	=		
XA527	TQ2	A3	02A	(09)	01		AY00BQ AYSEBQ 03 02A 07 03A	AYSE AY00 APOL

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND OR					
XA527	TQ2	A4	07B	CN13EA	00	=		
XA527	TQ2	A4	05B	(15)	01		AY00BP AY5EAP 11 05B 13 06B	AY5E*.AY00*.AP01
XA529	TQ2	C4	19B	CN13FA	00	=		
XA529	TQ2	C4	17B	(39)	01		AQ00BQ AL32BQ 35 17B 37 18B	AQ00.AL32
XA527	TQ2	E1	31A	CN13GA	00	=		
XA527	TQ2	E1	33A	(66)	01		AL32BQ AKDMBQ 70 33A 68 32A	AKDM.AL32
XA526	TT3	C2	15B	CN13HA	00	=		
XA526	TT3	C2	16A	(31)	01		AKDMBP AL32BP AQ00BP 34 16A 30 15A 29 14B	AQ00*.AL32*.AKDM*
XA530	TT3	A3	07B	CN13JO	00	=		
XA530	TT3	A3	04B	(15)	01		CN13HA CN13GA CN13FA 09 04B 11 05B 13 06B	DIVIDE SET OF EQUAL
XA527	TQ2	B3	10B	CN13PO	00	=		
XA527	TQ2	B3	08B	(21)	01		CN13BQ SPA156 17 08B 19 09B	CN13BP UNLOAD
XA529	TQ2	B1	12A	CN13SA	00	=		
XA529	TQ2	B1	14A	(22)	01		CMC5BQ CMC7BQ 26 14A 24 13A	SET CN13
XA527	TQ2	E3	30B	CN13SO	00	=		
XA527	TQ2	E3	28B	(57)	01		CN13SA SPA157 53 28B 55 29B	
XA525	TD4	D1	25B	CN13TA	00	=		
XA525	TD4	D1	26A	(47)	01		CMC8BP CMC7BQ CMC5BP CMC6BP 56 26A 54 25A 52 24A 49 26B	SET CN13
XA527	TQ2	B4	13B	CN13TO	00	=		
XA527	TQ2	B4	11B	(27)	01		SPA156 CN13TA 23 11B 25 12B	SET CN13 LAE/LAH IN ES02
XA527	TQ2	C1	18A	CN131A	00	=		
XA527	TQ2	C1	20A	(38)	01		CNDBUO DB13CO 42 20A 40 19A	DB13 TO CN13
XA527	TQ2	E4	33B	CN132A	00	=		
XA527	TQ2	E4	31B	(63)	01		CNDBWO DB29CO 59 31B 61 32B	DB29 TO CN13



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA526	TT3	D1	23A	CN133A	00	=		
XA526	TT3	D1	26A	(50)	01		CN13BQ CNDBYA CN12CA 56 26A 54 25A 52 24A	HOLD CN13
XA526	TT3	D2	23B	CN134A	00	=		
XA526	TT3	D2	22A	(43)	01		AD5XB4 CQC140 CN1350 48 22A 46 21A 41 22B	SET CN13 QUAL BY (ADSE=AD00)*
XA525	TD4	D2	24B	CN135A	00	=		
XA525	TD4	D2	23A	(45)	01		CN1350 CN13EA CN13DA CQC150 50 23A 48 22A 46 21A 43 23B	SET CN13 QUAL BY (AYSE=AY00)*
XA526	TT3	D3	27B	CN136A	00	=		
XA526	TT3	D3	24B	(51)	01		CX15C0 CN13J0 CN13T0 45 24B 47 25B 49 26B	SET CN13 QUAL BY (AQ00-A132)/
XA526	TT3	E1	30A	CN137A	00	=		
XA526	TT3	E1	33A	(64)	01		CN13T0 AD5XB4 CX42C0 70 33A 68 32A 66 31A	SET CN13 QUAL BY (ADSE=AD00)*
XA530	TT3	A1	04A	CN138A	00	=		
XA530	TT3	A1	07A	(04)	01		CN1350 AD5EB4 CQC160 10 07A 08 06A 06 05A	
XA532	TS8	B1	11B	CN1390	00	=		
XA532	TS8	B1	14A	(23)	01		CN136A CN138A CN132A CN134A CN137A CN131A CN135A CN133A 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	SET CN13 DATA
				CN14BI	00	=		
XA523	TDD	KI	29A	( )	01		CN1490 62 29A	
				CN14BN	00	=		
XA523	TDD	KN	28A	( )	01		CNCPAB 60 28A	CN REG CLOCK APOL
XA523	TDD	KP	30B	CN14BP	00	=		
XA523	TDD	KP	30A	(57)	01		SPI046 64 30A	
XA523	TDD	KQ	29B	CN14BQ	00	=		
XA523	TDD	KQ	28B	(55)	01		SPA154 53 28B	
XA529	TQ2	B2	09A	CN14SA	00	=		
XA529	TQ2	B2	11A	(14)	01		CMC58Q CMC8BQ 20 11A 18 10A	SET CN14

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
XA527	TQ2	F2	34A	CN1450	00	=		
XA527	TQ2	F2	36B	(72)	01		SPA157 CN14SA 73 36B 71 36A	
XA527	TQ2	F3	35A	CN141A	00	=		DB14 TO CN14
XA527	TQ2	F3	34B	(69)	01		CNDBUO DB14C0 65 34B 74 35B	
XA529	TQ2	F4	39A	CN142A	00	=		DB30 TO CN14
XA529	TQ2	F4	37A	(80)	01		CNDBW0 DB30C0 76 37A 78 38A	
XA526	TT3	E2	29B	CN143A	00	=		HOLD CN14
XA526	TT3	E2	29A	(55)	01		CN12CA CN14BQ CNDBYA 62 29A 60 28A 53 28B	
XA526	TT3	E3	33B	CN144A	00	=		SET CN14 QUAL BY AYHX
XA526	TT3	E3	30B	(63)	01		AYHXCO CQC170 CN1450 57 30B 59 31B 61 32B	
XA526	TT3	F1	36B	CN145A	00	=		SET CN14 QUAL BY ADZR
XA526	TT3	F1	39B	(73)	01		CQC180 CN1450 ADZRCO 79 39B 77 38B 75 37B	
XA532	TS8	C1	17B	CN1490	00	=		SET CN14 DATA
XA532	TS8	C1	20A	(35)	01		CN145A CN141A CN142A CN143A SPA161 SPA159 SPA160 CN144A 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
				CN15BI	00	=		
XA523	YDD	LI	38B	( )	01		CN1590 77 38B	
				CN15BN	00	=		
XA523	YDD	LN	39B	( )	01		CNCPAB 79 39B	CN REG CLOCK APOL
XA523	TDD	LP	37A	CN15BP	00	=		
XA523	YDD	LP	37B	(76)	01		SPI047 75 37B	
XA523	TDD	LQ	38A	CN15BQ	00	=		
XA523	YDD	LQ	39A	(78)	01		SPA154 80 39A	
								SET CN15
XA525	TD4	E1	31B	CN15SA	00	=		
XA525	TD4	E1	33A	(59)	01		CMC2BP CMC3BQ CMC1BQ CMC4BQ 70 33A 68 32A 66 31A 61 32B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM.	DESIGNATOR	FACTOR	COMMENT
XA527	TQ2	D2	21A	CN1550	00	=		
XA527	TQ2	D2	23A	(46)	01		CN155A SPA157 50 23A 48 22A	
XA527	TQ2	D3	24B	CN151A	00	=		DB15 TO CN15
XA527	TQ2	D3	22B	(45)	01		DB15C0 CNDBU0 41 22B 43 23B	
XA527	TQ2	D4	27B	CN152A	00	=		DB31 TO CN15
XA527	TQ2	D4	25B	(51)	01		DB31C0 CNDBW0 47 25B 49 26B	
XA526	TT3	F2	35B	CN153A	00	=		HOLD CN15
XA526	TT3	F2	36A	(74)	01		CN158Q CN08YA CN12CA 71 36A 72 34A 65 34B	
XA526	TT3	F3	39A	CN154A	00	=		SET CN15 QUAL BY ADSE-ADZRA
XA526	TT3	F3	35A	(80)	01		ADSECA ADZRCA CN1550 69 35A 76 37A 78 38A	
XA525	TD4	E2	30B	CN1590	00	=		SET CN15 DATA
XA525	TD4	E2	30A	(57)	01		CN154A CN152A CN151A CN153A 64 30A 62 29A 60 28A 55 29B	
XA230	TD4	C1	17B	CPFS1A	00	=		
XA230	TD4	C1	20A	(35)	01		J3RES0 CTIMBQ CRO0BP CRO090 42 20A 40 19A 38 18A 37 18B	
XA407	TD4	D2	24B	CPRINO	00	=		PRIVILEGED INSTRUCTION
XA407	TD4	D2	23A	(45)	01		CX71CA CX72CA C073CA CX70CA 50 23A 48 22A 46 21A 43 23B	
XA231	TS8	E1	31B	CQALTA	00	=		LTIN DECODE - A
XA231	TS8	E1	33A	(59)	01		CX20CA CQALX0 SPA053 SPA052 SPA051 CX23CA SPA050 CX33CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA235	TS8	F1	37A	CQALX0	00	=		LTIN DECODE - 0
XA235	TS8	F1	39B	(76)	01		CX3XAA SPA057 SPA056 SPA055 SPA054 CX2XAA CX13CA CX12CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA229	TQ2	B1	12A	CQA0CA	00	=		F = 1 DECODE - A
XA229	TQ2	B1	14A	(22)	01		SPA049 CQA0C0 26 14A 24 13A	
XA232	TQ2	B3	10B	CQA0C0	00	=		F = 1 DECODE - 0
XA232	TQ2	B3	08B	(21)	01		SPA051 CCE1CA 17 08B 19 09B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA229	TQ2	C1	18A	CQA1C0	00 =			
XA229	TQ2	C1	20A	(38 )	01		CX30CA CX31CA 42 20A 40 19A	FFF/FEH/FTF/ETH - 0
XA229	TQ2	B2	09A	CQA2CA	00 =			
XA229	TQ2	B2	11A	(14 )	01		CQA2C0 SPA049 20 11A 18 10A	SHE/SHH - A
XA232	TQ2	B4	13B	CQA2C0	00 =			
XA232	TQ2	B4	11B	(27 )	01		SPA051 CX32EA 23 11B 25 12B	SHE/SHH - 0
XA232	TQ2	C2	15A	CQA2D0	00 =			
XA232	TQ2	C2	17A	(30 )	01		SPA051 CQA2CA 36 17A 34 16A	SHE/SHH - 0 - UNLOAD
XA229	TQ2	C3	16B	CQA3CA	00 =			
XA229	TQ2	C3	14B	(33 )	01		SPA049 CQA3C0 29 14B 31 15B	DIE/DIH - A
XA232	TQ2	C4	19B	CQA3C0	00 =			
XA232	TQ2	C4	17B	(39 )	01		SPA051 CX15CA 35 17B 37 18B	DIE/DIH - 0
XA229	TQ2	D1	24A	CQA3D0	00 =			
XA229	TQ2	D1	26A	(52 )	01		CX15CA SPA049 56 26A 54 25A	DIE/DIH - 0 - UNLOAD
XA229	TQ2	D2	21A	CQA4C0	00 =			
XA229	TQ2	D2	23A	(46 )	01		CX14CA SPA049 50 23A 48 22A	MPE/MPH - 0
XA229	TQ2	D3	24B	CQA5C0	00 =			
XA229	TQ2	D3	22B	(45 )	01		SPA049 CX23EA 41 22B 43 23B	CGE/CGH - 0
XA229	TQ2	D4	27B	CQA6CA	00 =			
XA229	TQ2	D4	25B	(51 )	01		SPA049 CQA6C0 47 25B 49 26B	XII/XDI/XIQ/XIT - A
XA232	TQ2	E1	31A	CQA6C0	00 =			
XA232	TQ2	E1	33A	(66 )	01		CX65CA CX64CA 70 33A 68 32A	XII/XDI/XIQ/XDO - 0
XA229	TQ2	E2	28A	CQA7CA	00 =			
XA229	TQ2	E2	30A	(60 )	01		SPA050 CQA7C0 64 30A 62 29A	EQE/EQH/REF/REH - A

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CONNECTOR	CIRCUIT GROUP	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA230	TD4	B2	10B		CQA7C0	00	=		EOF/EOM/REF/REH - 0
XA230	TD4	B2	11A		(21)	01		CX36CA SPA050 EEDTCA CX26CA 20 11A 18 10A 14 09A 19 09B	
XA229	TQ2	E3	30B		CQA8C0	00	=		MTH - 0
XA229	TQ2	E3	28B		(57)	01		SPA049 C157CA 53 28B 55 29B	
XA229	TQ2	E4	33B		CQA9C0	00	=		TQR - 0
XA229	TQ2	E4	31B		(63)	01		SPA049 C133EA 59 31B 61 32B	
XA229	TQ2	F1	37B		CQB1C0	00	=		DIF/DIH/RDF - 0
XA229	TQ2	F1	39B		(75)	01		C033EA CX15CA 79 39B 77 38B	
XA229	TQ2	F2	34A		CQB2C0	00	=		MPF/MPH/DIF/DIH - 0
XA229	TQ2	F2	36B		(72)	01		CX15CA CX14CA 73 36B 71 36A	
XA229	TQ2	F3	35A		CQB3C0	00	=		MPF/MPH/SHE/SHH - 0
XA229	TQ2	F3	34B		(69)	01		CX32EA CX14CA 65 34B 74 35B	
XA230	TD4	F1	37A		CQB4C0	00	=		FEF/FEH/FIF/FIH/SHE/SHH - 0
XA230	TD4	F1	39B		(76)	01		SPA050 CX31CA CX30CA CX32EA 79 39B 77 38B 75 37B 78 38A	
XA229	TQ2	F4	39A		CQB5CA	00	=		FEH/FIH/SHH - A
XA229	TQ2	F4	37A		(80)	01		CQB5C0 SPA050 76 37A 78 38A	
XA230	TD4	F2	35A		CQB5C0	00	=		FEH/FIH/SHH - 0
XA230	TD4	F2	36B		(69)	01		C131CA C130CA C132CA SPA050 73 36B 71 36A 72 34A 74 35B	
XA305	TQ2	A1	05A		CQCNC A	00	=		
XA305	TQ2	A1	07A		(06)	01		SPA071 CQCNC0 10 07A 08 06A	
XA306	TQ2	A1	05A		CQCNC0	00	=		IQ/EQ/AN/EX
XA306	TQ2	A1	07A		(06)	01		CX56CA C308MA 10 07A 08 06A	
XA305	TQ2	A2	02B		CQCND A	00	=		RQW2.(IQ/EQ/AN)*
XA305	TQ2	A2	04A		(01)	01		C308MA CX2XC0 04 04A 05 03B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA305	TQ2	A3	04B	CQC030	00	=		SIC QUAL AC00
XA305	TQ2	A3	02A	(09)	01		SPA071 C163CA 03 02A 07 03A	
XA305	TQ2	A4	07B	CQC040	00	=		SIC QUAL AC00*
XA305	TQ2	A4	05B	(15)	01		SPI028 C063CA 11 05B 13 06B	
XA217	TT3	E3	33B	CQC050	00	=		
XA217	TT3	E3	30B	(63)	01		C062CA C166CA C067CA 57 30B 59 31B 61 32B	
XA301	TS8	A1	05B	CQC060	00	=		SIC QUAL ACZR*
XA301	TS8	A1	07A	(11)	01		C133EA C167CA C065CA C064CA SPA070 SPA069 SPA071 C162CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA305	TQ2	B2	09A	CQC070	00	=		SIC QUAL ACZ1*
XA305	TQ2	B2	11A	(14)	01		C164CA C165CA 20 11A 18 10A	
XA305	TQ2	B4	13B	CQC110	00	=		QUAL - AKCB
XA305	TQ2	B4	11B	(27)	01		C306HA C306FA 23 11B 25 12B	
XA310	TT3	B1	11A	CQC140	00	=		QUAL (ADSE=AD00)*
XA310	TT3	B1	14A	(20)	01		C306GA CX43CA C306KA 26 14A 24 13A 22 12A	
XA304	TS8	B1	11B	CQC150	00	=		QUAL (AYSE=AY00)*
XA304	TS8	B1	14A	(23)	01		C033EA CX15CA SPA071 CX14CA C308MA C308JA SPA070 SPA072 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA307	TD4	C1	17B	CQC160	00	=		QUAL ADSE
XA307	TD4	C1	20A	(35)	01		CX21CA C200QA C157EA C308LA 42 20A 40 19A 38 18A 37 18B	
XA307	TD4	C2	16B	CQC170	00	=		QUAL AYHX
XA307	TD4	C2	17A	(33)	01		CX1XCA CX4XAA CQCNCA CX3XAA 36 17A 34 16A 30 15A 31 15B	
XA306	TQ2	A3	04B	CQC180	00	=		QUAL ADZR
XA306	TQ2	A3	02A	(09)	01		CQCND A C157EA 03 02A 07 03A	
XA213	TDD	MI	36A	CQEXBI	00	=		
				( )	01		CS0EBQ 71 36A	

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CONNECTOR	TEST POINT	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
				CQEXBN	00 =			
XA213	TDD	MN	34A	( )	01		CSCPAB 72 34A	GATED CLK- STATE COUNT ER
XA213	TDD	MP	35A	CQEXBP	00 =			
XA213	TDD	MP	36B	(69 )	01		J3RESO 73 36B	
XA213	TDD	MQ	35B	CQEXBQ	00 =			
XA213	TDD	MQ	34B	(74 )	01		SPA034 65 34B	
XA308	TQ2	F2	34A	CQEXQ0	00 =			CQEXBQ UNLOAD- INSTR EXE QUAL
XA308	TQ2	F2	36B	(72 )	01		SPA074 CQEXBP 73 36B 71 36A	
XA532	TSB	F1	37A	CQM0EA	00 =			OF QUAL-(TXP/TCP/TJE/LOD).
XA532	TSB	F1	39B	(76 )	01		CQM0FO SPA161 SPA160 CQM2GA CQEXBQ SPA165 SPA159 SPA156 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA535	TQ2	F1	37B	CQM0FO	00 =			
XA535	TQ2	F1	39B	(75 )	01		C172CA C612RA 79 39B 77 38B	
XA534	TQ2	D3	24B	CQM0LA	00 =			OL QUAL-(LEV CHNG ST).MASP.
XA534	TQ2	D3	22B	(45 )	01		CS0LBQ MNASPO 41 22B 43 23B	
XA536	TSB	D1	25B	CQM000	00 =			
XA536	TSB	D1	26A	(47 )	01		SPI035 SPI046 SPI047 CSL3DA CG53CA CQM0EA CQM0LA SPI036 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA535	TQ2	D4	27B	CQM010	00 =			QUAL BY MASP*.MB00*
XA535	TQ2	D4	25B	(51 )	01		SPA159 CF02CA 47 25B 49 26B	
XA534	TQ2	D4	27B	CQM02A	00 =			QUAL BY MASP*. (MB00,MB01)*.A
XA534	TQ2	D4	25B	(51 )	01		SPA159 CQM020 47 25B 49 26B	
XA538	TD4	F2	35A	CQM020	00 =			QUAL BY MASP*. (MB00,MB01)*.0
XA538	TD4	F2	36B	(69 )	01		CQM2GA CF04CA CQM2CA CQM2EA 73 36B 71 36A 72 34A 74 35B	
XA534	TQ2	E1	31A	CQM03A	00 =			QUAL BY (MASP*. (MB00,MB01)*)/
XA534	TQ2	E1	33A	(66 )	01		CQM3CO CS0EBQ 70 33A 68 32A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA535	TQ2	E1	31A	CQM030	00	H		QUAL 03-DP01
XA535	TQ2	E1	33A	(66)	01		SPA160 CQM03A 70 33A 68 32A	
XA534	TQ2	E2	28A	CQM04A	00	=		QUAL BY MASP*.MB00*.MB01*.
XA534	TQ2	E2	30A	(60)	01		CQM4C0 CQEXBQ 64 30A 62 29A	
XA534	TQ2	E3	30B	CQM05A	00	=		QUAL BY (MASP*.MB00*.MB01*)/
XA534	TQ2	E3	28B	(57)	01		CQEXBQ C133C0 53 28B 55 29B	
XA535	TQ2	E2	28A	CQM050	00	=		QUAL BY (MASP*.MB00*.MB01*)/
XA535	TQ2	E2	30A	(60)	01		SPA160 CQM05A 64 30A 62 29A	
XA534	TQ2	E4	33B	CQM07A	00	=		QUAL BY (MASP*.MB00*.MB01*)/
XA534	TQ2	E4	31B	(63)	01		CQEXBQ CQM7CA 59 31B 61 32B	
XA535	TQ2	E3	30B	CQM070	00	=		
XA535	TQ2	E3	28B	(57)	01		SPA160 CQM07A 53 28B 55 29B	
XA534	TQ2	F1	37B	CQM08A	00	=		QUAL BY MALL/MAQT
XA534	TQ2	F1	39B	(75)	01		CQEXBQ C527E0 79 39B 77 38B	
XA535	TQ2	E4	33B	CQM080	00	=		
XA535	TQ2	E4	31B	(63)	01		SPA160 CQM08A 59 31B 61 32B	
XA534	TQ2	F2	34A	CQM2CA	00	=		QUAL 2,2D. (EXE STATE)
XA534	TQ2	F2	36B	(72)	01		CS0E50 CQM2D0 73 36B 71 36A	
XA547	TS8	E1	31B	CQM2D0	00	=		QUAL BY MASP*. (MB00,MB01)*
XA547	TS8	E1	33A	(59)	01		SPA167 SPA166 C200RA CX2XAA CQPMDA C612JA C306KA C203HA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA534	TQ2	F3	35A	CQM2EA	00	=		QUAL 2,2E. (EXE STATE)
XA534	TQ2	F3	34B	(69)	01		CS0E50 CQM2F0 65 34B 74 35B	
XA547	TS8	F1	37A	CQM2F0	00	=		SH/LMH/LDU/LDL/DEV/DEX/ITR/
XA547	TS8	F1	39B	(76)	01		SPA167 SPA166 CX72CA CX41CA CX32CA C044CA CX71CA CX70CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA546	TD4	F1	37A	CQM2GA	00	=		(TXP/TCP/TIE/LOD), (EQ/E1)
XA546	TD4	F1	39B	(76)	01		CQM0F0 CS01BQ CS07Q0 CS0E0 79 39B 77 38B 75 37B 78 38A	
XA535	TQ2	F2	34A	CQM3C0	00	=		QUAL 3.
XA535	TQ2	F2	36B	(72)	01		CX40CA CX67CA 73 36B 71 36A	
XA536	TS8	F1	37A	CQM4C0	00	=		QUAL 4. RA/RS/RI/RE/RN/SDU/
XA536	TS8	F1	39B	(76)	01		C166CA SPA160 C156CA CX57CA C200WA C033CA C306GA CX45CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA546	TD4	F2	35A	CQM7CA	00	=		QUAL 7. SBT/RBT/SMH/SDF/SDH/
XA546	TD4	F2	36B	(69)	01		CX34CA C056CA C505EA CX55CA 73 36B 71 36A 72 34A 74 35B	
XA305	TQ2	F1	37B	CQPMDA	00	=		
XA305	TQ2	F1	39B	(75)	01		SPA072 CQPMDO 79 39B 77 38B	
XA306	TQ2	F1	37B	CQPMDO	00	=		MPF/MPH/DIF/DIH
XA306	TQ2	F1	39B	(75)	01		CX15CA CX14CA 79 39B 77 38B	
XA305	TQ2	F2	34A	CQPQSA	00	=		
XA305	TQ2	F2	36B	(72)	01		SPA072 CQPQSO 73 36B 71 36A	
XA306	TQ2	F2	34A	CQPQSO	00	=		TQR/SHE/SHH
XA306	TQ2	F2	36B	(72)	01		CX32FA C133CA 73 36B 71 36A	
XA305	TQ2	F3	35A	CQPR7A	00	=		
XA305	TQ2	F3	34B	(69)	01		C166CA C614G0 65 34B 74 35B	
XA305	TQ2	F4	39A	CQPSTA	00	=		GEN QUAL TO SEL MASP.MAGR*
XA305	TQ2	F4	37A	(80)	01		C133CA C615E0 76 37A 78 38A	
XA310	TT3	C3	19B	CQP01A	00	=		L6.LCIN.(TXPN/TIEN)
XA310	TT3	C3	16B	(39)	01		CR05BQ CG6SCO CSL2E0 33 16B 35 17B 37 18B	
XA304	TS8	E1	31B	CQP060	00	=		QUAL BY MASP*(MR00.MR01)
XA304	TS8	E1	33A	(59)	01		C200RA CQPQSA CQPR7A SPA071 CTE2EA C612KA C306HA CQPMDA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
			AND	OR					
XA304	TS8	D1	25B		CQP070	00	=		QUAL BY MASP*(MB00*,MB01*)*
XA304	TS8	D1	26A		(47)	01		CX45CA CX57CA C156CA C306FA C200WA CX33CA CQP08A C166CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA305	TQ2	D1	24A		CQP08A	00	=		
XA305	TQ2	D1	26A		(52)	01		CQP080 SPA072 56 26A 54 25A	
XA304	TS8	C1	17B		CQP080	00	=		QUAL BY MASP,MAGR*
XA304	TS8	C1	20A		(35)	01		C056CA C144CA CX34EA CX47CA SPA072 CX46CA SPA071 CX55EA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA308	TQ2	C2	15A		CQP110	00	=		QUAL BY MASP,MAGR*
XA308	TQ2	C2	17A		(30)	01		CQPSTA SPA073 36 17A 34 16A	
XA510	TT3	A2	03A		CQP15A	00	=		INH AUC-TOP-EZ-AC7R*
XA510	TT3	A2	03B		(07)	01		CE03CO ACZRCA C133CO 05 03B 01 02B 03 02A	
XA135	TQ2	F3	35A		CRCPXA	00	=		
XA135	TQ2	F3	34B		(69)	01		CLOCLB SPI015 65 34B 74 35B	
XA131	TQ2	F1	37B		CRCP0A	00	=		GATED CLOCK-CONTROL REGISTER
XA131	TQ2	F1	39B		(75)	01		SPA020 CLOCLB 79 39B 77 38B	
XA133	TD4	F1	37A		CRDBLA	00	=		STATUS TO DB0007 FOR CTS DISP
XA133	TD4	F1	39B		(76)	01		CMD18P CMD48P CMD38Q CMD28P 79 39B 77 38B 75 37B 78 38A	
XA131	TQ2	F2	34A		CRDBLO	00	=		
XA131	TQ2	F2	36B		(72)	01		SPA020 CRDBLA 73 36B 71 36A	
XA131	TQ2	F3	35A		CRDBMO	00	=		
XA131	TQ2	F3	34B		(69)	01		SPA020 CRDBLA 65 34B 74 35B	
					CRUNBI	00	=		
XA129	TDD	MI	36A		( )	01		CRUSBQ 71 36A	
					CRUNBN	00	=		
XA129	TDD	MN	34A		( )	01		CRUNCA 72 34A	

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			AND	OR					
XA129	TDD	MP	35A		CRUNBP	00	=		
XA129	TDD	MP	36B		(69)	01		CRUSSA 73 36B	
XA129	TDD	MQ	35B		CRUNBQ	00	=		
XA129	TDD	MQ	34B		(74)	01		SPA019 65 34B	
XA133	TD4	C2	16B		CRUNCA	00	=		
XA133	TD4	C2	17A		(33)	01		CT02BQ CT8MBQ SPA021 SPA014 36 17A 34 16A 30 15A 31 15B	
XA135	TQ2	F4	39A		CRUNQO	00	=		
XA135	TQ2	F4	37A		(80)	01		CRUNBP SPI016 76 37A 78 38A	
					CRUSBI	00	=		
XA215	TDD	A1	06A		( )	01		CRUS90 08 06A	
					CRUSBN	00	=		
XA215	TDD	AN	07A		( )	01		CSCPAB 10 07A	GATED CLK- STATE COUNT FR
XA215	TDD	AP	05B		CRUSBP	00	=		
XA215	TDD	AP	05A		(11)	01		JIRESD 06 05A	
					CRUSBQ	00	=		
XA215	TDD	AQ	06B		(13)	01		CRUSSA 15 07B	ENA RUN FF T/INH CS CLK F
					CRUSEO	00	=		
XA131	TQ2	E4	33B		(63)	01		CG53CA CTERMA 59 31B 61 32B	STOP CONDITIONS FOR BTSP ENTR
					CRUSFO	00	=		
XA131	TQ2	E3	30B		(57)	01		CRUSHA CRUSGA 53 28B 55 29B	STOP COND FOR POWER OFF OR
					CRUSGA	00	=		
XA224	TQ2	F3	35A		(69)	01		CG7SCO CS07P0 65 34B 74 35B	
					CRUSHA	00	=		
XA133	TD4	F2	35A		(69)	01		CE02C0 CRUSQ0 CRUSJO URUNAO 73 36B 71 36A 72 34A 74 35B	CONDITIONAL HLT

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA134	TS8	A1	05B		CRUSJO	00	=		HALT CONDITIONS
XA134	TS8	A1	07A		(11)	01		SPA024 CRUSPA CRUSLA SPA022 CRUSNA CRUSMA SPA023 CRUSKA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA133	TD4	A1	05B		CRUSKA	00	=		H FIELD IS ZERO
XA133	TD4	A1	07A		(11)	01		CC09BP CC10BP CC12BP CC11BP 10 07A 08 06A 06 05A 13 06B	
XA135	TQ2	A1	05A		CRUSLA	00	=		SW1 COMPARE
XA135	TQ2	A1	07A		(06)	01		CC09BQ UCHT10 10 07A 08 06A	
XA135	TQ2	A2	02B		CRUSMA	00	=		SW2 COMPARE
XA135	TQ2	A2	04A		(01)	01		CC10BQ UCHT20 04 04A 05 03B	
XA135	TQ2	A3	04B		CRUSNA	00	=		SW3 COMPARE
XA135	TQ2	A3	02A		(09)	01		UCHT30 CC11BQ 03 02A 07 03A	
XA135	TQ2	A4	07B		CRUSPA	00	=		SW4 COMPARE
XA135	TQ2	A4	05B		(15)	01		CC12BQ UCHT40 11 05B 13 06B	
XA314	TQ2	A4	07B		CRUSQA	00	=		
XA314	TQ2	A4	05B		(15)	01		C072C0 PLPR20 11 05B 13 06B	
XA226	TQ2	F4	39A		CRUSQ0	00	=		
XA226	TQ2	F4	37A		(80)	01		CRUSQA SPI025 76 37A 78 38A	
XA120	TD4	C2	16B		CRUSSA	00	=		
XA120	TD4	C2	17A		(33)	01		CRUSGA UINHSD4 CRUSSO CRUNBP 36 17A 34 16A 30 15A 31 15B	
XA133	TD4	C1	17B		CRUSSO	00	=		PWR ON,CTS OR BTSP S77 START
XA133	TD4	C1	20A		(35)	01		JSSGAD4 USTRTB CPFS1A EDSD0A 42 20A 40 19A 38 18A 37 18B	
XA134	TS8	B1	11B		CRUS0A	00	=		
XA134	TS8	B1	14A		(23)	01		CRUS4A CRUS5A CRUS1A UASTPB CRUS3A CRUS2A ERUSCA CRUSB0 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA135	TQ2	B1	12A		CRUS1A	00	=		INSTR STOP METER ES01
XA135	TQ2	B1	14A		(22)	01		CF01C0 UINSTO 26 14A 24 13A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA135	TQ2	B2	09A	CRUS2A	00	=		STATE STOP
XA135	TQ2	B2	11A	(14)	01		UINSTO USTSP0 20 11A 18 10A	
XA135	TQ2	B3	10B	CRUS3A	00	=		ERROR STOP
XA135	TQ2	B3	08B	(21)	01		UERSTO CRO1BQ 17 08B 19 09B	
XA132	TT3	E1	30A	CRUS4A	00	=		BOOTSTRAP ENTRY STOP
XA132	TT3	E1	33A	(64)	01		SPA021 CRUSE0 JBSTAO 70 33A 68 32A 66 31A	
XA132	TT3	D3	27B	CRUS5A	00	=		PWRF/COND HLT STOP
XA132	TT3	D3	24B	(51)	01		SPA021 SPA022 CRUSFO 45 24B 47 25B 49 26B	
XA132	TT3	F2	35B	CRUS90	00	=		HOLD START AND RUN STATUS
XA132	TT3	F2	36A	(74)	01		SPA022 CRUS0A SPA021 71 36A 72 34A 65 34B	
XA131	TQ2	E1	31A	CRXRSA	00	=		ASYNCH RST CR02.04.05.11.14
XA131	TQ2	E1	33A	(66)	01		CSRS10 SPA020 70 33A 68 32A	
				CRO0BI	00	=		
XA129	TDD	A1	06A	( )	01		CRO090 08 06A	
				CRO0BN	00	=		
XA129	TDD	AN	07A	( )	01		CRCP0A 10 07A	
XA129	TDD	AP	05B	CR00BP	00	=		
XA129	TDD	AP	05A	(11)	01		CRUSSA 06 05A	
XA129	TDD	AQ	06B	CR00BQ	00	=		
XA129	TDD	AQ	07B	(13)	01		SPA019 15 07B	
XA131	TQ2	A1	05A	CR001A	00	*		HOLD POWER OFF STATUS
XA131	TQ2	A1	07A	(06)	01		CRO0BQ SPA018 10 07A 08 06A	
XA132	TT3	A1	04A	CR0090	00	=		D-INPUT
XA132	TT3	A1	07A	(04)	01		JSTPAD4 SPA020 CRO01A 10 07A 08 06A 06 05A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA129	TDD	BI	03B	CR01BI ( )	00 01	=	CR0190 05 03B	
XA129	TDD	BN	02B	CR01BN ( )	00 01	=	CRCPOA 01 02B	
XA129	TDD	BP	04B	CR01BP (09 )	00 01	=	CR01HA 04 04A	
XA129	TDD	BQ	03A	CR01BQ (07 )	00 01	=	SPA019 03 02A	
XA131	TQ2	A2	02B	CR01HA (01 )	00 01	=	SPA018 CR01HO 04 04A 05 03B	INH ERROR EXIT IN CPU BTSP
XA132	TT3	A2	03A	CR01HO (07 )	00 01	=	J1RES0 UL02IB CS0BBP 05 03B 01 02B 03 02A	MASTER RESET/ CPU BTSP
XA131	TQ2	A3	04B	CR01PO (09 )	00 01	=	SPA018 CR01BQ 03 02A 07 03A	CR01BP UNLOAD
XA131	TQ2	E2	28A	CR01Q0 (60 )	00 01	=	CR01BP SPI017 64 30A 62 29A	CR01BQ UNLOAD
XA132	TT3	A3	07B	CR01RA (15 )	00 01	=	SPA020 CG65C0 PLE2C0 09 04B 11 05B 13 06B	RESET ERROR EXIT
XA133	TD4	A2	04B	CR01SA (09 )	00 01	=	SPI005 PLE2CA CR0190 CR01HA 04 04A 05 03B 01 02B 07 03A	
XA131	TQ2	A4	07B	CR01S0 (15 )	00 01	=	SPA018 CR01SA 11 05B 13 06B	CR01BQ UNLOAD
XA131	TQ2	B1	12A	CR011A (22 )	00 01	=	CR01BQ CR01RA 26 14A 24 13A	HOLD ERROR EXIT

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XA131	TQ2	B2	09A	CR012A	00	=		
XA131	TQ2	B2	11A	(14)	01		CR11BQ CR12BQ 20 11A 18 10A	SET ERROR EXIT FR ID
XA134	TS8	F1	37A	CR0190	00	=		
XA134	TS8	F1	39B	(76)	01		PQ041A PQ002A CN074A SPA022 CRO11A CRO12A PQ011A PQ001A 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	D-INPUT
XA129	TDD	C1	13A	CR02BI	00	=		
				( )	01		CR0290 24 13A	
XA129	TDD	CN	14A	CR02BN	00	=		
				( )	01		CRCP0A 26 14A	
XA129	TDD	CP	11B	CR02BP	00	=		
XA129	TDD	CP	12A	(23)	01		CRXRSA 22 12A	
XA129	TDD	CQ	12B	CR02BQ	00	=		
XA129	TDD	CQ	13B	(25)	01		SPA019 27 13B	
XA133	TD4	E1	31B	CR02DA	00	=		
XA133	TD4	E1	33A	(59)	01		CMC3BP CMC1BQ CMC4BQ CMC2BQ 70 33A 68 32A 66 31A 61 32B	SET TRAP- MOP CODE C-1101
XA131	TQ2	B3	10B	CR02D0	00	=		
XA131	TQ2	B3	08B	(21)	01		SPA019 CR02DA 17 08B 19 09B	
XA133	TD4	E2	30B	CR02EA	00	=		
XA133	TD4	E2	30A	(57)	01		CMC1BQ CMC4BQ CMC3BQ CMC2BQ 64 30A 62 29A 60 28A 55 29B	SET TRAP- MOP CODE C-1111
XA131	TQ2	B4	13B	CR02E0	00	=		
XA131	TQ2	B4	11B	(27)	01		SPA020 CR02EA 23 11B 25 12B	
XA132	TT3	E2	29B	CR02RA	00	=		
XA132	TT3	E2	29A	(55)	01		CMC1BQ CMC2BQ CMC4BP 62 29A 60 28A 53 28B	RST TRAP- MOP CODE C-11X0
XA131	TQ2	C1	18A	CR02SA	00	=		
XA131	TQ2	C1	20A	(38)	01		SPA020 CR0290 42 20A 40 19A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA131	TQ2	C2	15A	CR021A	00	=		HOLD TRAP
XA131	TQ2	C2	17A	(30)	01		CR02BQ CR02RA 36 17A 34 16A	
XA216	TD4	F1	37A	CR022A	00	=		
XA216	TD4	F1	39B	(76)	01		CN13EA CR02D0 CQC150 CN13DA 79 39B 77 38B 75 37B 78 38A	
XA132	TT3	B3	13B	CR023A	00	=		SET TRAP QUAL BY
XA132	TT3	B3	10B	(27)	01		CR02D0 CQC140 ADSXB4 21 10B 23 11B 25 12B	
XA132	TT3	C1	17A	CR024A	00	=		SET TRAP QUAL BY AYHX
XA132	TT3	C1	20A	(36)	01		AYHXCO C157CO CR02D0 42 20A 40 19A 38 18A	
XA132	TT3	C2	15B	CR025A	00	=		SET TRAP QUAL IN DIF/DIN 56
XA132	TT3	C2	16A	(31)	01		CX15CO CN13JO CR02E0 34 16A 30 15A 29 14B	
XA132	TT3	C3	19B	CR026A	00	=		SET TRAP QUAL BY ((CN13)/
XA132	TT3	C3	16B	(39)	01		CN13BQ CR02E0 CX42CO 33 16B 35 17B 37 18B	
XA132	TT3	B2	09B	CR027A	00	=		
XA132	TT3	B2	10A	(19)	01		ADSXB4 CX42CO CR02E0 18 10A 14 09A 17 08B	
XA134	TS8	C1	17B	CR0290	00	=		D-INPIT
XA134	TS8	C1	20A	(35)	01		CR026A CR027A CN114A CR025A CR021A CR022A CR023A CR024A 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
				CR038I	00	=		
XA129	TDD	DI	10A	( )	01		CR0390 18 10A	
				CR038N	00	=		
XA129	TDD	DN	09A	( )	01		CR038N 14 09A	
XA129	TDD	DP	10B	CR038P	00	=		
XA129	TDD	DP	11A	(21)	01		SPA018 20 11A	
XA129	TDD	DQ	09B	CR038Q	00	=		
XA129	TDD	DQ	08B	(19)	01		CRXRSA 17 08B	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	REG. FACTOR	FACTOR	COMMENT
XA133	TD4	D1	25B	CR03CA	00	=		SET LEV LOCK- LLD INSTR
XA133	TD4	D1	26A	(47)	01		CMP68Q SPA022 SPA023 PQ16C0 56 26A 54 25A 52 24A 49 26B	
XA133	TD4	D2	24B	CR03RA	00	=		RST LEV LOCK- IIR INSTR/
XA133	TD4	D2	23A	(45)	01		CMP68P PQ16C0 SPA022 SPA021 50 23A 48 22A 46 21A 43 23B	
XA131	TQ2	C3	16B	CR031A	00	=		HOLD LEVEL LOCK
XA131	TQ2	C3	14B	(33)	01		CR03RA CR03BQ 29 14B 31 15B	
XA131	TQ2	C4	19B	CR032A	00	=		SET LEV LOCK L200.EXIT
XA131	TQ2	C4	17B	(39)	01		CR01BQ CG20C0 35 17B 37 18B	
XA131	TQ2	D1	24A	CR033A	00	=		SET LEV LOCK L400.PWRF
XA131	TQ2	D1	26A	(52)	01		CG40C0 CR00BQ 56 26A 54 25A	
XA134	TS8	D1	25B	CR0390	00	=		D-INPUT
XA134	TS8	D1	26A	(47)	01		SPA021 SPA024 SPA023 CR03CA CR032A SPA022 CR031A CR033A 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
				CR04BI	00	=		
XA129	TDD	E1	19A	( )	01		CR0490 40 19A	
				CR04BN	00	=		
XA129	TDD	EN	20A	( )	01		CRCP0A 42 20A	
XA129	TDD	EP	17B	CR04BP	00	=		
XA129	TDD	EP	18A	(35)	01		CRXRSA 38 18A	
XA129	TDD	EQ	18B	CR04BQ	00	=		
XA129	TDD	EQ	19B	(37)	01		SPA019 39 19B	
XA131	TQ2	D2	21A	CR041A	00	=		HOLD AUCTION INITIATE
XA131	TQ2	D2	23A	(46)	01		CR04BQ CR14BQ 50 23A 48 22A	
XA132	TT3	D1	23A	CR0490	00	=		D-INPUT
XA132	TT3	D1	26A	(50)	01		SPA021 CR041A CR14BP 56 26A 54 25A 52 24A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	SERIAL FACTOR	FACTOR	COMMENT
			AND	OR					
					CR05B1	00	=		
XA129	TDD	FI	16A		( )	01		CR0590 34 16A	
					CR05BN	00	=		
XA129	TDD	FN	15A		( )	01		CRCP0A 30 15A	
XA129	TDD	FP	16B		CR05BP	00	=		
XA129	TDD	FP	17A		(33 )	01		CRXRSA 36 17A	
XA129	TDD	FQ	15B		CR05BQ	00	=		
XA129	TDD	FQ	14B		(31 )	01		SPA019 29 14B	
XA131	TQ2	D3	24B		CR051A	00	=		
XA131	TQ2	D3	22B		(45 )	01		CN11SA CR05BQ 41 22B 43 23B	HOLD LEV CHG BY INSTR STATUS
XA131	TQ2	D4	27B		CR052A	00	=		
XA131	TQ2	D4	25B		(51 )	01		CR01BP CG20C0 47 25B 49 26B	SET ICIN #200.EXIT#
XA132	TT3	D2	23B		CR0590	00	=		
XA132	TT3	D2	22A		(43 )	01		CG10CA CR052A CR051A 48 22A 46 21A 41 22B	D-INPUT
					CR11B1	00	=		
XA129	TDD	GI	25A		( )	01		CG62CA 54 25A	
					CR11BN	00	=		
XA129	TDD	GN	26A		( )	01		CR11CA 56 26A	
XA129	TDD	GP	25B		CR11BP	00	=		
XA129	TDD	GP	24A		(47 )	01		CRXRSA 52 24A	
XA129	TDD	GQ	26B		CR11BQ	00	=		
XA129	TDD	GQ	27B		(49 )	01		JS02AD4 51 27B	ASYNCH SET BY IO
XA132	TT3	F3	39A		CR11CA	00	=		
XA132	TT3	F3	35A		(80 )	01		PLE2C0 CG62C0 CLOCLB 69 35A 76 37A 78 38A	CLOCKED RESET OF CR11

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
				CR12BI	00	=		
XA117	TDD	MI	36A	( )	01		CR11BQ 71 36A	
				CR12BN	00	=		
XA117	TDD	MN	34A	( )	01		CRCP0A 72 34A	
XA117	TDD	MP	35A	CR12BP	00	=		
XA117	TDD	MP	36B	(69 )	01		SPT004 73 36B	
XA117	TDD	MQ	35B	CR12BQ	00	=		
XA117	TDD	MQ	34B	(74 )	01		SPT001 65 34B	
				CR14BI	00	=		
XA129	TDD	HI	22A	( )	01		CG30CA 48 22A	
				CR14BN	00	=		
XA129	TDD	HN	21A	( )	01		CR14RA 46 21A	
XA129	TDD	HP	24B	CR14BP	00	=		
XA129	TDD	HP	23A	(45 )	01		CRXRSA 50 23A	
XA129	TDD	HQ	23B	CR14BQ	00	=		SET AUCTION INI
XA129	TDD	HQ	22B	(43 )	01		JLIYAD4 41 22B	
XA131	TQ2	F4	39A	CR14RA	00	=		RESET AUC INI BUFFER
XA131	TQ2	F4	37A	(80 )	01		CLOCLB CG30C0 76 37A 78 38A	
				CSCPAB	00	=		
XA211	TQ2	A1	05A	( )	01		CSCPCA 06 05A	
XA211	TQ2	A2	02B	( )	02	+	CSCPDA 01 02B	
XA211	TQ2	A3	04B	( )	03	+	CSCPEA 09 04B	
XA211	TQ2	A1	05A	CSCPCA	00	=		CSCPAB BUSS
XA211	TQ2	A1	07A	(06 )	01		CRUSBQ CLOCLB 10 07A 08 06A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA211	TQ2	A2	02B		CSCPDA	00	=		CSCPAB BUSS
XA211	TQ2	A2	04A		(01)	01		CLOCLB CRUSBQ 04 04A 05 03B	
XA211	TQ2	A3	04B		CSCPEA	00	=		CSCPAB BUSS
XA211	TQ2	A3	02A		(09)	01		CRUSBQ CLOCLB 03 02A 07 03A	
XA212	TD4	F2	35A		CSDBLA	00	=		BLD CS0013DB0013- TO CTS DISP
XA212	TD4	F2	36B		(69)	01		CMC4BP CMC3BP CMC2BQ CMC1BP 73 36B 71 36A 72 34A 74 35B	
XA211	TQ2	F4	39A		CSDBLO	00	=		
XA211	TQ2	F4	37A		(80)	01		CSDBLA SPA032 76 37A 78 38A	
XA211	TQ2	F3	35A		CSDBMO	00	=		
XA211	TQ2	F3	34B		(69)	01		SPA032 CSDBLA 65 34B 74 35B	
XA344	YDD	LI	38B		CSECB I	00	=		
					( )	01		CSEODA 77 38B	
XA344	YDD	LN	39B		CSECB N	00	=		
					( )	01		CSECPA 79 39B	
XA344	TDD	LP	37A		CSECB P	00	=		
XA344	TDD	LP	37B		(76)	01		CSECSA 75 37B	
XA344	TDD	LQ	38A		CSECB Q	00	=		
XA344	TDD	LQ	39A		(78)	01		CF02C0 80 39A	
XA438	TT3	A3	07B		CSECPA	00	=		
XA438	TT3	A3	04B		(15)	01		SPI037 MC119A CTMCBQ 09 04B 11 05B 13 06B	
XA435	TQ2	A4	07B		CSECSA	00	=		
XA435	TQ2	A4	05B		(15)	01		CSEOC0 CTNT00 11 05B 13 06B	
XA202	TS8	F1	37A		CSEOCA	00	=		
XA202	TS8	F1	39B		(76)	01		DB15DB DB13DB DB07DB CMASPO SPI019 CF02C0 CCOTRO DB14DB 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA224	TQ2	F4	39A		CSE0C0	00	N		
XA224	TQ2	F4	37A		(80)	01		SPI023 CSE0CA 76 37A 78 38A	
XA206	TQ2	A1	05A		CSE0EA	00	=		F3.(MIUN/MIUN)
XA206	TQ2	A1	07A		(06)	01		CF03C0 CX55C0 10 07A 08 06A	
XA206	TQ2	A2	02B		CSE0FA	00	=		F4
XA206	TQ2	A2	04A		(01)	01		CF04C0 CSE0G0 04 04A 05 03B	
XA205	TT3	A1	04A		CSE0G0	00	=		F4 COND
XA205	TT3	A1	07A		(04)	01		CSE0JA CC07B0 CSE0HA 10 07A 08 06A 06 05A	
XA207	TD4	A1	05B		CSE0HA	00	=		MOD2.SISO
XA207	TD4	A1	07A		(11)	01		CC07B0 CC08BP CCSZRO SPA027 10 07A 08 06A 06 05A 13 06B	
XA207	TD4	A2	04B		CSE0JA	00	=		MOD3.SISO
XA207	TD4	A2	04A		(09)	01		CC08B0 CCSZRO CC07B0 SPA027 04 04A 05 03B 01 02B 07 03A	
XA206	TQ2	A3	04B		CSE0TA	00	=		
XA206	TQ2	A3	02A		(09)	01		SPA026 CSE0T0 03 02A 07 03A	
XA208	TS8	A1	05B		CSE0T0	00	=		SLC E0/E2/E3/E0
XA208	TS8	A1	07A		(11)	01		CSE0EA ESE2CA CSE0FA CSE3FA CF06CA CSFOCA CSFODA CSE2EA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA206	TQ2	A4	07B		CSE0UA	00	=		
XA206	TQ2	A4	05B		(15)	01		SPA026 CSE0U0 11 05B 13 06B	
XA208	TS8	B1	11B		CSE0U0	00	=		SLC E0/E2/F0
XA208	TS8	B1	14A		(23)	01		CF06CA CSE0FA CSE2EA CSFOCA CSE0CA ESE2CA CSE0EA CSFODA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA206	TQ2	B1	12A		CSE0VA	00	=		
XA206	TQ2	B1	14A		(22)	01		CSE0V0 SPA026 26 14A 24 13A	
XA208	TS8	C1	17B		CSE0V0	00	=		SLC E0/F0
XA208	TS8	C1	20A		(35)	01		CF06CA CSE0FA SPA029 CSFOCA CSE0CA CSFODA CSE0EA SPIY01 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	

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XA203	TS8	A1	05B	CSE2CA	00	=	SIC ES02	
XA203	TS8	A1	07A	(11)	01		CS0EHO CKZRCA CS02LO CSE2D0 SPA065 SPA064 CKE1DA CS03HO 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA204	TQ2	A1	05A	CSE2D0	00	=	MPF/MPH/ROE	
XA204	TQ2	A1	07A	(06)	01		C033CA CX14CA 10 07A 08 06A	
XA204	TQ2	A2	02B	CSE2EA	00	=	SIC ES02	
XA204	TQ2	A2	04A	(01)	01		CG15C0 C170C0 04 04A 05 03B	
XA203	TS8	B1	11B	CSE3CA	00	=	SIC ES03	
XA203	TS8	B1	14A	(23)	01		CKZRCA CS03HO CKZUCA SPA065 SPA064 CSE3D0 CS02LO CS0EHO 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA205	TT3	A2	03A	CSE3D0	00	=	(FRMT/(SHEET,NMZ*1))	
XA205	TT3	A2	03B	(07)	01		CX30CA CX31CA CSE3EA 05 03B 01 02B 03 02A	
XA204	TQ2	A3	04B	CSE3EA	00	=	SHEET,NMZ*	
XA204	TQ2	A3	02A	(09)	01		CX32C0 AMNMZA 03 02A 07 03A	
XA203	TS8	C1	17B	CSE3FA	00	=	SIC ES03	
XA203	TS8	C1	20A	(35)	01		CKZRCA CKZUCA SPA065 CSE3G0 CS02LO CS03HO CS0EHO SPA064 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA204	TQ2	A4	07B	CSE3G0	00	=		
XA204	TQ2	A4	05B	(15)	01		CSE3HA CSE3KA 11 05B 13 06B	
XA205	TT3	A3	07B	CSE3HA	00	=	SHE,NMZ	
XA205	TT3	A3	04B	(15)	01		CSE3J0 AMNMZ0 C032C0 09 04B 11 05B 13 06B	
XA204	TQ2	B1	12A	CSE3J0	00	=	AC00=AC01	
XA204	TQ2	B1	14A	(22)	01		AQC63A AQC64A 26 14A 24 13A	
XA205	TT3	B1	11A	CSE3KA	00	=	SHH,NMZ	
XA205	TT3	B1	14A	(20)	01		C132C0 CSE3L0 AMNMZ0 26 14A 24 13A 22 12A	
XA204	TQ2	B2	09A	CSE3L0	00	=	AQ16=AQ17	
XA204	TQ2	B2	11A	(14)	01		AQC66A AQC67A 20 11A 18 10A	

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XA203	TS8	D1	25B	CSE4CA	00	=	SLC E504	
XA203	TS8	D1	26A	(47)	01		CX15C0 SPA025 SPA065 CS0EHO CS0500 CS04P0 CKZRCA SPA064 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA305	TQ2	B1	12A	CSFOCA	00	=	SLC QUAL	ACZR
XA305	TQ2	B1	14A	(22)	01		CI66C0 CE04C0 26 14A 24 13A	
XA206	TQ2	B2	09A	CSFODA	00	=	SLC F500	KEX INSTR
XA206	TQ2	B2	11A	(14)	01		C066C0 CE02C0 20 11A 18 10A	
XA206	TQ2	B3	10B	CSL1CA	00	=		
XA206	TQ2	B3	08B	(21)	01		SPA026 CSL1C0 17 08B 19 09B	
XA203	TS8	E1	31B	CSL1C0	00	=	SLC L700	FROM LG
XA203	TS8	E1	33A	(59)	01		CSL7DA CSL1JA CSL1DA CSL1EA CSL1HA CSL1FA SPA064 CSL1GA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA206	TQ2	B4	13B	CSL1DA	00	=	E1.DEX	
XA206	TQ2	B4	11B	(27)	01		CI70C0 CE01C0 23 11B 25 12B	
XA207	TD4	B1	11B	CSL1EA	00	=	E5.TOR.MASP.ACZR	
XA207	TD4	B1	14A	(23)	01		MMASPO ACZRCO C133C0 CE05C0 26 14A 24 13A 22 12A 25 12B	
XA205	TT3	B2	09B	CSL1FA	00	=	F12.TXP.AY16*	
XA205	TT3	B2	10A	(19)	01		AY16BP CE12C0 C074C0 18 10A 14 09A 17 08B	
XA207	TD4	B2	10B	CSL1GA	00	=	E12.TCP.AY18*.AY16*	
XA207	TD4	B2	11A	(21)	01		C174C0 AY16BP AY18BP CE12C0 20 11A 18 10A 14 09A 19 09B	
XA205	TT3	B3	13B	CSL1HA	00	=	E17.TCP.AQ16*	
XA205	TT3	B3	10B	(27)	01		CE17C0 C174C0 AQ16BP 21 10B 23 11B 25 12B	
XA205	TT3	C1	17A	CSL1JA	00	=	F12.TIF.AY16*	
XA205	TT3	C1	20A	(36)	01		C075C0 AY16BP CE12C0 42 20A 40 19A 38 18A	
XA206	TQ2	E1	31A	CSL1KA	00	=	SLC L100	UNLOAD
XA206	TQ2	E1	33A	(66)	01		SPA027 CSL1C0 70 33A 68 32A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA205	TT3	F2	35B	CSL1MA	00	=		
XA205	TT3	F2	36A	(74)	01		C100C0 AY17BQ CE01D0 71 36A 72 34A 65 34B	
XA333	TLD	E4	33B	CSL1MD4	00	=		
XA333	TLD	E4	31B	(63)	01		CSL1M0 SPI028 59 31B 61 32B	
XA211	TQ2	A4	07B	CSL1M0	00	=		
XA211	TQ2	A4	05B	(15)	01		CSL1MA SPI020 11 05B 13 06B	
XA206	TQ2	E2	28A	CSL2CA	00	=		S/LC L200/S/LC L300/S/LC L301
XA206	TQ2	E2	30A	(60)	01		SPA027 CSL2C0 64 30A 62 29A	
XA203	TS8	F1	37A	CSL2C0	00	=		
XA203	TS8	F1	39B	(76)	01		CSL31A CSL2FA CSL31A CSL2DA CSL2LA CSL2GA CSL3DA CSL3EA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA205	TT3	C2	15B	CSL2DA	00	=		S/LC L200
XA205	TT3	C2	16A	(31)	01		CE12C0 AY16BQ CSL2E0 34 16A 30 15A 29 14B	
XA204	TQ2	C1	18A	CSL2E0	00	=		TXP/TIE
XA204	TQ2	C1	20A	(38)	01		C074CA C075CA 42 20A 40 19A	
XA207	TD4	C1	17B	CSL2FA	00	=		S/LC L200
XA207	TD4	C1	20A	(35)	01		CE12C0 C174C0 AY18BP AY16BQ 42 20A 40 19A 38 18A 37 18B	
XA205	TT3	C3	19B	CSL2GA	00	=		S/LC L200
XA205	TT3	C3	16B	(39)	01		CE17C0 AQ16BQ C174C0 33 16B 35 17B 37 18B	
XA206	TQ2	E3	30B	CSL2KA	00	=		S/LC L200/S/LC L300 UNLOAD
XA206	TQ2	E3	28B	(57)	01		SPA027 CSL2C0 53 28B 55 29B	
XA205	TT3	D1	23A	CSL2LA	00	=		S/LC L200
XA205	TT3	D1	26A	(50)	01		C170CA C133CA CG15C0 56 26A 54 25A 52 24A	
XA204	TQ2	F3	35A	CSL2TA	00	=		(S/LC L200/L300) (S/LC L301)*
XA204	TQ2	F3	34B	(69)	01		CSL31A CSL2C0 65 34B 74 35B	



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CONNECTOR	CIRCUIT POINT	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA204	TQ2	C2	15A		CSL3CA	00	=		
XA204	TQ2	C2	17A	(30)		01		CSL3C0 SPA065 36 17A 34 16A	
XA207	TD4	C2	16B		CSL3C0	00	=		SLC L300/SLC L301
XA207	TD4	C2	17A	(33)		01		CSL3LA CSL31A CSL3DA CSL3EA 36 17A 34 16A 30 15A 31 15B	
XA204	TQ2	C3	16B		CSL3DA	00	=		SLC L300
XA204	TQ2	C3	14B	(33)		01		CE02C0 C170C0 29 14B 31 15B	
XA204	TQ2	C4	19B		CSL3EA	00	=		SLC L300
XA204	TQ2	C4	17B	(39)		01		CG15C0 C133C0 35 17B 37 18B	
XA204	TQ2	D1	24A		CSL3LA	00	=		SLC L300
XA204	TQ2	D1	26A	(52)		01		CSL3M0 CG25C0 56 26A 54 25A	
XA204	TQ2	D2	21A		CSL3MA	00	=		TCPN,EXIT*
XA204	TQ2	D2	23A	(46)		01		CR01BP C174C0 50 23A 48 22A	
XA206	TQ2	C1	18A		CSL3M0	00	=		
XA206	TQ2	C1	20A	(38)		01		SPA027 CSL3MA 42 20A 40 19A	
XA206	TQ2	C4	19B		CSL31A	00	=		SLC L301
XA206	TQ2	C4	17B	(39)		01		CSL4M0 CG37C0 35 17B 37 18B	
XA206	TQ2	C2	15A		CSL4CA	00	=		SLC L400
XA206	TQ2	C2	17A	(30)		01		SPA026 CSL4C0 36 17A 34 16A	
XA204	TQ2	B4	13B		CSL4C0	00	=		SLC L400
XA204	TQ2	B4	11B	(27)		01		CSL4DA CSL4LA 23 11B 25 12B	
XA206	TQ2	C3	16B		CSL4DA	00	=		SLC L400
XA206	TQ2	C3	14B	(33)		01		CSL3MA CG25C0 29 14B 31 15B	
XA205	TT3	D2	23B		CSL4LA	00	=		SLC L400
XA205	TT3	D2	22A	(43)		01		CSL4MA PTLCNO CG37C0 48 22A 46 21A 41 22B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM.	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA206	TQ2	D1	24A		CSL4MA	00			
XA206	TQ2	D1	26A		(52)	01		ACZRCA CKZRCA 56 26A 54 25A	ACZR,CKZR*
XA204	TQ2	D3	24B		CSL4M0	00	=		
XA204	TQ2	D3	22B		(45)	01		CSL4MA SPA025 41 22B 43 23B	
XA204	TQ2	D4	27B		CSL4TA	00	=		
XA204	TQ2	D4	25B		(51)	01		CSL4T0 SPA025 47 25B 49 26B	SIC L400/L500
XA207	TD4	D1	25B		CSL4T0	00	=		
XA207	TD4	D1	26A		(47)	01		EST2CA ET17CA CSL4CA CSL65A 56 26A 54 25A 52 24A 49 26B	SIC L4/L5
XA204	TQ2	E2	28A		CSL4VA	00	=		
XA204	TQ2	E2	30A		(60)	01		SPA026 CSL4V0 64 30A 62 29A	SIC L400/L401/L500/L600/L602/
XA202	TS8	B1	11B		CSL4V0	00	=		
XA202	TS8	B1	14A		(23)	01		CSL41A CSL5CA CSL7CA CSL62A SPA063 EST2CA CSL4CA CSL6CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	SIC L4/L41/L15/L16/L62/L17
XA204	TQ2	E3	30B		CSL4WA	00	=		
XA204	TQ2	E3	28B		(57)	01		CSL4W0 SPA025 53 28B 55 29B	SIC L400/L401/L500/L600/L700
XA202	TS8	C1	17B		CSL4W0	00	=		
XA202	TS8	C1	20A		(35)	01		CSL4CA CSL6CA CSL41A SPA065 SPA064 SPA063 CSL5CA CSL7CA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	SIC L4/L41/L15/L16/L17
XA204	TQ2	E4	33B		CSL4XA	00	=		
XA204	TQ2	E4	31B		(63)	01		CSL4X0 SPA025 59 31B 61 32B	SIC L400/L500/L600/L700
XA202	TS8	D1	25B		CSL4X0	00	=		
XA202	TS8	D1	26A		(47)	01		CSL4CA CSL6CA SPA026 SPA025 SPA065 SPA064 CSL7CA CSL5CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	SIC L4/L15/L16/L17
XA206	TQ2	D4	27B		CSL41A	00	=		
XA206	TQ2	D4	25B		(51)	01		CKZRCA CG43C0 47 25B 49 26B	SIC L401
XA205	TT3	D3	27B		CSL5CA	00	=		
XA205	TY3	D3	24B		(51)	01		CG43C0 CKZRCA CR00BP 45 24B 47 25B 49 26B	SIC L500

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM DESIGNATION	FACTOR	COMMENT
XA206	TQ2	D3	24B	CSL6CA	00 =	SLC L600	
XA206	TQ2	D3	22B	(45)	01	SPA027 CSL6C0 41 22B 43 23B	
XA204	TQ2	F2	34A	CSL6C0	00 =	L503/T17	
XA204	TQ2	F2	36B	(72)	01	CG53CA ET17CA 73 36B 71 36A	
XA205	TT3	E1	30A	CSL62A	00 =	SLC L602	
XA205	TT3	E1	33A	(64)	01	SPY023 CK00BQ CG64C0 70 33A 68 32A 66 31A	
XA206	TQ2	D2	21A	CSL65A	00 =	SLC L605	
XA206	TQ2	D2	23A	(46)	01	CG67C0 CKZ1CA 50 23A 48 22A	
XA207	TD4	E1	31B	CSL7CA	00 =	SLC L700	
XA207	TD4	E1	33A	(59)	01	CR00BQ CG43C0 CKZRC0 SPA026 70 33A 68 32A 66 31A 61 32B	
XA132	TT3	E3	33B	CSL7DA	00 =		
XA132	TT3	E3	30B	(63)	01	CG67C0 CKZ1CA CR00BQ 57 30B 59 31B 61 32B	
XA415	TQ2	F3	35A	CSPINO	00 =	SEMIPRIVILEGED INSTRUCTION	
XA415	TQ2	F3	34B	(69)	01	CX75CA C173CA 65 34B 74 35B	
XA204	TQ2	F4	39A	CSRS1A	00 =	SET CS0107.12- ASYNCH	
XA204	TQ2	F4	37A	(80)	01	CSRS10 SPA026 76 37A 78 38A	
XA205	TT3	E3	33B	CSRS10	00 =	ENTER BTSP/ENTR ACHK/M RST	
XA205	TT3	E3	30B	(63)	01	ES0TRA J1RES0 CS0BRA 57 30B 59 31B 61 32B	
XA212	TD4	A1	05B	CSX1CA	00 =	DECODE L1 STATE	
XA212	TD4	A1	07A	(11)	01	CS10BP CS12BQ CS11BP CS0LC0 10 07A 08 06A 06 05A 13 06B	
XA212	TD4	A2	04B	CSX2CA	00 =	L2	
XA212	TD4	A2	04A	(09)	01	CS0LC0 CS10BP CS12BP CS11BQ 04 04A 05 03B 01 02B 07 03A	
XA212	TD4	B1	11B	CSX3CA	00 =	L3	
XA212	TD4	B1	14A	(23)	01	CS11BQ CS10BP CS0LC0 CS12BQ 26 14A 24 13A 22 12A 25 12B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG. PREFIX	FACTOR	COMMENT
XA212	TD4	B2	10B	CSX4CA	00	=		
XA212	TD4	B2	11A	(21)	01		CS118P CS128P CS108Q CSOLCO 20 11A 18 10A 14 09A 19 09B	L4
XA207	TD4	E2	30B	CSX5CA	00	=		
XA207	TD4	E2	30A	(57)	01		CS109Q CSOLCO CS128Q CS118P 64 30A 62 29A 60 28A 55 29B	L5
XA207	TD4	F1	37A	CSX6CA	00	=		
XA207	TD4	F1	39B	(76)	01		CS128P CS118Q CS108Q CSOLCO 79 39B 77 38B 75 37B 78 38A	L6
XA207	TD4	F2	35A	CSX7CA	00	=		
XA207	TD4	F2	36B	(69)	01		CSOLCO CS118Q CS128Q CS108Q 73 36B 71 36A 72 34A 74 35B	
				CS08BI	00	=		
XA215	TDD	J1	32A	( )	01		CS0890 68 32A	
				CS08BN	00	=		
XA215	TDD	JN	33A	( )	01		CRCPXA 70 33A	
XA215	TDD	JP	31B	CS08BP	00	=		
XA215	TDD	JP	31A	(59)	01		J1RES0 66 31A	ST CTR MASTER RESET TO L601
XA215	TDD	JQ	32B	CS08BQ	00	=		
XA215	TDD	JQ	33B	(61)	01		CS08SA 63 33B	BTSP START SELECTS L600
XA217	TT3	F2	35B	CS08RA	00	=		
XA217	TT3	F2	36A	(74)	01		JBSTAO ES0TBP JS77A0 71 36A 72 34A 65 34B	BTSP RESET CS.PT
XA205	TT3	F1	36B	CS08SA	00	=		
XA205	TT3	F1	39B	(73)	01		CT04BQ CRUNBP JBSTAO 79 39B 77 38B 75 37B	
XA206	TQ2	F2	34A	CS081A	00	=		
XA206	TQ2	F2	36B	(72)	01		CS08BQ CSX4CA 73 36B 71 36A	HOLD BTSP UNTIL L4
XA206	TQ2	F3	35A	CS082A	00	=		
XA206	TQ2	F3	34B	(69)	01		JBSTAO CRUSBP 65 34B 74 35B	SET BTSP

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA212	TD4	D1	25B	CS0B90	00	=		SET BTSP DATA IN
XA212	TD4	D1	26A	(47)	01		SPA033 CS0B1A SPA020 CS0B2A 56 26A 54 25A 52 24A 49 26B	
				CS0EBI	00	=		
XA215	TDD	KI	29A	( )	01		CS0E90 62 29A	
				CS0EBN	00	=		
XA215	TDD	KN	28A	( )	01		CSCPAB 60 28A	GATED CLK- STATE COUNT ER
XA215	TDD	KP	30B	CS0EBP	00	=		
XA215	TDD	KP	30A	(57)	01		CSRS1A 64 30A	
XA215	TDD	KQ	29B	CS0EBQ	00	=		
XA215	TDD	KQ	28B	(55)	01		SPA034 53 28B	
XA211	TQ2	B1	12A	CS0E00	00	=		UNLOAD CS0EBQ- EXE STATE
XA211	TQ2	B1	14A	(22)	01		CS0EBP SPA030 26 14A 24 13A	
XA211	TQ2	B2	09A	CS0E00	00	=		UNLOAD CS0EBQ- EXE STATE
XA211	TQ2	B2	11A	(14)	01		SPA030 CS0EBP 20 11A 18 10A	
XA211	TQ2	B3	10B	CS0E00	00	=		CS0EBQ UNLOAD
XA211	TQ2	B3	08B	(21)	01		SPA030 CS0EBP 17 08B 19 09B	
XA211	TQ2	B4	13B	CS0E00	00	=		CS0EBQ UNLOAD
XA211	TQ2	B4	11B	(27)	01		SPA030 CS0EBP 23 11B 25 12B	
XA211	TQ2	C1	18A	CS0E00	00	=		CS0EBQ UNLOAD
XA211	TQ2	C1	20A	(38)	01		SPA031 CS0EBP 42 20A 40 19A	
XA211	TQ2	C2	15A	CS0E00	00	=		CS0EBQ UNLOAD
XA211	TQ2	C2	17A	(30)	01		CS0EBP SPA031 36 17A 34 16A	
XA218	TSB	F1	37A	CS0E1A	00	=		HOLD EXECUTION STATE
XA218	TSB	F1	39B	(76)	01		CS0EBQ CTERMA CSF0DA SPA038 CSFOCA SPA037 CSL2CA CSL1CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	

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CONNECTOR	CPCN TYPE	POINT	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA208	TS8	D1	25B	CS0E90	00	=		SET EXECUTION STATE
XA208	TS8	D1	26A	(47)	01		CS0E1A CSE0CA CSECBQ CSE0FA CSE0EA CFO6CA CSE2EA SPA028 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
				CS0FBI	00	=		
XA215	TDD	LI	38B	( )	01		CS0F90 77 38B	
				CS0FBN	00	=		
XA215	TDD	LN	39B	( )	01		CSCPAB 79 39B	GATED CLK- STATE COUNT ER
XA215	TDD	LP	37A	CS0FBP	00	=		
XA215	TDD	LP	37B	(76)	01		CSRS1A 75 37B	
XA215	TDD	LQ	38A	CS0FBQ	00	=		
XA215	TDD	LQ	39A	(78)	01		SPA034 80 39A	
XA211	TQ2	C4	19B	CS0FC0	00	=		UNLOAD CS0FBQ-FETCH STATE
XA211	TQ2	C4	17B	(39)	01		SPA031 CS0FBP 35 17B 37 18B	
XA212	TD4	D2	24B	CS0F1A	00	=		HOLD FETCH STATE
XA212	TD4	D2	23A	(45)	01		CS0FBQ CSECBQ CSE0VA CTERMA 50 23A 48 22A 46 21A 43 23B	
XA208	TS8	E1	31B	CS0F90	00	=		SET FETCH STATE
XA208	TS8	E1	33A	(59)	01		CTEP4A CTEP3A CTEP6A SPA031 CSF0DA CS0F1A CSFOCA SPA029 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
				CS0LBI	00	=		
XA215	TDD	MI	36A	( )	01		CS0L90 71 36A	
				CS0LBN	00	=		
XA215	TDD	MN	34A	( )	01		CSCPAB 72 34A	GATED CLK- STATE COUNT ER
XA215	TDD	MP	35A	CS0LBP	00	=		
XA215	TDD	MP	36B	(69)	01		ESOTRA 73 36B	
XA215	TDD	MQ	35B	CS0LBQ	00	=		
XA215	TDD	MQ	34B	(74)	01		CS0LSA 65 34B	

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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA211	TQ2	C3 16B	CSOLCO	00 =			
XA211	TQ2	C3 14B	(33)	01		CS0LBP SPA031 29 14B 31 15B	UNLOAD CS0FBQ- LEV CHNG ST
XA217	TT3	E2 29B	CSOLSA	00 =			
XA217	TT3	E2 29A	(55)	01		SPA036 SPA035 CS0LSO 62 29A 60 28A 53 28B	SET L600/L601- ASYNCH
XA206	TQ2	F1 37B	CS0LSO	00 =			
XA206	TQ2	F1 39B	(75)	01		JIRESD CS0BRA 79 39B 77 38B	ENTER BISP/ MASTER RESET
XA212	TD4	C2 16B	CS0L1A	00 =			
XA212	TD4	C2 17A	(33)	01		CTERMA CSE2EA CS0LBQ SPA032 36 17A 34 16A 30 15A 31 15B	HOLD LEVEL CHANGE STATE
XA208	TS8	F1 37A	CS0L9D	00 =			
XA208	TS8	F1 39B	(76)	01		SPA028 CS0L1A CTEP5A CTEP2A CSL1CA CSL2CA ET17CA CTEP1A 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	SET LEVEL CHANGE STATE
			CS00BI	00 =			
XA213	TDD	A1 06A	( )	01		CS0090 08 06A	
			CS00BN	00 =			
XA213	TDD	AN 07A	( )	01		CSCPAB 10 07A	GATED CLK- STATE COUNT ER
XA213	TDD	AP 05B	CS00BP	00 =			
XA213	TDD	AP 05A	(11)	01		JIRESD 06 05A	
XA213	TDD	AQ 06B	CS00BQ	00 =			
XA213	TDD	AQ 07B	(13)	01		CS00RA 15 07B	
XA211	TQ2	D1 24A	CS00RA	00 =			
XA211	TQ2	D1 26A	(52)	01		CS0BBQ JS77A0 56 26A 54 25A	SET CS00- ASYNCH
XA210	TS8	A1 05B	CS0090	00 =			
XA210	TS8	A1 07A	(11)	01		CSL1KA CSECBQ CSE0VA CSL2TA CSL4XA CS07BQ SPA029 CTERKA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	SET CS00
			CS01BI	00 =			
XA213	TDD	B1 03B	( )	01		CS0190 05 03B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA213	TDD	BN	02B	CS01BN ( )	00 =		CSCPAB 01 02B	GATED CLK- STATE COUNTER
XA213	TDD	BP	04B	CS01BP (09 )	00 =		SPA033 04 04A	
XA213	TDD	BP	04A		01			
XA213	TDD	BQ	03A	CS01BQ (07 )	00 =		CSRS1A 03 02A	
XA213	TDD	BQ	02A		01			
XA222	TQ2	E1	31A	CS01P0 (66 )	00 =		SPA041 CS01BQ 70 33A 68 32A	CS01BP UNLOAD
XA222	TQ2	E1	33A		01			
XA211	TQ2	D2	21A	CS01Q0 (46 )	00 =		SPA031 CS01BP 50 23A 48 22A	CS01BQ UNLOAD
XA211	TQ2	D2	23A		01			
XA210	TS8	B1	11B	CS0190 (23 )	00 =		CSECBQ CSL2KA CSL4WA SPA030 CTERKA CS00BP CSLIKA CSEOVA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	SET CS01
XA210	TS8	B1	14A		01			
				CS02BI ( )	00 =		CS0290 24 13A	
XA213	TDD	CI	13A		01			
				CS02BN ( )	00 =		CSCPAB 26 14A	GATED CLK- STATE COUNTER
XA213	TDD	CN	14A		01			
XA213	TDD	CP	11B	CS02BP (23 )	00 =		SPA033 22 12A	
XA213	TDD	CP	12A		01			
XA213	TDD	CQ	12B	CS02BQ (25 )	00 =		CSRS1A 27 13B	
XA213	TDD	CQ	13B		01			
XA211	TQ2	D3	24B	CS02L0 (45 )	00 =		CS02BQ SPA031 41 22B 43 23B	CS02BP UNLOAD
XA211	TQ2	D3	22B		01			
XA222	TQ2	E2	28A	CS02P0 (60 )	00 =		CS02BQ SPA040 64 30A 62 29A	CS02BP UNLOAD
XA222	TQ2	E2	30A		01			



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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERMINAL	DESIGNATOR	FACTOR	COMMENT
XA222	TQ2	E3 30B	CS02Q0	00 =			
XA222	TQ2	E3 28B	(57)	01		CS02BP SPA040 53 28B 55 29B	CS02BQ UNLOAD
XA210	TS8	C1 17B	CS0290	00 =			SET CS02
XA210	TS8	C1 20A	(35)	01		CSL1KA CSL4VA CTERKA CSE2CA CS01BP CSE0UA CSECBO CSL2KA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA213	TDD	D1 10A	CS03BI	00 =			
			( )	01		CS0390 18 10A	
XA213	TDD	DN 09A	CS03BN	00 =			
			( )	01		CSCPAB 14 09A	GATED CLK- STATE COUNTER
XA213	TDD	DP 10B	CS03BP	00 =			
XA213	TDD	DP 11A	(21)	01		SPA033 20 11A	
XA213	TDD	DQ 09B	CS03BQ	00 =			
XA213	TDD	DQ 08B	(19)	01		CSRS1A 17 08B	
XA211	TQ2	D4 27B	CS03H0	00 =			
XA211	TQ2	D4 25B	(51)	01		SPA031 CS03BP 47 25B 49 26B	CS03BQ UNLOAD
XA222	TQ2	E4 33B	CS03L0	00 =			
XA222	TQ2	E4 31B	(63)	01		CS03BQ SPA040 59 31B 61 32B	CS03BP UNLOAD
XA222	TQ2	F1 37B	CS03P0	00 =			
XA222	TQ2	F1 39B	(75)	01		CS03BQ SPA041 79 39B 77 38B	CS03BP UNLOAD
XA222	TQ2	F2 34A	CS03Q0	00 =			
XA222	TQ2	F2 36B	(72)	01		SPA041 CS03BP 73 36B 71 36A	CS03BQ UNLOAD
XA210	TS8	D1 25B	CS0390	00 =			SET CS03
XA210	TS8	D1 26A	(47)	01		CSL1KA CTERKA CSL4VA CS02BP CSE3CA CSE2CA CSE0TA CSL2KA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA213	TDD	E1 19A	CS04BI	00 =			
			( )	01		CS0490 40 19A	

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CONNECTOR	SCHE TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERI	DESIG- NATOR	FACTOR	COMMENT
XA213	TDD	EN	20A	CS04BN ( )	00	=	CSCPAB 42 20A	GATED CLK- STATE COUNT ER
XA213	TDD	EP	17B	CS04BP (35 )	00	=	SPA033 38 18A	
XA213	TDD	EP	18A		01			
XA213	TDD	EQ	18B	CS04BQ (37 )	00	=	CSRS1A 39 19B	
XA213	TDD	EQ	19B		01			
XA222	TQ2	F3	35A	CS04HO (69 )	00	=	SPA040 CS04BP 65 34B 74 35B	CS04BQ UNLOAD
XA222	TQ2	F3	34B		01			
XA222	TQ2	F4	39A	CS04PO (80 )	00	=	CS04BQ SPA041 76 37A 78 38A	CS04BP UNLOAD
XA222	TQ2	F4	37A		01			
XA223	TQ2	F4	39A	CS04QO (80 )	00	=	CS04BP SPA041 76 37A 78 38A	CS04BQ UNLOAD
XA223	TQ2	F4	37A		01			
XA210	TS8	E1	31B	CS0490 (59 )	00	=	CS03BP CSL4VA CSE0TA CTERKA CSLIKA CSE4CA CSL2KA SPA030 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	SET CS04
XA210	TS8	E1	33A		01			
				CS05BI ( )	00	=	CS0590 34 16A	
XA213	TDD	FI	16A		01			
				CS05BN ( )	00	=	CSCPAB 30 15A	GATED CLK- STATE COUNT ER
XA213	TDD	FN	15A		01			
XA213	TDD	FP	16B	CS05BP (33 )	00	=	SPA033 36 17A	
XA213	TDD	FP	17A		01			
XA213	TDD	FQ	15B	CS05BQ (31 )	00	=	CSRS1A 29 14B	
XA213	TDD	FQ	14B		01			
XA211	TQ2	E1	31A	CS05PO (66 )	00	=	SPA032 CS05BQ 70 33A 68 32A	CS05BP UNLOAD
XA211	TQ2	E1	33A		01			

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA211	TQ2	E2	28A	CS05Q0	00	=		
XA211	TQ2	E2	30A	(60)	01		SPA032 CS05BP 64 30A 62 29A	CS05BQ UNLOAD
XA209	TS8	A1	05B	CS0590	00	=		
XA209	TS8	A1	07A	(11)	01		CSE0TA CSL2KA CSL4TA CSE4CA CS04BP CSL1KA CTERKA SPA028 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	SET CS05
XA213	TDD	G1	25A	CS06BI	00	=		
XA213	TDD	G1		( )	01		CS0690 54 25A	
XA213	TDD	GN	26A	CS06BN	00	=		
XA213	TDD	GN		( )	01		CSCPAB 56 26A	GATED CLK- STATE COUNT ER
XA213	TDD	GP	25B	CS06BP	00	=		
XA213	TDD	GP	24A	(47)	01		SPA033 52 24A	
XA213	TDD	GQ	26B	CS06BQ	00	=		
XA213	TDD	GQ	27B	(49)	01		CSRS1A 51 27B	
XA211	TQ2	E3	30B	CS06Q0	00	=		
XA211	TQ2	E3	28B	(57)	01		CS06BP SPA032 53 28B 55 29B	CS06BQ UNLOAD
XA209	TS8	B1	11B	CS0690	00	=		
XA209	TS8	B1	14A	(23)	01		CSE0TA CSL1KA CTERKA CS05BP SPA028 CSL2KA CSL4TA SPA029 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	SET CS06
XA213	TDD	H1	22A	CS07BI	00	=		
XA213	TDD	H1		( )	01		CS0790 48 22A	
XA213	TDD	HN	21A	CS07BN	00	=		
XA213	TDD	HN		( )	01		CSCPAB 46 21A	GATED CLK- STATE COUNT ER
XA213	TDD	HP	24B	CS07BP	00	=		
XA213	TDD	HP	23A	(45)	01		SPA033 50 23A	
XA213	TDD	HQ	23B	CS07BQ	00	=		
XA213	TDD	HQ	22B	(43)	01		CSRS1A 41 22B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA206	TQ2	E4	33B	CS07P0	00	=		
XA206	TQ2	E4	31B	(63)	01		CS07Q0 SPI020 59 31B 61 32B	
XA211	TQ2	E4	33B	CS07Q0	00	=		CS07BQ UNLOAD
XA211	TQ2	E4	31B	(63)	01		CS07BP SPA032 59 31B 61 32B	
XA209	TS8	C1	17B	CS0790	00	=		SET CS07
XA209	TS8	C1	20A	(35)	01		SPA029 CS06BP CSL2KA CSE0TA CTERKA CSL1KA CSL4TA SPA028 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
				CS10BI	00	=		
XA213	TDD	J1	32A	( )	01		CS1090 68 32A	
				CS10BN	00	=		
XA213	TDD	JN	33A	( )	01		CSCPAB 70 33A	GATED CLK- STATE COUNT ER
XA213	TDD	JP	31B	CS10BP	00	=		
XA213	TDD	JP	31A	(59)	01		ESOTRA 66 31A	
XA213	TDD	JQ	32B	CS10BQ	00	=		
XA213	TDD	JQ	33B	(61)	01		CSOLSA 63 33B	
XA217	TI3	F1	36B	CS101A	00	=		HOLD CS10
XA217	TI3	F1	39B	(73)	01		CS10BQ SPA035 CTERMA 79 39B 77 38B 75 37B	
XA209	TS8	D1	25B	CS1090	00	=		SET CS10
XA209	TS8	D1	26A	(47)	01		ET17CA CTEP1A CS101A CSL4CA SPA030 SPA029 SPA028 CSL6CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
				CS11BI	00	=		
XA213	TDD	KI	29A	( )	01		CS1190 62 29A	
				CS11BN	00	=		
XA213	TDD	KN	28A	( )	01		CSCPAB 60 28A	GATED CLK- STATE COUNT ER
XA213	TDD	KP	30B	CS11BP	00	=		
XA213	TDD	KP	30A	(57)	01		ESOTRA 64 30A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESIGNATOR	FACTOR	COMMENT
XA213	TDD	KQ	29B	CS11BQ	00	=		
XA213	TDD	KQ	28B	(55)	01		CS0LSA 53 28B	
XA211	TQ2	F1	37B	CS11Q0	00	=		CS11BQ UNLOAD
XA211	TQ2	F1	39B	(75)	01		SPA032 CS11BP 79 39B 77 38B	
XA212	T04	C1	17B	CS111A	00	=		HOLD CS11
XA212	T04	C1	20A	(35)	01		CSL4CA CTERMA CS11BQ SPA032 42 20A 40 19A 38 18A 37 18B	
XA209	TS8	E1	31B	CS1190	00	=		SET CS11
XA209	TS8	E1	33A	(59)	01		CTEP2A CTEP5A CSL7CA SPA028 CS111A CSL6CA ET17CA CSL2CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
				CS12BI	00	=		
XA213	TDD	LI	38B	( )	01		CS1290 77 38B	
				CS12BN	00	=		
XA213	TDD	LN	39B	( )	01		CSCPAB 79 39B	GATED CLK- STATE COUNT FR
XA213	TDD	LP	37A	CS12BP	00	=		
XA213	TDD	LP	37B	(76)	01		CSRS1A 75 37B	
XA213	TDD	LQ	38A	CS12BQ	00	=		
XA213	TDD	LQ	39A	(78)	01		SPA034 80 39A	
XA211	TQ2	F2	34A	CS12Q0	00	=		CS12BQ UNLOAD
XA211	TQ2	F2	36B	(72)	01		CS12BP SPA032 73 36B 71 36A	
XA210	TS8	F1	37A	CS121A	00	=		HOLD CS12
XA210	TS8	F1	39B	(76)	01		SPA031 CSL2CA SPA030 CS12BQ CSL4CA CTERMA CSE2EA CSL6CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA209	TS8	F1	37A	CS1290	00	=		SET CS12
XA209	TS8	F1	39B	(76)	01		SPA031 CSL7CA CS121A CSL1CA CSL5CA CSL3CA CTEP5A SPA030 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA342	TT3	E1	30A	CTEPCA	00	=		
XA342	TT3	E1	33A	(64)	01		CRO1SA CRO2SA CRO0BP 70 33A 68 32A 66 31A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA340	TQ2	A1	05A	CTEPCO	00	=		
XA340	TQ2	A1	07A	(06)	01		CTEPCA SPA098 10 07A 08 06A	PHRF*.EXIT*.TRAP* OPDI
XA340	TQ2	A2	02B	CTEP1A	00	=		
XA340	TQ2	A2	04A	(01)	01		CTERMO CRO0BQ 04 04A 05 03B	TERM SLC L400 PHRF
XA337	TD4	C1	17B	CTEP2A	00	=		
XA337	TD4	C1	20A	(35)	01		CRO0BP PLE2CA CTERMO CRO1SO 42 20A 40 19A 38 18A 37 18B	TERM SLC L200 ERROR_EXIT
XA346	TD4	C1	17B	CTEP3A	00	=		
XA346	TD4	C1	20A	(35)	01		CRO0BP CRO1SA CRO290 CTERMO 42 20A 40 19A 38 18A 37 18B	TERM SLC ES00 TRAP_EXIT
XA342	TT3	F2	35B	CTEP4A	00	=		
XA342	TT3	F2	36A	(74)	01		CTEPCO CRO3BQ CTERMO 71 36A 72 34A 65 34B	TERM SLC ES00 LEVEL_LOCK
XA338	TS8	D1	25B	CTEP5A	00	=		
XA338	TS8	D1	26A	(47)	01		CRO27A C173CA SPA095 CRO3BP CTERMO CTEPCO CRO23A CRO4BQ 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	TERM SLC L300 AUCTION
XA337	TD4	B2	10B	CTEP6A	00	=		
XA337	TD4	B2	11A	(21)	01		CTERMO CTEPCO CTEP5A CRO3BP 20 11A 18 10A 14 09A 19 09B	TERM SLC ES00
XA337	TD4	A1	05B	CTERKA	00	=		
XA337	TD4	A1	07A	(11)	01		CTERMO SPA095 SPA093 SPA094 10 07A 08 06A 06 05A 13 06B	SLC TERM UNLOAD
XA337	TD4	A2	04B	CTERMA	00	=		
XA337	TD4	A2	04A	(09)	01		CTERMO SPA094 SPA093 SPA095 04 04A 05 03B 01 02B 07 03A	SELECT TERMINATE, ST
XA339	TS8	A1	05B	CTERMO	00	=		
XA339	TS8	A1	07A	(11)	01		CTERIA CTER2A CTERNA SPA097 SPA098 SPA096 SPA099 CTERPA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA342	TT3	E3	33B	CTERNA	00	=		
XA342	TT3	E3	30B	(63)	01		CG37C0 CSL4MA PTLCNA 57 30B 59 31B 61 32B	ST AFTER AUCTION
XA337	TD4	B1	11B	CTERPA	00	=		
XA337	TD4	B1	14A	(23)	01		SPA094 SPA093 CG67C0 CKZ1C0 26 14A 24 13A 22 12A 25 12B	ST AFTER LEVEL CHANGE

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA337	TD4	E1	31B	CTER1A	00	=		ST AT E1/2/3/4/5/6/7/17
XA337	TD4	E1	33A	(59)	01		SPA096 SPA095 CTER10 SPA094 70 33A 68 32A 66 31A 61 32B	
XA338	TS8	C1	17B	CTER10	00	=		
XA338	TS8	C1	20A	(35)	01		CTESCA CTE6CA CTE7CA CTE5CA CTE2CA CTE4CA CTE1CA CTE3CA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA337	TD4	E2	30B	CTER2A	00	=		ST AT E 10/11/17
XA337	TD4	E2	30A	(57)	01		CTER20 SPA096 SPA095 SPA094 64 30A 62 29A 60 28A 55 29B	
XA346	TD4	E2	30B	CTER20	00	=		
XA346	TD4	E2	30A	(57)	01		CTE9CA CTE8CA SPA103 CTESCA 64 30A 62 29A 60 28A 55 29B	
XA337	TD4	F2	35A	CTESCA	00	=		ST AT E5/7 UNLESS TCPN
XA337	TD4	F2	36B	(69)	01		C174CA SPA094 SPA095 CE17CO 73 36B 71 36A 72 34A 74 35B	
XA337	TD4	F1	37A	CTE1CA	00	=		ST AT E5/7
XA337	TD4	F1	39B	(76)	01		CE01CO SPA094 CTE1DO SPA095 79 39B 77 38B 75 37B 78 38A	
XA346	TD4	E1	31B	CTE1DO	00	=		NOI/LLR/LLO/TRIN
XA346	TD4	E1	33A	(59)	01		CTE1EA C100CA C173CA C000CA 70 33A 68 32A 66 31A 61 32B	
XA341	TQ2	D4	27B	CTE1EA	00	=		
XA341	TQ2	D4	25B	(51)	01		SPA100 CTE1EO 47 25B 49 26B	
XA342	TT3	A2	03A	CTE1EO	00	=		
XA342	TT3	A2	03B	(07)	01		CTRINA EDC3CA EDC2CA 05 03B 01 02B 03 02A	
XA337	TD4	D2	24B	CTE2CA	00	=		ST AT E5/7
XA337	TD4	D2	23A	(45)	01		SPA094 CE02CO CTE2DO SPA093 50 23A 48 22A 46 21A 43 23B	
XA338	TS8	A1	05B	CTE2DO	00	=		CM/CLF/CLH/TO/AN/EO/LD/LM/SM/
XA338	TS8	A1	07A	(11)	01		CTE2EA C308LA C308MA CX44CA CTE2GA CTE2FA C072CA C070CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA340	TQ2	A4	07B	CTE2EA	00	=		LD
XA340	TQ2	A4	05B	(15)	01		SPA098 CTE2EO 11 05B 13 06B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	GROUP	FACTOR	COMMENT
XA338	TS8	E1	31B	CTE2EO	00	=		LDE/LDH/LDI/LDI
XA338	TS8	E1	33A	(59)	01		CX40CA SPA100 SPA099 SPA098 SPA097 CX41CA SPA095 SPA096 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA340	TQ2	A3	04B	CTE2FA	00	=		SD/MZ
XA340	TQ2	A3	02A	(09)	01		SPA097 CTE2FO 03 02A 07 03A	
XA338	TS8	F1	37A	CTE2FO	00	=		SDE/SDH/MZF/MZH
XA338	TS8	F1	39B	(76)	01		CX47CA SPA100 SPA099 SPA098 SPA096 SPA097 CX46CA SPA101 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA337	TD4	D1	25B	CTE2GA	00	=		XA
XA337	TD4	D1	26A	(47)	01		SPA095 SPA094 CTE2GO SPA093 56 26A 54 25A 52 24A 49 26B	
XA339	TS8	B1	11B	CTE2GO	00	=		XER/XLK/XSN/XIN/XRF/XNF/
XA339	TS8	B1	14A	(23)	01		CX62CA CX63CA SPA098 C161CA SPA097 SPA096 CX60CA C061CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA340	TQ2	F4	39A	CTE3CA	00	=		ST AT ES03
XA340	TQ2	F4	37A	(80)	01		CTE3DO CE03CO 76 37A 78 38A	
XA338	TS8	B1	11B	CTE3DO	00	=		A/SBE/SBH/SL/RA/RS/CLU/CLL/
XA338	TS8	B1	14A	(23)	01		C306KA C200WA CTE3EA SPA095 C172CA C306GA CX21CA CX34CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA340	TQ2	B2	09A	CTE3EA	00	=		F2/F3
XA340	TQ2	B2	11A	(14)	01		SPA102 CTE3EO 20 11A 18 10A	
XA339	TS8	C1	17B	CTE3EO	00	=		LA/LC/SDU/SDI/MI/XD/XTO/XIT/
XA339	TS8	C1	20A	(35)	01		C200VA C203HA CX55CA SPA097 SPA096 CX71CA CX45CA CX67CA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA341	TQ2	F4	39A	CTE4CA	00	=		ST AT ES04
XA341	TQ2	F4	37A	(80)	01		CE04CO CTE4DO 76 37A 78 38A	
XA339	TS8	D1	25B	CTE4DO	00	=		SH COND/EX/SSE/MTB
XA339	TS8	D1	26A	(47)	01		CTE4EA SPA098 SPA097 SPA096 C157CA CX56CA SPI026 CTE4FA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA342	TT3	E2	29B	CTE4EA	00	=		SHE (IMZ*), SNC*, RFT*, SHE TOBL*
XA342	TT3	E2	29A	(55)	01		AY21BP AY22BP C032CO 62 29A 60 28A 53 28B	



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CONNECTOR	RECEPT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG- NATOR	FACTOR	COMMENT
XA340	TQ2	F3	35A	CTE4FA	00	=		
XA340	TQ2	F3	34B	(69)	01		AY21BP C132C0 65 34B 74 35B	SHH.(NMZ*.SNC*.RET*)
XA340	TQ2	F2	34A	CTE5CA	00	=		
XA340	TQ2	F2	36B	(72)	01		CTE5D0 CE05C0 73 36B 71 36A	ST AT ES05
XA339	TS8	E1	31B	CTE5D0	00	=		
XA339	TS8	E1	33A	(59)	01		C175CA CTE5EA SPA09B SPA097 C057CA CX14CA CX23CA SPA096 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	MP/CG/
XA340	TQ2	F1	37B	CTE5EA	00	=		
XA340	TQ2	F1	39B	(75)	01		CX32C0 CTE5FA 79 39B 77 38B	(SHF/SHH).(SHF NMZ)*
XA341	TQ2	F3	35A	CTE5FA	00	=		
XA341	TQ2	F3	34B	(69)	01		AMNMZ0 C032C0 65 34B 74 35B	SHF NMZ
XA340	TQ2	E4	33B	CTE6CA	00	=		
XA340	TQ2	E4	31B	(63)	01		CE06C0 CTE6D0 59 31B 61 32B	ST AT ES06
XA339	TS8	F1	37A	CTE6D0	00	=		
XA339	TS8	F1	39B	(76)	01		CX30CA CTE5FA SPA099 SPA098 SPA097 C133CA CX24CA SPA100 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	CS/FE/SHFNMZ/TOR
XA340	TQ2	E3	30B	CTE7CA	00	=		
XA340	TQ2	E3	28B	(57)	01		CE07C0 C033D0 53 28B 55 29B	ST AT ES07 IN RQE
XA340	TQ2	E2	28A	CTE8CA	00	=		
XA340	TQ2	E2	30A	(60)	01		CE10C0 CX31C0 64 30A 62 29A	ST AT ES10 IN FIF/FIH
XA340	TQ2	E1	31A	CTE9CA	00	=		
XA340	TQ2	E1	33A	(66)	01		CE11C0 CX15E0 70 33A 68 32A	ST AT ES11 IN DIF/DIH
				CTGMBI	00	=		
XA432	TDD	BI	03B	( )	01		CT04BQ 05 03B	
				CTGMBN	00	=		
XA432	TDD	BN	02B	( )	01		CTGMCA 01 02B	

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XA432	TDD	BP	04B	CTGMBP	00	=		
XA432	TDD	BP	04A	(09)	01		CRUNBQ 04 04A	
XA432	TDD	BQ	03A	CTGMBQ	00	=		GEN CLOCK FOR GR, MIC S-MEMS
XA432	TDD	BQ	02A	(07)	01		SPA131 03 02A	
XA342	TT3	B3	13B	CTGNCA	00	=		CLK FOR SETTING OF CTGMB
XA342	TY3	B3	10B	(27)	01		SPA104 CT8MHB SPA100 21 10B 23 11B 25 12B	
				CTGMCB	00	=		
XA342	TY3	D1	23A	( )	01		CTGMOA 50 23A	
XA342	TY3	D2	23B	( )	02	+	CTGM1A 43 23B	CTGM1A BUSS
XA342	TY3	D3	27B	( )	03	+	CTGM2A 51 27B	
				CTGMUB	00	=		
XA415	TQ2	D1	24A	( )	01		CTGM5A 52 24A	
XA415	TQ2	D2	21A	( )	02	+	CTGM6A 46 21A	
XA415	TQ2	D3	24B	( )	03	+	CTGM7A 45 24B	
XA342	TT3	D1	23A	CTGMOA	00	=		CTGMCB BUSS
XA342	TY3	D1	26A	(50)	01		SPA101 CT8MHB CTGMBQ 56 26A 54 25A 52 24A	
XA342	TT3	D2	23B	CTGM1A	00	=		CTGMCB BUSS
XA342	TY3	D2	22A	(43)	01		CT8MHB SPA101 CTGMBQ 48 22A 46 21A 41 22B	8 MHZ CLOCK BUS APOL
XA342	TT3	D3	27B	CTGM2A	00	=		CTGMCB BUSS
XA342	TY3	D3	24B	(51)	01		CT8MHB CTGMBQ SPA101 45 24B 47 25B 49 26B	8 MHZ CLOCK BUS APOL
XA415	TQ2	D1	24A	CTGM5A	00	=		CTGMUB BUSS
XA415	TQ2	D1	25A	(52)	01		UCLCKO URECVO 54 25A 56 26A	
XA415	TQ2	D2	21A	CTGM6A	00	=		CTGMUB BUSS
XA415	TQ2	D2	22A	(46)	01		UCLCKO URECVO 48 22A 50 23A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA415	TQ2	D3	24B	CTGM7A	00	=		
XA415	TQ2	D3	22B	(45)	01		UCLCKO URECVO 41 22B 43 23B	CTGMUB BUSS
				CTMCBI	00	=		
XA344	TDD	MI	36A	( )	01		SPI027 71 36A	
				CTMCBN	00	=		
XA344	TDD	MN	34A	( )	01		CTNT00 72 34A	
XA344	TDD	MP	35A	CTMCBP	00	=		
XA344	TDD	MP	36B	(69)	01		MC0610 73 36B	
XA344	TDD	MQ	35B	CTMCBQ	00	=		
XA344	TDD	MQ	34B	(74)	01		SPI031 65 34B	
XA341	TQ2	E4	33B	CTMPLO	00	=		
XA341	TQ2	E4	31B	(63)	01		CTMXBP CT08BP 59 31B 61 32B	DIF/DIH
				CTMWBI	00	=		
XA344	TDD	KI	29A	( )	01		CT0400 62 29A	
				CTMWBN	00	=		
XA344	TDD	KN	28A	( )	01		CT8MHB 60 28A	8 MHZ CLOCK BUS APOL
XA344	TDD	KP	30B	CTMWBP	00	=		
XA344	TDD	KP	30A	(57)	01		CRUNBQ 64 30A	
XA344	TDD	KQ	29B	CTMWBQ	00	=		
XA344	TDD	KQ	28B	(55)	01		SPI028 53 28B	
XA341	TQ2	E2	28A	CTMWRO	00	=		
XA341	TQ2	E2	30A	(60)	01		UMCLKB CTMWBP 64 30A 62 29A	MEMORY WRITE PULSE
				CTMXBI	00	=		
XA431	TDD	AI	06A	( )	01		CT08BQ 08 06A	

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CONNECTOR	CIRCUIT POINT	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA431	YDD	AN	07A	CTMXBN ( )	00 =			
					01	CTGMCA 10 07A		
XA431	TDD	AP	05B	CTMXBP (11)	00 =			
XA431	YDD	AP	05A		01	CRUNBQ 06 05A		
XA431	TDD	AQ	06B	CTMXBQ (13)	00 =	SPO		
XA431	YDD	AQ	07B		01	SPI038 15 07B		
				CTNCLB ( )	00 =			
XA346	TD4	A1	05B		01	CTNCOA 11 05B		N- GTD CLOCK BUSS
XA346	TD4	A2	04B		02 +	CTNCIA 09 04B		N- GTD CLOCK BUSS
XA346	TD4	A1	05B	CTNCOA (11)	00 =			
XA346	YD4	A1	07A		01	CT8MBQ SPA104 CRUNBQ CT02BQ 10 07A 08 06A 06 05A 13 06B	CTNCLB BUSS	
XA346	TD4	A2	04B	CTNCIA (09)	00 =			
XA346	YD4	A2	04A		01	CT8MBQ CT02BQ SPA104 CRUNBQ 04 04A 05 03B 01 02B 07 03A	CTNCLB BUSS	
XA348	TQ2	A2	02B	CTNK10 (01)	00 =			
XA348	YQ2	A2	03B		01	UCLCKB CTNCLB 05 03B 04 04A	CLOCKB BUSS	
XA348	TQ2	B2	09A	CTNK20 (14)	00 =			
XA348	YQ2	B2	10A		01	UCLCKB CTNCLB 18 10A 20 11A	CLOCKB BUSS	
XA348	TQ2	C2	15A	CTNK30 (30)	00 =			
XA348	YQ2	C2	16A		01	UCLCKB CTNCLB 34 16A 36 17A	CLOCKB BUSS	
XA348	TQ2	D3	24B	CTNK40 (45)	00 =			
XA348	YQ2	D3	23B		01	UCLCKB CTNCLB 43 23B 41 22B	CLOCKB BUSS	
XA348	TQ2	A1	05A	CTNL10 (06)	00 =			
XA348	YQ2	A1	06A		01	UCLCKB CTNCLB 08 06A 10 07A	CLOCKB BUSS	
XA348	TQ2	B3	10B	CTNL20 (21)	00 =			
XA348	YQ2	B3	09B		01	UCLCKB CTNCLB 19 09B 17 08B	CLOCKB BUSS	

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CONNECTOR	CAGE TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG- NATOR	FACTOR	COMMENT
XA348	TQ2	C3	16B	CTNL30	00	=		
XA348	TQ2	C3	15B	(33)	01		UCLCKB CTNCLB 31 15B 29 14B	CLOCLB BUSS
XA348	TQ2	D2	21A	CTNL40	00	=		
XA348	TQ2	D2	22A	(46)	01		UCLCKB CTNCLB 48 22A 50 23A	CLOCLB BUSS
XA348	TQ2	A3	04B	CTNM10	00	=		
XA348	TQ2	A3	03A	(09)	01		UCLCKB CTNCLB 07 03A 03 02A	CLOCMB BUSS
XA348	TQ2	B1	12A	CTNM20	00	=		
XA348	TQ2	B1	13A	(22)	01		UCLCKB CTNCLB 24 13A 26 14A	CLOCMB BUSS
XA348	TQ2	C1	18A	CTNM30	00	=		
XA348	TQ2	C1	19A	(38)	01		UCLCKB CTNCLB 40 19A 42 20A	CLOCMB BUSS
XA348	TQ2	D4	27B	CTNM40	00	=		
XA348	TQ2	D4	26B	(51)	01		UCLCKB CTNCLB 49 26B 47 25B	CLOCMB BUSS
XA348	TQ2	E3	30B	CTNT00	00	=		
XA348	TQ2	E3	28B	(57)	01		SPA102 CTNCLB 53 28B 55 29B	UNUSABLE SPARE
XA341	TQ2	E3	30B	CTRINA	00	=		
XA341	TQ2	E3	28B	(57)	01		SPA100 CTRINO 53 28B 55 29B	
XA346	TD4	F1	37A	CTRINO	00	=		
XA346	TD4	F1	39B	(76)	01		CX76CA CTRIQA CTRIPA CX77CA 79 39B 77 38B 75 37B 78 38A	TRAP INSTRUCTION CODE
XA342	TT3	F1	36B	CTRIPA	00	=		
XA342	TT3	F1	39B	(73)	01		CX0XA0 C100CA C000CA 79 39B 77 38B 75 37B	CODES CX01 THRU CX07
XA343	TS8	F1	37A	CTRIPA	00	=		
XA343	TS8	F1	39B	(76)	01		C057CA SPA104 SPA103 SPA102 CX56CA CX55CA C157CA CX5XA0 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	CODES CX50 THRU CX54
XA431	TDD	B1	03B	CTRJBI	00	=		
				( )	01		C512JA 05 03B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA431	TDD	BN	02B	CTRJBN ( )	00 =	01	CTRLBP 01 02B	
XA431	TDD	BP	04B	CTRJBSP (09 )	00 =	01	SPA134 04 04A	
XA431	TDD	BQ	03A	CTRJBQ (07 )	00 =	01	JACKCO 03 02A	
XA431	TDD	BQ	02A					
XA344	TDD	HI	22A	CTRLBI ( )	00 =	01	CTRLIO 48 22A	
XA344	TDD	HN	21A	CTRLBN ( )	00 =	01	CTNCLB 46 21A	8 MHZ CLOCK BUS APOL
XA344	TDD	HP	24B	CTRLBP (45 )	00 =	01	CTRLRA 50 23A	
XA344	TDD	HP	23A					
XA344	TDD	HQ	23B	CTRLBQ (43 )	00 =	01	SPIO28 41 22B	
XA344	TDD	HQ	22B					
XA317	TQ2	B1	12A	CTRLIA (22 )	00 =	01	CTRL90 PQ001A 26 14A 24 13A	FR CTS- MASTER RESET
XA317	TQ2	B1	14A					
XA311	TQ2	E1	31A	CTRLIO (66 )	00 =	01	CTRLIA SPI030 70 33A 68 32A	
XA311	TQ2	E1	33A					
XA340	TQ2	D4	27B	CTRLRA (51 )	00 =	01	CTRLRO CTRJBQ 47 25B 49 26B	ASYNCH RESET TO CTRL
XA340	TQ2	D4	25B					
XA342	YT3	C1	17A	CTRLRO (36 )	00 =	01	J1RESD CTRLYA JACKCA 42 20A 40 19A 38 18A	
XA342	YT3	C1	20A					
XA305	TQ2	E4	33B	CTRLXA (63 )	00 =	01	CTRLX0 SPA073 59 31B 61 32B	E10,ICP
XA305	TQ2	E4	31B					

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA311	TQ2	D3	24B		CTRLX0	00	=		BTR DBCK
XA311	TQ2	D3	22B		(145)	01		CTRL1A CRO1SA 41 22B 43 23B	
XA341	TQ2	F2	34A		CTRLYA	00	=		RST I/O CTRL
XA341	TQ2	F2	36B		(172)	01		CTRLY0 SPA100 73 36B 71 36A	
XA244	TT3	E2	29B		CTRLY0	00	=		ADD CONTROL DECODE - 0
XA244	TT3	E2	29A		(155)	01		CTRLXA JSTPAD4 CTRLZA 62 29A 60 28A 53 28B	
XA341	TQ2	F1	37B		CTRLZA	00	=		RST CTRL FOR BISP
XA341	TQ2	F1	39B		(175)	01		JBSTAO CS0BBP 79 39B 77 38B	
XA415	TQ2	D4	27B		CTRL1A	00	=		I/O STIM 107 + PLT
XA415	TQ2	D4	25B		(151)	01		JS02AO PLE2CA 47 25B 49 26B	
XA342	TT3	C3	19B		CTRL90	00	=		D-INPUT FOR IO CONTROL CTRL
XA342	TT3	C3	16B		(139)	01		C238DA C704CA SPA103 33 16B 35 17B 37 18B	
					CT02BI	00	=		
XA344	TDD	AI	06A		( )	01		CT02D0 08 06A	
					CT02BN	00	=		
XA344	TDD	AN	07A		( )	01		CT8MHB 10 07A	8 MHZ CLOCK BUS APOL
XA344	TDD	AP	05B		CT02BP	00	=		
XA344	TDD	AP	05A		(11)	01		SPA102 06 05A	
XA344	TDD	AQ	06B		CT02BQ	00	=		
XA344	TDD	AQ	07B		(13)	01		JIRESD 15 07B	
XA341	TQ2	A1	05A		CT02C0	00	=		UNLOAD CT02BQ
XA341	TQ2	A1	07A		(06)	01		SPA099 CT02BP 10 07A 08 06A	
XA341	TQ2	A2	02B		CT02D0	00	=		DATA INPUT
XA341	TQ2	A2	04A		(01)	01		CT02EA CT04BP 04 04A 05 03B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA337	TD4	C2	16B	CT02EA	00	=		SET 2 INTERVAL STATE
XA337	TD4	C2	17A	(33)	01		CT02C0 CT12BQ CT22BQ CT02F0 36 17A 34 16A 30 15A 31 15B	
XA346	TD4	C2	16B	CT02F0	00	=		ENTER 2 INTVL STATE.
XA346	TD4	C2	17A	(33)	01		CT02LA CT02JA CT02HA CT02GA 36 17A 34 16A 30 15A 31 15B	
XA341	TQ2	A3	04B	CT02GA	00	=		E3 (MPF/MPH)
XA341	TQ2	A3	02A	(09)	01		CE03F0 CX14C0 03 02A 07 03A	
XA244	TT3	E1	30A	CT02HA	00	=		
XA244	TT3	E1	33A	(64)	01		CE05C0 CX15C0 CK2RCA 70 33A 68 32A 66 31A	
XA341	TQ2	B1	12A	CT02JA	00	=		E2 ROE
XA341	TQ2	B1	14A	(22)	01		CE02C0 C033C0 26 14A 24 13A	
XA341	TQ2	B2	09A	CT02LA	00	=		(E2/E3) (ERMT/(SH,NM2*,SNC*))
XA341	TQ2	B2	11A	(14)	01		CT02N0 CE03F0 20 11A 18 10A	
XA341	TQ2	B3	10B	CT02NA	00	=		ERMT/(SHET,NM2*,SNC*)
XA341	TQ2	B3	08B	(21)	01		SPA099 CT02N0 17 08B 19 09B	
XA342	TT3	A1	04A	CT02N0	00	=		E1F/E1H/E2E/FEH/(SHFT COND)
XA342	TT3	A1	07A	(04)	01		CX31CA CX30CA CT02PA 10 07A 08 06A 06 05A	
XA346	TD4	F2	35A	CT02PA	00	=		SHIFT BUT NOT NM2 OR SNC
XA346	TD4	F2	36B	(69)	01		SPA103 AMNMZA AMSNCA CX32C0 73 36B 71 36A 72 34A 74 35B	
XA344	TDD	BI	03B	CT04BI	00	=		
				( )	01		CT0400 05 03B	
XA344	TDD	BN	02B	CT04BN	00	=		8 MHZ CLOCK BUS APOL
				( )	01		CT8MHB 01 02B	
XA344	TDD	BP	04B	CT04BP	00	=		
XA344	TDD	BP	04A	(09)	01		SPA102 04 04A	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA344	TDD	BQ	03A	CT04BQ	00	=		
XA344	TDD	BQ	02A	(107)	01		JIRESD 03 02A	
XA341	TQ2	B4	13B	CT04D0	00	=		DATA INPUT
XA341	TQ2	B4	11B	(27)	01		CT06BP CT04EA 23 11B 25 12B	
XA343	TS8	A1	05B	CT04EA	00	=		SET 4 INTERVAL STATE
XA343	TS8	A1	07A	(11)	01		CT02C0 CT06EA SPA301 CT04BP CT08EA CT06VA CT02EA CT06ZA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA341	TQ2	E1	31A	CT04Q0	00	=		SET T02/T04
XA341	TQ2	E1	33A	(66)	01		CT04BP SPA100 70 33A 68 32A	
				CT06BI	00	=		
XA344	TDD	CI	13A	( )	01		CT06D0 24 13A	
				CT06BN	00	=		
XA344	TDD	CN	14A	( )	01		CT8MHB 26 14A	8 MHZ CLOCK BUS APOL
XA344	TDD	CP	11B	CT06BP	00	=		
XA344	TDD	CP	12A	(23)	01		JIRESD 22 12A	
XA344	TDD	CQ	12B	CT06BQ	00	=		
XA344	TDD	CQ	13B	(25)	01		SP1029 27 13B	
XA343	TS8	B1	11B	CT06D0	00	=		DATA INPUT
XA343	TS8	B1	14A	(23)	01		SPA104 CT06VA CT08BP SPA301 CT06ZA SPA101 CT06EA SPA103 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA340	TQ2	B3	10B	CT06EA	00	=		SET 6 INTERVAL STATE
XA340	TQ2	B3	08B	(21)	01		CT06F0 CT02C0 17 08B 19 09B	
XA343	TS8	C1	17B	CT06F0	00	=		EO/(MRM EO*)/(MRR EO*)/LINS
XA343	TS8	C1	20A	(35)	01		CF06CA CE00CA CT06SA C705CA C506CA C507CA CT06GA CF04CA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA340	TQ2	D2	21A	CT06GA	00	=		INS EXE STATES
XA340	TQ2	D2	23A	(46)	01		CT06G0 SPA099 50 23A 48 22A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA343	TS8	D1	25B	CT06G0	00	=		
XA343	TS8	D1	26A	(47)	01		SPA103 SPA102 SPA101 CT06PA CT06HA CT06LA CT06MA CT06RA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA341	TQ2	C1	18A	CT06HA	00	=		F2, INS
XA341	TQ2	C1	20A	(38)	01		CT06JO CE02CO 42 20A 40 19A	
XA343	TS8	E1	31B	CT06JO	00	=		RA/RS/06K/RT/RE/RN/SSE/MTH
XA343	TS8	E1	33A	(59)	01		CX57CA SPA104 CT06KA CX16CA CX17CA CX35CA CX37CA CX36CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA342	TT3	A3	07B	CT06KA	00	=		R0W2.(CG/CS)*
XA342	TT3	A3	04B	(15)	01		CX24CA CX23CA CX2XDO 09 04B 11 05B 13 06B	
XA341	TQ2	C2	15A	CT06LA	00	=		F4, SSE
XA341	TQ2	C2	17A	(30)	01		CE04CO C057CO 36 17A 34 16A	
XA341	TQ2	C3	16B	CT06MA	00	=		F5.(MPF/MPH/CGE/CGH)
XA341	TQ2	C3	14B	(33)	01		CT06NO CE05CO 29 14B 31 15B	
XA342	TT3	C2	15B	CT06NO	00	=		(MPF/MPH/CGE/CGH)
XA342	TT3	C2	16A	(31)	01		SPA101 CX23CA CX14CA 34 16A 30 15A 29 14B	
XA341	TQ2	C4	19B	CT06PA	00	=		
XA341	TQ2	C4	17B	(39)	01		CT06QO CE06CO 35 17B 37 18B	
XA340	TQ2	C1	18A	CT06QO	00	=		D1E/D1H/CSE/CSH
XA340	TQ2	C1	20A	(38)	01		CX24CA CX15CA 42 20A 40 19A	
XA341	TQ2	D1	24A	CT06RA	00	=		F11.(D1E/D1H)
XA341	TQ2	D1	26A	(52)	01		CE11CO CX15CO 56 26A 54 25A	
XA341	TQ2	D2	21A	CT06SA	00	=		
XA341	TQ2	D2	23A	(46)	01		CT06SO SPA100 50 23A 48 22A	
XA346	TD4	D1	25B	CT06SO	00	=		L102/L202/L402/L701
XA346	TD4	D1	26A	(47)	01		CG71CA CG12CA CG22CA CG42CA 56 26A 54 25A 52 24A 49 26B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA216	TD4	E2	30B	CT06TO	00	=		
XA216	TD4	E2	30A	(57)	01		SPI022 SPI021 CG36CA CG35CA 64 30A 62 29A 60 28A 55 29B	
XA323	TQ2	A1	05A	CT06VA	00	=		SET 6I STATE FOR AUC
XA323	TQ2	A1	07A	(06)	01		CT02C0 CT06TO 10 07A 08 06A	
XA340	TQ2	B4	13B	CT06ZA	00	=		SET 6 INTRVL IN ATES/DIGI
XA340	TQ2	B4	11B	(27)	01		CT02C0 EX06G0 23 11B 25 12B	
XA344	TDD	DI	10A	CT08BI	00	=		
XA344	TDD	DI	10A	( )	01		CT08D0 18 10A	
XA344	TDD	DN	09A	CT08BN	00	=		
XA344	TDD	DN	09A	( )	01		CT8MHB 14 09A	8 MHZ CLOCK BUS APOL
XA344	TDD	DP	10B	CT08BP	00	=		
XA344	TDD	DP	11A	(21)	01		JIRESD 20 11A	
XA344	TDD	DQ	09B	CT08BQ	00	=		
XA344	TDD	DQ	08B	(19)	01		SPI028 17 08B	
XA340	TQ2	C2	15A	CT08D0	00	=		DATA INPUT
XA340	TQ2	C2	17A	(30)	01		CT08EA SPA098 36 17A 34 16A	
XA342	TT3	F3	39A	CT08EA	00	=		SET 8 INTERVAL STATE
XA342	TT3	F3	35A	(80)	01		CT02C0 CT08F0 SPA101 69 35A 76 37A 78 38A	
XA346	TD4	D2	24B	CT08F0	00	=		(MMW ES)/(MMW LC)/(MWR LC)
XA346	TD4	D2	23A	(45)	01		ET06CA C505QA C508DA C505CA 50 23A 48 22A 46 21A 43 23B	
XA432	TDD	AI	06A	CT1MBI	00	=		
XA432	TDD	AI	06A	( )	01		CT1MPO 08 06A	
XA432	TDD	AN	07A	CT1MBN	00	=		
XA432	TDD	AN	07A	( )	01		CT1N5P 10 07A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG. NOTATION	FACTOR	COMMENT
XA432	TDD	AP	05B	CT1MBP	00	=		
XA432	TDD	AP	05A	(11)	01		SPI035 06 05A	
XA432	TDD	AQ	06B	CT1MBQ	00	=		
XA432	TDD	AQ	07B	(13)	01		SPA131 15 07B	
XA340	TQ2	D1	24A	CT1MPO	00	=		
XA340	TQ2	D1	26A	(52)	01		CT1MBQ SPA099 56 26A 54 25A	
				CT1NBI	00	=		
XA344	TDD	GI	25A	( )	01		CT1NPO 54 25A	
				CT1NBN	00	=		
XA344	TDD	GN	26A	( )	01		CT4MHJ 56 26A	
XA344	TDD	GP	25B	CT1NBP	00	=		TOGGLE CTR SIG 1
XA344	TDD	GP	24A	(47)	01		SPA103 52 24A	
XA344	TDD	GQ	26B	CT1NBQ	00	=		
XA344	TDD	GQ	27B	(49)	01		SPA102 51 27B	
XA340	TQ2	C4	19B	CT1NPO	00	=		
XA340	TQ2	C4	17B	(39)	01		SPA099 CT1NBQ 35 17B 37 18B	
				CT12BI	00	=		
XA344	TDD	EI	19A	( )	01		CT12DA 40 19A	
				CT12BN	00	=		
XA344	TDD	EN	20A	( )	01		CT8MHB 42 20A	8 MHZ CLOCK BUS APOL
XA344	TDD	EP	17B	CT12BP	00	=		
XA344	TDD	EP	18A	(35)	01		SPA103 38 18A	
XA344	TDD	EQ	18B	CT12BQ	00	=		ENABLE 2I STATE ENTRY/EXIT
XA344	TDD	EQ	19B	(37)	01		J1RESD 39 19B	

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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA342	TT3	B2 09B	CT12DA	00	=		
XA342	TT3	B2 10A	(19)	01		CT02LA CT02FO CT02CO 18 10A 14 09A 17 08B	INHIBIT SET OF T12
XA340	TQ2	B1 12A	CT16MA	00	=		
XA340	TQ2	B1 14A	(22)	01		CT16M0 SPA089 26 14A 24 13A	E1/E3
XA344	TDD	FI 16A	CT22BI	00	=		
XA344	TDD	FI 16A	( )	01		CT22DA 34 16A	
XA344	TDD	FN 15A	CT22BN	00	=		
XA344	TDD	FN 15A	( )	01		CT8MHB 30 15A	8 MHZ CLOCK BUS APOL
XA344	TDD	FP 16B	CT22BP	00	=		
XA344	TDD	FP 17A	(33)	01		SPA104 36 17A	
XA344	TDD	FQ 15B	CT22BQ	00	=		
XA344	TDD	FQ 14B	(31)	01		JIRESD 29 14B	ENABLE 21 STATE ENTRY/EXIT
XA219	TS8	F1 37A	CT22DA	00	=		
XA219	TS8	F1 39B	(76)	01		CT02CO CT22E0 CK04BP CK03BP CK02BP CK00BP CK01BP SPA025 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	INHIBIT SET
XA340	TQ2	C3 16B	CT22E0	00	=		
XA340	TQ2	C3 14B	(33)	01		CT02NA CX15CA 29 14B 31 15B	FRMT/LSHET, NMZ*, SNC*1/DIVD
XA342	TT3	B1 11A	CT8MCA	00	=		
XA342	TT3	B1 14A	(20)	01		CT16M0 CTMCPB CTRLBP 26 14A 24 13A 22 12A	16MHZ CONTROLLED CLOCK
XA346	TD4	B1 11B	CT8MHB	00	=		
XA346	TD4	B1 11B	( )	01		CT8M1A 23 11B	8 MHZ CLOCK BUSS
XA346	TD4	B2 10B	( )	02	+	CT8M2A 21 10B	8 MHZ CLOCK BUSS
XA346	TD4	B1 11B	CT8M1A	00	=		
XA346	TD4	B1 14A	(23)	01		SPA301 SPA103 CT8MBQ SPA104 26 14A 24 13A 22 12A 25 12B	CT8MHB BUSS
XA346	TD4	B2 10B	CT8M2A	00	=		
XA346	TD4	B2 11A	(21)	01		CT8MBQ SPA104 SPA103 SPA301 20 11A 18 10A 14 09A 19 09B	CT8MHB BUSS

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERY	DESIGNATOR	FACTOR	COMMENT
XA427	TT3	C3	19B	CXX0AA	00	=		
XA427	TT3	C3	16B	(39)	01		CC06BP CC04BP CC05BP 33 16B 35 17B 37 18B	
XA426	TQ2	D1	24A	CXX0A0	00	=		INSTRUCTION CODE DECODING
XA426	TQ2	D1	26A	(52)	01		SPA124 CXX0AA 56 26A 54 25A	
XA426	TQ2	D2	21A	CXX0C0	00	=		
XA426	TQ2	D2	23A	(46)	01		CXX0AA SPA124 50 23A 48 22A	
XA427	TT3	D1	23A	CXX1AA	00	=		
XA427	TT3	D1	26A	(50)	01		CC06BQ CC05BP CC04BP 56 26A 54 25A 52 24A	
XA426	TQ2	D3	24B	CXX1A0	00	=		
XA426	TQ2	D3	22B	(45)	01		SPA124 CXX1AA 41 22B 43 23B	
XA426	TQ2	D4	27B	CXX1C0	00	=		
XA426	TQ2	D4	25B	(51)	01		CXX1AA SPA124 47 25B 49 26B	
XA427	TT3	D2	23B	CXX2AA	00	=		
XA427	TT3	D2	22A	(43)	01		CC06BP CC05BQ CC04BP 48 22A 46 21A 41 22B	
XA426	TQ2	E1	31A	CXX2A0	00	=		
XA426	TQ2	E1	33A	(66)	01		SPA125 CXX2AA 70 33A 68 32A	
XA426	TQ2	E2	28A	CXX2C0	00	=		
XA426	TQ2	E2	30A	(60)	01		CXX2AA SPA125 64 30A 62 29A	
XA427	TT3	D3	27B	CXX3AA	00	=		
XA427	TT3	D3	24B	(51)	01		CC04BP CC06BQ CC05BQ 45 24B 47 25B 49 26B	
XA426	TQ2	E3	30B	CXX3A0	00	=		
XA426	TQ2	E3	28B	(57)	01		SPA124 CXX3AA 53 28B 55 29B	
XA426	TQ2	E4	33B	CXX3C0	00	=		
XA426	TQ2	E4	31B	(63)	01		CXX3AA SPA124 59 31B 61 32B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA427	TT3	E1	30A	CXX4AA	00	=		
XA427	TT3	E1	33A	(64)	01		CC04BQ CC05BP CC06BP 70 33A 68 32A 66 31A	
XA426	TQ2	F1	37B	CXX4A0	00	=		
XA426	TQ2	F1	39B	(75)	01		SPA125 CXX4AA 79 39B 77 38B	
XA426	TQ2	F2	34A	CXX4C0	00	=		
XA426	TQ2	F2	36B	(72)	01		CXX4AA SPA125 73 36B 71 36A	
XA427	TT3	E2	29B	CXX5AA	00	=		
XA427	TT3	E2	29A	(55)	01		CC06BQ CC04BQ CC05BP 62 29A 60 28A 53 28B	
XA428	TQ2	E1	31A	CXX5A0	00	=		
XA428	TQ2	E1	33A	(66)	01		SPA127 CXX5AA 70 33A 68 32A	
XA428	TQ2	E2	28A	CXX5C0	00	=		
XA428	TQ2	E2	30A	(60)	01		CXX5AA SPA127 64 30A 62 29A	
XA426	TQ2	C4	19B	CXX5D0	00	=		
XA426	TQ2	C4	17B	(39)	01		SPA124 CXX5AA 35 17B 37 18B	
XA427	TT3	E3	33B	CXX6AA	00	=		
XA427	TT3	E3	30B	(63)	01		CC05BQ CC06BP CC04BQ 57 30B 59 31B 61 32B	
XA428	TQ2	E3	30B	CXX6A0	00	=		
XA428	TQ2	E3	28B	(57)	01		SPA127 CXX6AA 53 28B 55 29B	
XA428	TQ2	E4	33B	CXX6C0	00	=		
XA428	TQ2	E4	31B	(63)	01		CXX6AA SPA127 59 31B 61 32B	
XA427	TT3	F1	36B	CXX7AA	00	=		
XA427	TT3	F1	39B	(73)	01		CC05BQ CC06BQ CC04BQ 79 39B 77 38B 75 37B	
XA426	TQ2	F3	35A	CXX7A0	00	=		
XA426	TQ2	F3	34B	(69)	01		SPA125 CXX7AA 65 34B 74 35B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESIGNATOR	FACTOR	COMMENT
XA426	TQ2	F4	39A	CXX7C0	00	=		
XA426	TQ2	F4	37A	(80)	01		CXX7AA SPA125 76 37A 78 38A	
XA427	TT3	A1	04A	CXOXAA	00	=		
XA427	TT3	A1	07A	(04)	01		CC01BP CC03BP CC02BP 10 07A 08 06A 06 05A	
XA426	TQ2	A1	05A	CXOXAO	00	=		
XA426	TQ2	A1	07A	(06)	01		SPA123 CXOXAA 10 07A 08 06A	
XA426	TQ2	A2	02B	CXOXCO	00	=		
XA426	TQ2	A2	04A	(01)	01		CXOXAA SPA123 04 04A 05 03B	
XA427	TT3	A2	03A	CX1XAA	00	=		
XA427	TT3	A2	03B	(07)	01		CC02BP CC01BP CC03BQ 05 03B 01 02B 03 02A	
XA426	TQ2	A3	04B	CX1XAO	00	=		
XA426	TQ2	A3	02A	(09)	01		SPA123 CX1XAA 03 02A 07 03A	
XA425	TQ2	A1	05A	CX1XCA	00	=		
XA425	TQ2	A1	07A	(06)	01		CX1XCO SPA121 10 07A 08 06A	
XA426	TQ2	A4	07B	CX1XCO	00	=		
XA426	TQ2	A4	05B	(15)	01		CX1XAA SPA123 11 05B 13 06B	
XA426	TQ2	B1	12A	CX1XDO	00	=		
XA426	TQ2	B1	14A	(22)	01		SPA123 CX1XAA 26 14A 24 13A	
XA424	TQ2	A1	05A	CX10CA	00	=		ADF/ADH
XA424	TQ2	A1	07A	(06)	01		CXX0AO CX1XDO 10 07A 08 06A	
XA424	TQ2	A2	02B	CX11CA	00	=		SBE/SBH
XA424	TQ2	A2	04A	(01)	01		CXX1AO CX1XDO 04 04A 05 03B	
XA424	TQ2	A3	04B	CX12CA	00	=		ALE/ALH
XA424	TQ2	A3	02A	(09)	01		CX1XDO CXX2AO 03 02A 07 03A	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
XA424	TQ2	A4	07B	CX13CA	00	=		
XA424	TQ2	A4	05B	(15)	01		CX1X00 CXX3A0 11 05B 13 06B	SLE/SLH
XA424	TQ2	B1	12A	CX14CA	00	=		
XA424	TQ2	B1	14A	(22)	01		CX1X00 CXX4A0 26 14A 24 13A	MPF/MPH
XA425	TQ2	D3	24B	CX14C0	00	=		
XA425	TQ2	D3	22B	(45)	01		CX14CA SPA122 41 22B 43 23B	
XA424	TQ2	B2	09A	CX14DA	00	=		
XA424	TQ2	B2	11A	(14)	01		CXX4C0 CX1XC0 20 11A 18 10A	
XA424	TQ2	B3	10B	CX15CA	00	=		
XA424	TQ2	B3	08B	(21)	01		CXX5A0 CX1XD0 17 08B 19 09B	DIF/DIH
XA425	TQ2	D4	27B	CX15C0	00	=		
XA425	TQ2	D4	25B	(51)	01		CX15CA SPA122 47 25B 49 26B	
XA424	TQ2	B4	13B	CX15DA	00	=		
XA424	TQ2	B4	11B	(27)	01		SPA120 CX15C0 23 11B 25 12B	
XA425	TQ2	E1	31A	CX15D0	00	=		
XA425	TQ2	E1	33A	(66)	01		SPA122 CX15DA 70 33A 68 32A	
XA424	TQ2	C1	18A	CX15EA	00	=		
XA424	TQ2	C1	20A	(38)	01		SPA120 CX15D0 42 20A 40 19A	
XA425	TQ2	E2	28A	CX15E0	00	=		
XA425	TQ2	E2	30A	(60)	01		SPA122 CX15EA 64 30A 62 29A	
XA424	TQ2	C2	15A	CX16CA	00	=		
XA424	TQ2	C2	17A	(30)	01		CXX6A0 CX1XD0 36 17A 34 16A	RAF/RAH
XA424	TQ2	C3	16B	CX17CA	00	=		
XA424	TQ2	C3	14B	(33)	01		CX1XD0 CXX7A0 29 14B 31 15B	RSE/RSH

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CONNECTOR	CPU GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA427	TT3 A3	07B	CX2XAA	00 =			
XA427	TT3 A3	04B	(15)	01		CC01BP CC02BQ CC03BP 09 04B 11 05B 13 06B	
XA426	TQ2 B2	09A	CX2XAO	00 =			
XA426	TQ2 B2	11A	(14)	01		SPA123 CX2XAA 20 11A 18 10A	
XA416	TT3 F3	39A	CX2XCA	00 =			
XA416	TT3 F3	35A	(80)	01		CC02BQ CC03BP CC01BP 69 35A 76 37A 78 38A	
XA426	TQ2 B3	10B	CX2XC0	00 =			
XA426	TQ2 B3	08B	(21)	01		SPA123 CX2XAA 17 08B 19 09B	
XA426	TQ2 B4	13B	CX2XD0	00 =			
XA426	TQ2 B4	11B	(27)	01		CX2XAA SPA123 23 11B 25 12B	
XA424	TQ2 C4	19B	CX20CA	00 =			CME/CMH
XA424	TQ2 C4	17B	(39)	01		CXX0A0 CX2XD0 35 17B 37 18B	
XA424	TQ2 D1	24A	CX21CA	00 =			CLU/CLL
XA424	TQ2 D1	26A	(52)	01		CX2XD0 CXX1A0 56 26A 54 25A	
XA425	TQ2 E3	30B	CX21C0	00 =			
XA425	TQ2 E3	28B	(57)	01		CX21CA SPA122 53 28B 55 29B	
XA424	TQ2 D2	21A	CX21EA	00 =			
XA424	TQ2 D2	23A	(46)	01		CX21C0 SPA120 50 23A 48 22A	
XA424	TQ2 D3	24B	CX22CA	00 =			CLF/CLH
XA424	TQ2 D3	22B	(45)	01		CX2XD0 CXX2A0 41 22B 43 23B	
XA424	TQ2 D4	27B	CX23CA	00 =			CGE/CGH
XA424	TQ2 D4	25B	(51)	01		CX2XD0 CXX3A0 47 25B 49 26B	
XA425	TQ2 E4	33B	CX23C0	00 =			
XA425	TQ2 E4	31B	(63)	01		CX23CA SPA122 59 31B 61 32B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESC	FACTOR	COMMENT
XA424	TQ2	E1	31A	CX23EA	00	=		
XA424	TQ2	E1	33A	(66)	01		SPA120 CX23C0 70 33A 68 32A	
XA424	TQ2	E2	28A	CX24CA	00	=		CSE/CSH
XA424	TQ2	E2	30A	(60)	01		CXX4A0 CX2XD0 64 30A 62 29A	
XA425	TQ2	F1	37B	CX24C0	00	=		
XA425	TQ2	F1	39B	(75)	01		SPA123 CX24CA 79 39B 77 38B	
XA424	TQ2	E3	30B	CX24EA	00	=		
XA424	TQ2	E3	28B	(57)	01		SPA120 CX24C0 53 28B 55 29B	
XA424	TQ2	E4	33B	CX25CA	00	=		IOF/IOH
XA424	TQ2	E4	31B	(63)	01		CX2XD0 CXX5A0 59 31B 61 32B	
XA424	TQ2	F1	37B	CX26CA	00	=		EOF/EQH
XA424	TQ2	F1	39B	(75)	01		CXX6A0 CX2XD0 79 39B 77 38B	
XA424	TQ2	F2	34A	CX27CA	00	=		ANF/ANH
XA424	TQ2	F2	36B	(72)	01		CX2XD0 CXX7A0 73 36B 71 36A	
XA427	TT3	B1	11A	CX3XAA	00	=		
XA427	TT3	B1	14A	(20)	01		CC02BQ CC03BQ CC01BP 26 14A 24 13A 22 12A	
XA426	TQ2	C1	18A	CX3XA0	00	=		
XA426	TQ2	C1	20A	(38)	01		SPA124 CX3XAA 42 20A 40 19A	
XA426	TQ2	C2	15A	CX3XC0	00	=		
XA426	TQ2	C2	17A	(30)	01		CX3XAA SPA124 36 17A 34 16A	
XA426	TQ2	C3	16B	CX3XD0	00	=		
XA426	TQ2	C3	14B	(33)	01		SPA124 CX3XAA 29 14B 31 15B	
XA424	TQ2	F3	35A	CX30CA	00	=		FEF/FEH
XA424	TQ2	F3	34B	(69)	01		CX3XD0 CXX0A0 65 34B 74 35B	

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CONNECTOR	TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA424	TQ2	F4	39A	CX31CA	00	=		
XA424	TQ2	F4	37A	(80)	01		CX3XD0 CXX1A0 76 37A 78 38A	FIE/FIH
XA425	TQ2	F2	34A	CX31C0	00	=		
XA425	TQ2	F2	36B	(72)	01		CX31CA SPA122 73 36B 71 36A	
XA423	TQ2	A1	05A	CX32CA	00	=		
XA423	TQ2	A1	07A	(06)	01		CX3XD0 CXX2A0 10 07A 08 06A	SHE/SHH
XA425	TQ2	B1	12A	CX32C0	00	=		
XA425	TQ2	B1	14A	(22)	01		SPA121 CX32CA 26 14A 24 13A	
XA423	TQ2	A2	02B	CX32EA	00	=		
XA423	TQ2	A2	04A	(01)	01		SPA119 CX32C0 04 04A 05 03B	
XA423	TQ2	A3	04B	CX32FA	00	=		
XA423	TQ2	A3	02A	(09)	01		SPA119 CX32C0 03 02A 07 03A	
XA423	TQ2	A4	07B	CX33CA	00	=		
XA423	TQ2	A4	05B	(15)	01		CX3XD0 CXX3C0 11 05B 13 06B	
XA430	TQ2	C4	19B	CX33C0	00	=		
XA430	TQ2	C4	17B	(39)	01		CX33CA SPA129 35 17B 37 18B	
XA423	TQ2	B1	12A	CX34CA	00	=		
XA423	TQ2	B1	14A	(22)	01		CX3XD0 CXX4A0 26 14A 24 13A	SRT/RBT
XA425	TQ2	F3	35A	CX34C0	00	=		
XA425	TQ2	F3	34B	(69)	01		CX34CA SPA122 65 34B 74 35B	
XA423	TQ2	B2	09A	CX34EA	00	=		
XA423	TQ2	B2	11A	(14)	01		CX34C0 SPA119 20 11A 18 10A	
XA423	TQ2	B3	10B	CX34FA	00	=		
XA423	TQ2	B3	08B	(21)	01		SPA119 CX34C0 17 08B 19 09B	SRT/RBT UNLOAD

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
			AND	OR					
XA423	TQ2	B4	13B		CX35CA	00	=		RIF/RIH
XA423	TQ2	B4	11B		(27)	01		CXX5A0 CX3XD0 23 11B 25 12B	
XA423	TQ2	C1	18A		CX36CA	00	=		REE/REH
XA423	TQ2	C1	20A		(38)	01		CXX6A0 CX3XD0 42 20A 40 19A	
XA423	TQ2	C2	15A		CX37CA	00	=		RNF/RNH
XA423	TQ2	C2	17A		(30)	01		CX3XD0 CXX7A0 36 17A 34 16A	
XA427	TT3	B2	09B		CX4XAA	00	=		
XA427	TT3	B2	10A		(19)	01		CC03BP CC01BQ CC02BP 18 10A 14 09A 17 08B	
XA425	TQ2	B2	09A		CX4XA0	00	=		
XA425	TQ2	B2	11A		(14)	01		SPA121 CX4XAA 20 11A 18 10A	
XA425	TQ2	A3	04B		CX4XC0	00	=		
XA425	TQ2	A3	02A		(09)	01		SPA120 CX4XAA 03 02A 07 03A	
XA425	TQ2	A4	07B		CX4XD0	00	=		
XA425	TQ2	A4	05B		(15)	01		CX4XAA SPA121 11 05B 13 06B	
XA423	TQ2	C3	16B		CX40CA	00	=		LDF/LDH
XA423	TQ2	C3	14B		(33)	01		CXX0C0 CX4XD0 29 14B 31 15B	
XA425	TQ2	F4	39A		CX40C0	00	=		
XA425	TQ2	F4	37A		(80)	01		CX40CA SPA123 76 37A 78 38A	
XA423	TQ2	C4	19B		CX40EA	00	=		
XA423	TQ2	C4	17B		(39)	01		SPA119 CX40C0 35 17B 37 18B	
XA423	TQ2	D1	24A		CX41CA	00	=		LDU/LDI
XA423	TQ2	D1	26A		(52)	01		CX4XD0 CXX1C0 56 26A 54 25A	
XA430	TQ2	A1	05A		CX41C0	00	=		
XA430	TQ2	A1	07A		(06)	01		CX41CA SPA128 10 07A 08 06A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	RELATIONSHIP	FACTOR	COMMENT
XA423	TQ2	D2	21A	CX41EA	00	=		
XA423	TQ2	D2	23A	(46)	01		SPA119 CX41C0 50 23A 48 22A	
XA423	TQ2	D3	24B	CX42CA	00	=		LAF/LAH
XA423	TQ2	D3	22B	(45)	01		CX4XD0 CXX2C0 41 22B 43 23B	
XA430	TQ2	A2	02B	CX42C0	00	=		
XA430	TQ2	A2	04A	(01)	01		CX42CA SPA128 04 04A 05 03B	
XA423	TQ2	D4	27B	CX43CA	00	=		LCE/LCH
XA423	TQ2	D4	25B	(51)	01		CXX3C0 CX4XD0 47 25B 49 26B	
XA423	TQ2	E1	31A	CX44CA	00	=		LMH/SML
XA423	TQ2	E1	33A	(66)	01		CX4XA0 CXX4C0 70 33A 68 32A	
XA423	TQ2	E2	28A	CX45CA	00	=		SDU/SDH
XA423	TQ2	E2	30A	(60)	01		CXX5C0 CX4XD0 64 30A 62 29A	
XA430	TQ2	A3	04B	CX45C0	00	=		
XA430	TQ2	A3	02A	(09)	01		SPA128 CX45CA 03 02A 07 03A	
XA423	TQ2	E3	30B	CX45EA	00	=		
XA423	TQ2	E3	28B	(57)	01		CX45C0 SPA120 53 28B 55 29B	
XA423	TQ2	E4	33B	CX46CA	00	=		SDE/SDH
XA423	TQ2	E4	31B	(63)	01		CX4XD0 CXX6C0 59 31B 61 32B	
XA430	TQ2	A4	07B	CX46C0	00	=		
XA430	TQ2	A4	05B	(15)	01		SPA129 CX46CA 11 05B 13 06B	
XA423	TQ2	F1	37B	CX46EA	00	=		
XA423	TQ2	F1	39B	(75)	01		SPA120 CX46C0 79 39B 77 38B	
XA423	TQ2	F2	34A	CX47CA	00	=		MZE/MZH
XA423	TQ2	F2	36B	(72)	01		CXX7C0 CX4XD0 73 36B 71 36A	

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CONNECTOR	TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA427	TT3	B3	13B	CX5XAA	00 =			
XA427	TT3	B3	10B	(27)	01		CC02BP CC03BQ CC01BQ 21 10B 23 11B 25 12B	
XA425	TQ2	B3	10B	CX5XAO	00 =			
XA425	TQ2	B3	08B	(21)	01		SPA121 CX5XAA 17 08B 19 09B	
XA425	TQ2	B4	13B	CX5XC0	00 =			
XA425	TQ2	B4	11B	(27)	01		CX5XAA SPA121 23 11B 25 12B	
XA427	TT3	F2	35B	CX55CA	00 =			
XA427	TT3	F2	36A	(74)	01		SPA125 CXX5C0 CX5XC0 71 36A 72 34A 65 34B	MIU/MIL
XA430	TQ2	E3	30B	CX55C0	00 =			
XA430	TQ2	E3	28B	(57)	01		SPA130 CX55CA 53 28B 55 29B	
XA423	TQ2	F3	35A	CX55EA	00 =			
XA423	TQ2	F3	34B	(69)	01		CX55C0 SPA120 65 34B 74 35B	
XA427	TT3	F3	39A	CX56CA	00 =			
XA427	TT3	F3	35A	(80)	01		CX5XC0 CXX6C0 SPA125 69 35A 76 37A 78 38A	EXF/EXH
XA428	TQ2	F4	39A	CX56C0	00 =			
XA428	TQ2	F4	37A	(80)	01		CX56CA SPA128 76 37A 78 38A	
XA423	TQ2	F4	39A	CX56EA	00 =			
XA423	TQ2	F4	37A	(80)	01		SPA120 CX56C0 76 37A 78 38A	
XA421	TQ2	A1	05A	CX57CA	00 =			
XA421	TQ2	A1	07A	(06)	01		CX5XC0 CXX7C0 10 07A 08 06A	
XA427	TT3	C1	17A	CX6XAA	00 =			
XA427	TT3	C1	20A	(36)	01		CC01BQ CC03BP CC02BQ 42 20A 40 19A 38 18A	
XA425	TQ2	C1	18A	CX6XAO	00 =			
XA425	TQ2	C1	20A	(38)	01		SPA121 CX6XAA 42 20A 40 19A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERN	DESIG. FACTOR	FACTOR	COMMENT
XA425	TQ2	C2	15A	CX6XC0	00	=		
XA425	TQ2	C2	17A	(30)	01		CX6XAA SPA121 36 17A 34 16A	
XA425	TQ2	C3	16B	CX6XD0	00	=		
XA425	TQ2	C3	14B	(33)	01		SPA121 CX6XAA 29 14B 31 15B	
XA421	TQ2	A2	02B	CX60CA	00	=		
XA421	TQ2	A2	04A	(01)	01		CXX0C0 CX6XD0 04 04A 05 02B	
XA421	TQ2	A3	04B	CX62CA	00	=		
XA421	TQ2	A3	02A	(09)	01		CX6XD0 CXX2C0 03 02A 07 03A	XEF/XUE
XA421	TQ2	A4	07B	CX63CA	00	=		
XA421	TQ2	A4	05B	(15)	01		CXX3C0 CX6XD0 11 05B 13 06B	XPF/XNE
XA421	TQ2	B1	12A	CX64CA	00	=		
XA421	TQ2	B1	14A	(22)	01		CXX4C0 CX6XD0 26 14A 24 13A	XDD/XDT
XA421	TQ2	B2	09A	CX65CA	00	=		
XA421	TQ2	B2	11A	(14)	01		CX6XD0 CXX5C0 20 11A 18 10A	XIO/XIT
XA421	TQ2	B3	10B	CX67CA	00	=		
XA421	TQ2	B3	08B	(21)	01		CX6XD0 CXX7C0 17 08B 19 09B	ISZ/ISO
XA429	TD4	C1	17B	CX67C0	00	=		
XA429	TD4	C1	20A	(35)	01		SPA130 SPA129 SPA128 CX67CA 42 20A 40 19A 38 18A 37 18B	
XA421	TQ2	B4	13B	CX67EA	00	=		
XA421	TQ2	B4	11B	(27)	01		SPA118 CX67C0 23 11B 25 12B	
XA421	TQ2	C1	18A	CX67FA	00	=		
XA421	TQ2	C1	20A	(38)	01		SPA118 CX67C0 42 20A 40 19A	
XA427	TT3	C2	15B	CX7XAA	00	=		
XA427	TT3	C2	16A	(31)	01		CC02BQ CC03BQ CC01BQ 34 16A 30 15A 29 14B	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	TEST OR DATA	FACTOR	COMMENT
XA425	TQ2	C4	19B	CX7XAO	00	=		
XA425	TQ2	C4	17B	(39)	01		SPA121 CX7XAA 35 17B 37 18B	
XA425	TQ2	D1	24A	CX7XCO	00	=		
XA425	TQ2	D1	25A	(52)	01		SPA122 CX7XAA 56 26A 54 25A	
XA425	TQ2	D2	21A	CX7XDO	00	=		
XA425	TQ2	D2	23A	(46)	01		CX7XAA SPA122 50 23A 48 22A	
XA429	TD4	C2	16B	CX70CA	00	=		DEV/DEX
XA429	TD4	C2	17A	(33)	01		CXX0C0 SPA129 SPA128 CX7XDO 36 17A 34 16A 30 15A 31 15B	
XA421	TQ2	C2	15A	CX70C0	00	=		
XA421	TQ2	C2	17A	(30)	01		SPA118 CX70CA 36 17A 34 16A	
XA421	TQ2	C3	16B	CX71CA	00	=		ITR/OFR
XA421	TQ2	C3	14B	(33)	01		CXX1C0 CX7XDO 29 14B 31 15B	
XA421	TQ2	C4	19B	CX72CA	00	=		HLT/MBA
XA421	TQ2	C4	17B	(39)	01		CX7XDO CXX2C0 35 17B 37 18B	
XA421	TQ2	D1	24A	CX74CA	00	=		TXP/TCP
XA421	TQ2	D1	26A	(52)	01		CXX4C0 CX7XDO 56 26A 54 25A	
XA421	TQ2	D2	21A	CX75CA	00	=		TIE/LOD
XA421	TQ2	D2	23A	(46)	01		CX7XDO CXX5D0 50 23A 48 22A	
XA421	TQ2	D3	24B	CX76CA	00	=		
XA421	TQ2	D3	22B	(45)	01		CX7XDO CXX6A0 41 22B 43 23B	
XA421	TQ2	D4	27B	CX77CA	00	=		
XA421	TQ2	D4	25B	(51)	01		CXX7A0 CX7XDO 47 25B 49 26B	
XA422	TT3	A1	04A	C000CA	00	=		NOI 000
XA422	TT3	A1	07A	(04)	01		CCE0C0 CX0XAO CX0XAO 10 07A 08 06A 06 05A	

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CONNECTOR	GROUP TYPE	GROUP A	TEST POINTS AND OR	EQUATION	TERM	DESIG- NATOR	FACTOR	COMMENT
XA422	TT3	A2	03A	C010CA	00	=		
XA422	TT3	A2	03B	(07)	01		CXX0A0 CX1XA0 CCE0C0 05 03B 01 02B 03 02A	ADF 010
XA422	TT3	A3	07B	C011CA	00	=		
XA422	TT3	A3	04B	(15)	01		CCE0C0 CXX1A0 CX1XA0 09 04B 11 05B 13 06B	SBF 011
XA422	TT3	B1	11A	C014CA	00	=		
XA422	TT3	B1	14A	(20)	01		CX1XA0 CCE0C0 CXX4A0 26 14A 24 13A 22 12A	MPF 014
XA421	TQ2	E1	31A	C014C0	00	=		
XA421	TQ2	E1	33A	(66)	01		SPA118 C014CA 70 33A 68 32A	
XA422	TT3	B2	09B	C015CA	00	=		
XA422	TT3	B2	10A	(19)	01		CXX5A0 CCE0C0 CX1XA0 18 10A 14 09A 17 08B	DIF 015
XA421	TQ2	E2	28A	C015C0	00	=		
XA421	TQ2	E2	30A	(60)	01		SPA118 C015CA 64 30A 62 29A	DIF 015
XA422	TT3	B3	13B	C016CA	00	=		
XA422	TT3	B3	10B	(27)	01		CCE0C0 CX1XA0 CXX6A0 21 10B 23 11B 25 12B	RAF 016
XA422	TT3	C1	17A	C017CA	00	=		
XA422	TT3	C1	20A	(36)	01		CXX7A0 CCE0C0 CX1XA0 42 20A 40 19A 38 18A	RSE 017
XA422	TT3	C2	15B	C020CA	00	=		
XA422	TT3	C2	16A	(31)	01		CCE0C0 CXX0A0 CX2XA0 34 16A 30 15A 29 14B	CME 020
XA422	TT3	C3	19B	C021CA	00	=		
XA422	TT3	C3	16B	(39)	01		CXX1A0 CX2XA0 CCE0D0 33 16B 35 17B 37 18B	CLU 021
XA422	TT3	D1	23A	C022CA	00	=		
XA422	TT3	D1	26A	(50)	01		CCE0D0 CX2XA0 CXX2A0 56 26A 54 25A 52 24A	CLE 022
XA422	TT3	D2	23B	C023CA	00	=		
XA422	TT3	D2	22A	(43)	01		CXX3A0 CX2XA0 CCE0D0 48 22A 46 21A 41 22B	CGE 023

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CONNECTOR	CONNECTOR TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
XA422	TT3	D3	27B	C024CA	00	=		CSF 024
XA422	TT3	D3	24B	(51)	01		CCE0D0 CX2XA0 CXX4A0 45 24B 47 25B 49 26B	
XA422	TT3	E1	30A	C025CA	00	=		IDF 025
XA422	TT3	E1	33A	(64)	01		CCE0D0 CXX5A0 CX2XA0 70 33A 68 32A 66 31A	
XA422	TT3	E2	29B	C026CA	00	=		EOF 026
XA422	TT3	E2	29A	(55)	01		CXX6A0 CCE0D0 CX2XA0 62 29A 60 28A 53 28B	
XA422	TT3	E3	33B	C027CA	00	=		ANF 027
XA422	TT3	E3	30B	(63)	01		CCE0D0 CX2XA0 CXX7A0 57 30B 59 31B 61 32B	
XA422	TT3	F1	36B	C030CA	00	=		FEF 030
XA422	TT3	F1	39B	(73)	01		CXX0A0 CX3XA0 CCE0D0 79 39B 77 38B 75 37B	
XA422	TT3	F2	35B	C032CA	00	=		SHF 032
XA422	TT3	F2	36A	(74)	01		CCE0D0 CX3XA0 CXX2A0 71 36A 72 34A 65 34B	
XA421	TQ2	E3	30B	C032C0	00	=		
XA421	TQ2	E3	28B	(57)	01		SPA118 C032CA 53 28B 55 29B	
XA421	TQ2	E4	33B	C032D0	00	=		
XA421	TQ2	E4	31B	(63)	01		C032CA SPA118 59 31B 61 32B	
XA422	TT3	F3	39A	C033CA	00	=		RQF 033
XA422	TT3	F3	35A	(80)	01		CXX3A0 CX3XA0 CCE0E0 69 35A 76 37A 78 38A	
XA421	TQ2	F1	37B	C033C0	00	=		
XA421	TQ2	F1	39B	(75)	01		SPA119 C033CA 79 39B 77 38B	
XA421	TQ2	F2	34A	C033D0	00	=		
XA421	TQ2	F2	36B	(72)	01		C033CA SPA119 73 36B 71 36A	
XA419	TQ2	F1	37B	C033EA	00	=		
XA419	TQ2	F1	39B	(75)	01		SPA118 C033D0 79 39B 77 38B	

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XA420	TT3	A1	04A	C034CA	00	=		
XA420	TT3	A1	07A	(04)	01		CX3XA0 CCE0E0 CXX4A0 10 07A 08 06A 06 05A	SBT 034
XA420	TT3	A2	03A	C035CA	00	=		
XA420	TT3	A2	03B	(07)	01		CCE0E0 CX3XA0 CXX5A0 05 03B 01 02B 03 02A	RIE 035
XA420	TT3	A3	07B	C036CA	00	=		
XA420	TT3	A3	04B	(15)	01		CCE0E0 CX3XA0 CXX6A0 09 04B 11 05B 13 06B	REF 036
XA420	TT3	B1	11A	C037CA	00	=		
XA420	TT3	B1	14A	(20)	01		CCE0E0 CXX7A0 CX3XA0 26 14A 24 13A 22 12A	RNE 037
XA420	TT3	B2	09B	C040CA	00	=		
XA420	TT3	B2	10A	(19)	01		CX4XA0 CCE0E0 CXX0A0 18 10A 14 09A 17 08B	LDE 040
XA420	TT3	B3	13B	C041CA	00	=		
XA420	TT3	B3	10B	(27)	01		CCE0E0 CXX1A0 CX4XA0 21 10B 23 11B 25 12B	LDU 041
XA420	TT3	C1	17A	C042CA	00	=		
XA420	TT3	C1	20A	(36)	01		CCE0E0 CX4XA0 CXX2A0 42 20A 40 19A 38 18A	LAF 042
XA420	TT3	C2	15B	C043CA	00	=		
XA420	TT3	C2	16A	(31)	01		CXX3A0 CCE0E0 CX4XA0 34 16A 30 15A 29 14B	LCE 043
XA420	TT3	C3	19B	C044CA	00	=		
XA420	TT3	C3	16B	(39)	01		CCE0E0 CX4XA0 CXX4A0 33 16B 35 17B 37 18B	LMH 044
XA421	TQ2	F3	35A	C044C0	00	=		
XA421	TQ2	F3	34B	(69)	01		C044CA SPA119 65 34B 74 35B	
XA419	TQ2	F2	34A	C044EA	00	=		
XA419	TQ2	F2	36B	(72)	01		SPA117 C044C0 73 36B 71 36A	
XA420	TT3	D1	23A	C045CA	00	=		
XA420	TT3	D1	26A	(50)	01		CXX5A0 CCE0F0 CX4XA0 56 26A 54 25A 52 24A	SDU 045

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA420	TT3	D2	23B	C046CA	00	=		
XA420	TT3	D2	22A	(43)	01		CXX6A0 CX4XA0 CCE0F0 48 22A 46 21A 41 22B	SDF 046
XA420	TT3	D3	27B	C047CA	00	=		
XA420	TT3	D3	24B	(51)	01		CCE0F0 CX4XA0 CXX7A0 45 24B 47 25B 49 26B	MZF 047
XA420	TT3	E1	30A	C055CA	00	=		
XA420	TT3	E1	33A	(64)	01		CX5XA0 CCE0F0 CXX5A0 70 33A 68 32A 66 31A	MIU 055
XA420	TT3	E2	29B	C056CA	00	=		
XA420	TT3	E2	29A	(55)	01		CCE0F0 CXX6A0 CX5XA0 62 29A 60 28A 53 28B	EXF 056
XA420	TT3	E3	33B	C056DA	00	=		
XA420	TT3	E3	30B	(63)	01		CX5XA0 CCE0H0 CXX6C0 57 30B 59 31B 61 32B	EXF 056- UNLOAD
XA420	TT3	F1	36B	C057CA	00	=		
XA420	TT3	F1	39B	(73)	01		CCE0F0 CXX7A0 CX5XA0 79 39B 77 38B 75 37B	SSE 057
XA421	TQ2	F4	39A	C057C0	00	=		
XA421	TQ2	F4	37A	(80)	01		C057CA SPA119 76 37A 78 38A	
XA419	TQ2	F4	39A	C057EA	00	=		
XA419	TQ2	F4	37A	(80)	01		SPA118 C057C0 76 37A 78 38A	
XA420	TT3	F2	35B	C061CA	00	=		
XA420	TT3	F2	36A	(74)	01		CX6XA0 CCE0F0 CXX1A0 71 36A 72 34A 65 34B	XSH 061
XA415	TQ2	F1	37B	C061C0	00	=		
XA415	TQ2	F1	39B	(75)	01		SPA115 C061CA 79 39B 77 38B	
XA420	TT3	F3	39A	C062CA	00	=		
XA420	TT3	F3	35A	(80)	01		CCE0F0 CX6XA0 CXX2A0 69 35A 76 37A 78 38A	XEF 062
XA418	TT3	A1	04A	C063CA	00	=		
XA418	TT3	A1	07A	(04)	01		CXX3A0 CCE0F0 CX6XA0 10 07A 08 06A 06 05A	XPF 063

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XA418	TT3	A2	03A	C064CA	00	=		
XA418	TT3	A2	03B	(07)	01		XDD 064 CX4A0 CX6A0 CCE0G0 05 03B 01 02B 03 02A	
XA418	TT3	A3	07B	C065CA	00	=		
XA418	TT3	A3	04B	(15)	01		XID 065 CX6A0 CXX5A0 CCE0G0 09 04B 11 05B 13 06B	
XA418	TT3	B1	11A	C066CA	00	=		
XA418	TT3	B1	14A	(20)	01		XEX 066 CCE0G0 CXX6A0 CX6A0 26 14A 24 13A 22 12A	
XA419	TQ2	A1	05A	C066C0	00	=		
XA419	TQ2	A1	07A	(06)	01		SPA116 C066CA 10 07A 08 06A	
XA418	TT3	B2	09B	C067CA	00	=		
XA418	TT3	B2	10A	(19)	01		ISZ 067 CX6A0 CXX7A0 CCE0G0 18 10A 14 09A 17 08B	
XA418	TT3	B3	13B	C070CA	00	=		
XA418	TT3	B3	10B	(27)	01		DEV 070 CCE0G0 CXX0A0 CX7A0 21 10B 23 11B 25 12B	
XA418	TT3	C1	17A	C071CA	00	=		
XA418	TT3	C1	20A	(36)	01		ITR 071 CCE0G0 CX7A0 CXX1A0 42 20A 40 19A 38 18A	
XA419	TQ2	A2	02B	C071C0	00	=		
XA419	TQ2	A2	04A	(01)	01		SPA116 C071CA 04 04A 05 03B	
XA418	TT3	C2	15B	C072CA	00	=		
XA418	TT3	C2	16A	(31)	01		HLT 072 CXX2A0 CCE0G0 CX7A0 34 16A 30 15A 29 14B	
XA419	TQ2	A3	04B	C072C0	00	=		
XA419	TQ2	A3	02A	(09)	01		SPA115 C072CA 03 02A 07 03A	
XA418	TT3	C3	19B	C073CA	00	=		
XA418	TT3	C3	16B	(39)	01		DIG 073 CCE0G0 CX7A0 CXX3A0 33 16B 35 17B 37 18B	
XA418	TT3	D1	23A	C074CA	00	=		
XA418	TT3	D1	26A	(50)	01		TXP 074 CX4A0 CX7A0 CCE0G0 56 26A 54 25A 52 24A	

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XA419	TQ2	A4	07B	C074C0	00	=		
XA419	TQ2	A4	05B	(15)	01		SPA116 C074CA 11 05B 13 06B	
XA418	TT3	D2	23B	C075CA	00	=		TIE 075
XA418	TT3	D2	22A	(43)	01		CCE0G0 CXX5A0 CX7XA0 48 22A 46 21A 41 22B	
XA419	TQ2	B1	12A	C075C0	00	=		
XA419	TQ2	B1	14A	(22)	01		C075CA SPA116 26 14A 24 13A	
XA418	TT3	D3	27B	C100CA	00	=		LLR 100
XA418	TT3	D3	24B	(51)	01		CX0XC0 CXX0C0 CCE1C0 45 24B 47 25B 49 26B	
XA308	TQ2	B2	09A	C100C0	00	=		BLO +00064DB1631
XA308	TQ2	B2	11A	(14)	01		SPI033 C100CA 20 11A 18 10A	
XA418	TT3	E1	30A	C116CA	00	=		RAH 116
XA418	TT3	E1	33A	(64)	01		CXX6C0 CX1XC0 CCE1C0 70 33A 68 32A 66 31A	
XA418	TT3	E2	29B	C117CA	00	=		RSH 117
XA418	TT3	E2	29A	(55)	01		CCE1C0 CX1XC0 CXX7C0 62 29A 60 28A 53 28B	
XA418	TT3	E3	33B	C121CA	00	=		CLL 121
XA418	TT3	E3	30B	(63)	01		CX2XC0 CCE1D0 CXX1C0 57 30B 59 31B 61 32B	
XA418	TT3	F1	36B	C122CA	00	=		CLH 122
XA418	TT3	F1	39B	(73)	01		CXX2C0 CX2XC0 CCE1D0 79 39B 77 38B 75 37B	
XA418	TT3	F2	35B	C124CA	00	=		CSH 124
XA418	TT3	F2	36A	(74)	01		CXX4C0 CX2XC0 CCE1D0 71 36A 72 34A 65 34B	
XA418	TT3	F3	39A	C125CA	00	=		IOH 125
XA418	TT3	F3	35A	(80)	01		CCE1D0 CX2XC0 CXX5C0 69 35A 76 37A 78 38A	
XA417	TT3	A1	04A	C126CA	00	=		EOH 126
XA417	TT3	A1	07A	(04)	01		CCE1D0 CX2XC0 CXX6C0 10 07A 08 06A 06 05A	

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XA417	TT3	A2	03A	C127CA	00	=		
XA417	TT3	A2	03B	(07)	01		CX2XCO CCE1D0 CXX7CO 05 03B 01 02B 03 02A	ANH 127
XA417	TT3	A3	07B	C130CA	00	=		
XA417	TT3	A3	04B	(15)	01		CCE1D0 CXX0CO CX3XCO 09 04B 11 05B 13 06B	FFH 130
XA419	TQ2	B2	09A	C130CO	00	=		
XA419	TQ2	B2	11A	(14)	01		SPA116 C130CA 20 11A 18 10A	
XA417	TT3	B1	11A	C131CA	00	=		
XA417	TT3	B1	14A	(20)	01		CCE1D0 CXX1CO CX3XCO 26 14A 24 13A 22 12A	FIH 131
XA417	TT3	B2	09B	C132CA	00	=		
XA417	TT3	B2	10A	(19)	01		CCE1D0 CX3XCO CXX2CO 18 10A 14 09A 17 08B	SHH 132
XA419	TQ2	B3	10B	C132CO	00	=		
XA419	TQ2	B3	08B	(21)	01		SPA116 C132CA 17 08B 19 09B	
XA417	TT3	B3	13B	C133CA	00	=		
XA417	TT3	B3	10B	(27)	01		CX3XCO CXX3CO CCE1E0 21 10B 23 11B 25 12B	TQR 133
XA419	TQ2	B4	13B	C133CO	00	=		
XA419	TQ2	B4	11B	(27)	01		C133CA SPA116 23 11B 25 12B	
XA417	TT3	C1	17A	C133DA	00	=		
XA417	TT3	C1	20A	(36)	01		CX33CO CCE1H0 SPA115 42 20A 40 19A 38 18A	TQR-UNLOAD
XA419	TQ2	C1	18A	C133D0	00	=		
XA419	TQ2	C1	20A	(38)	01		SPA117 C133DA 42 20A 40 19A	
XA415	TQ2	A1	05A	C133EA	00	=		
XA415	TQ2	A1	07A	(06)	01		C133E0 SPA114 10 07A 08 06A	
XA419	TQ2	C2	15A	C133E0	00	=		
XA419	TQ2	C2	17A	(30)	01		C133DA SPA116 36 17A 34 16A	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG. NOTATION	FACTOR	COMMENT
			AND	OR					
XA417	TT3	C2	15B		C134CA	00	=	RBT 134	
XA417	TT3	C2	16A		(31)	01		CXX4C0 CX3XC0 CCE1E0 94 16A 30 15A 29 14B	
XA417	TT3	C3	19B		C135CA	00	=	RTH 135	
XA417	TT3	C3	16B		(39)	01		CXX5C0 CCE1E0 CX3XC0 33 16B 35 17B 37 18B	
XA417	TT3	D1	23A		C136CA	00	=	REH 136	
XA417	TT3	D1	26A		(50)	01		CXX6C0 CCE1E0 CX3XC0 56 26A 54 25A 52 24A	
XA417	TT3	D2	23B		C137CA	00	=	RNH 137	
XA417	TT3	D2	22A		(43)	01		CX3XC0 CXX7C0 CCE1E0 48 22A 46 21A 41 22B	
XA417	TT3	D3	27B		C140CA	00	=	LDH 140	
XA417	TT3	D3	24B		(51)	01		CCE1E0 CXX0C0 CX4XC0 45 24B 47 25B 49 26B	
XA417	TT3	E1	30A		C141CA	00	=	LDL 141	
XA417	TT3	E1	33A		(64)	01		CX4XC0 CXX1C0 CCE1E0 70 33A 68 32A 66 31A	
XA417	TT3	E2	29B		C144CA	00	=	SMH 144	
XA417	TT3	E2	29A		(55)	01		CCE1E0 CX4XC0 CXX4C0 62 29A 60 28A 53 28B	
XA419	TQ2	C3	16B		C144C0	00	=		
XA419	TQ2	C3	14B		(33)	01		C144CA SPA116 29 14B 31 15B	
XA415	TQ2	A2	02B		C144EA	00	=		
XA415	TQ2	A2	04A		(01)	01		C144C0 SPA114 04 04A 05 03B	
XA417	TT3	E3	33B		C145CA	00	=	SDL 145	
XA417	TT3	E3	30B		(63)	01		CXX5C0 CX4XC0 CCE1F0 57 30B 59 31B 61 32B	
XA417	TT3	F1	36B		C146CA	00	=	SDH 146	
XA417	TT3	F1	39B		(73)	01		CX4XC0 CCE1F0 CXX6C0 79 39B 77 38B 75 37B	
XA417	TT3	F2	35B		C147CA	00	=	MZH 147	
XA417	TT3	F2	36A		(74)	01		CX4XC0 CXX7C0 CCE1F0 71 36A 72 34A 65 34B	

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CONNECTOR	TYPE	POINT	TEST POINTS AND OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
XA419	TQ2	E4	33B	C147C0	00 =			
XA419	TQ2	E4	31B	(63 )	01		SPA117 C147CA 59 31B 61 32B	
XA417	TT3	F3	39A	C155CA	00 =			
XA417	TT3	F3	35A	(80 )	01		CCE1F0 CX5XC0 CXX5C0 69 35A 76 37A 78 38A	MI1 155
XA416	TT3	A1	04A	C156CA	00 =			
XA416	TT3	A1	07A	(04 )	01		CCE1F0 CXX6C0 CX5XC0 10 07A 08 06A 06 05A	EXH 156
XA416	TT3	A2	03A	C157CA	00 =			
XA416	TT3	A2	03B	(07 )	01		CX5XC0 CXX7C0 CCE1F0 05 03B 01 02B 03 02A	MTH 157
XA419	TQ2	C4	19B	C157C0	00 =			
XA419	TQ2	C4	17B	(39 )	01		C157CA SPA116 35 17B 37 18B	
XA415	TQ2	A3	04B	C157EA	00 =			
XA415	TQ2	A3	02A	(09 )	01		SPA114 C157C0 03 02A 07 03A	
XA416	TT3	A3	07B	C160CA	00 =			
XA416	TT3	A3	04B	(15 )	01		CCE1F0 CX6XC0 CXX0C0 09 04B 11 05B 13 06B	XLK 160
XA415	TQ2	A4	07B	C160C0	00 =			
XA415	TQ2	A4	05B	(15 )	01		SPA114 C160CA 11 05B 13 06B	
XA416	TT3	B1	11A	C161CA	00 =			
XA416	TT3	B1	14A	(20 )	01		CCE1F0 CX6XC0 CXX1C0 26 14A 24 13A 22 12A	XIN 161
XA415	TQ2	B1	12A	C161C0	00 =			
XA415	TQ2	B1	14A	(22 )	01		SPA115 C161CA 26 14A 24 13A	
XA416	TT3	B2	09B	C162CA	00 =			
XA416	TT3	B2	10A	(19 )	01		CXX2C0 CCE1F0 CX6XC0 18 10A 14 09A 17 08B	XIIF 162
XA416	TT3	B3	13B	C163CA	00 =			
XA416	TT3	B3	10B	(27 )	01		CCE1F0 CX6XC0 CXX3C0 21 10B 23 11B 25 12B	XNF 163

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA416	TT3	C1	17A		C164CA	00	=	XDT 164	
XA416	TT3	C1	20A		(36)	01		CX6XC0 CCE1G0 CXX4C0 42 20A 40 19A 38 18A	
XA416	TT3	C2	15B		C165CA	00	=	XIT 165	
XA416	TT3	C2	16A		(31)	01		CCE1G0 CX6XC0 CXX5C0 34 16A 30 15A 29 14B	
XA416	TT3	C3	19B		C166CA	00	=	TSI 166	
XA416	TT3	C3	16B		(39)	01		CCE1G0 CX6XC0 CXX6C0 33 16B 35 17B 37 18B	
XA419	TQ2	D1	24A		C166C0	00	=		
XA419	TQ2	D1	25A		(52)	01		C166CA SPA117 56 26A 54 25A	
XA415	TQ2	B2	09A		C166EA	00	=		
XA415	TQ2	B2	11A		(14)	01		SPA115 C166C0 20 11A 18 10A	
XA415	TQ2	B3	10B		C166FA	00	=		
XA415	TQ2	B3	08B		(21)	01		SPA115 C166C0 17 08B 19 09B	
XA416	TT3	D1	23A		C167CA	00	=	TSO 167	
XA416	TT3	D1	26A		(50)	01		CCE1G0 CXX7C0 CX6XC0 56 26A 54 25A 52 24A	
XA416	TT3	D2	23B		C170CA	00	=	DEX 170	
XA416	TT3	D2	22A		(43)	01		CX7XC0 CCE1G0 CXX0C0 48 22A 46 21A 41 22B	
XA419	TQ2	D2	21A		C170C0	00	=		
XA419	TQ2	D2	23A		(46)	01		SPA117 C170CA 50 23A 48 22A	
XA416	TT3	D3	27B		C171CA	00	=	OFR 171	
XA416	TT3	D3	24B		(51)	01		CCE1G0 CXX1C0 CX7XC0 45 24B 47 25B 49 26B	
XA419	TQ2	D3	24B		C171C0	00	=		
XA419	TQ2	D3	22B		(45)	01		SPA117 C171CA 41 22B 43 23B	
XA416	TT3	E1	30A		C172CA	00	=	MBA 172	
XA416	TT3	E1	33A		(64)	01		CCE1G0 CX7XC0 CXX2C0 70 33A 68 32A 66 31A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA419	TQ2	D4	27B	C172C0	00	#		
XA419	TQ2	D4	25B	(51)	01		SPA117 C172CA 47 25B 49 26B	
XA416	TT3	E2	29B	C173CA	00	=		L10 173
XA416	TT3	E2	29A	(55)	01		CXX3C0 CCE1G0 CX7XC0 62 29A 60 28A 53 28B	
XA416	TT3	E3	33B	C174CA	00	*		TCP 174
XA416	TT3	E3	30B	(63)	01		CCE1G0 CX7XC0 CXX4C0 57 30B 59 31B 61 32B	
XA419	TQ2	E1	31A	C174C0	00	=		
XA419	TQ2	E1	33A	(66)	01		SPA117 C174CA 70 33A 68 32A	
XA419	TQ2	E2	28A	C174D0	00	=		
XA419	TQ2	E2	30A	(60)	01		C174CA SPA117 64 30A 62 29A	
XA419	TQ2	E3	30B	C174E0	00	=		
XA419	TQ2	E3	28B	(57)	01		SPA117 C174CA 53 28B 55 29B	
XA416	TT3	F1	36B	C175CA	00	=		L0D 175
XA416	TT3	F1	39B	(73)	01		CXX5C0 CX7XC0 CCE1G0 79 39B 77 38B 75 37B	
XA415	TQ2	F2	34A	C175C0	00	=		
XA415	TQ2	F2	36B	(72)	01		SPA115 C175CA 73 36B 71 36A	
XA245	TQ2	F1	37B	C200CA	00	=		DB 00-31 TO AC 00-31 DC0-A
XA245	TQ2	F1	39B	(75)	01		SPA061 C200C0 79 39B 77 38B	
XA246	TS8	F1	37A	C200C0	00	=		DB 00-31 TO AC 00-31 DC0-0
XA246	TS8	F1	39B	(76)	01		C200LA C200EA C200GA C200DA C200JA C200HA C200KA C200FA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA245	TQ2	F2	34A	C200DA	00	=		F3/F5/L13/L23/L33/L35/ES15-A
XA245	TQ2	F2	36B	(72)	01		C200D0 SPA060 73 36B 71 36A	
XA242	TS8	F1	37A	C200D0	00	*		F3/F5/L13/L23/L33/L35/ES15-0
XA242	TS8	F1	39B	(76)	01		CG23CA CF03CA CF05CA CG13CA CG35CA SPA059 C200XA CG33CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	

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XA245	TQ2	F3	35A	C200EA	00	H		
XA245	TQ2	F3	34B	(69)	01		CE00A0 C200M0 65 34B 74 35B	DB 00-31 TO AC 00-31 DCD-E0
XA245	TQ2	F4	39A	C200FA	00	=		
XA245	TQ2	F4	37A	(80)	01		CE01A0 C200N0 76 37A 78 38A	DB 00-31 TO AC 00-31 DCD-F1
XA245	TQ2	E2	28A	C200GA	00	=		
XA245	TQ2	E2	30A	(60)	01		C200P0 CE02A0 64 30A 62 29A	DB 00-31 TO AC 00-31 DCD-E2
XA245	TQ2	E3	30B	C200HA	00	=		
XA245	TQ2	E3	28B	(57)	01		CE03A0 C057C0 53 28B 55 29B	(SSF)-(ES03)
XA245	TQ2	E4	33B	C200JA	00	=		
XA245	TQ2	E4	31B	(63)	01		C200Q0 CE04A0 59 31B 61 32B	(CGF/CGH/CSE/CSH)-(ES04)
XA240	TQ2	F2	34A	C200KA	00	=		
XA240	TQ2	F2	36B	(72)	01		C200R0 CE05A0 73 36B 71 36A	(FEF/FEH/FIF/FIH)-(ES05)
XA240	TQ2	F3	35A	C200LA	00	=		
XA240	TQ2	F3	34B	(69)	01		CE07D0 CX31C0 65 34B 74 35B	(FIF/FIH)-(ES07)
XA241	TS8	F1	37A	C200M0	00	=		
XA241	TS8	F1	39B	(76)	01		C200VA C032CA SPA059 C200SA C200UA CX15DA C200TA CX2XAA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	DB 00-31 TO AC 00-31 FO INS.
XA242	TS8	E1	31B	C200N0	00	=		
XA242	TS8	E1	33A	(59)	01		C017CA C016CA CX67FA C200WA C133CA C057EA CX34FA C056CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	DB 00-31 TO AC 00-31 E1 INS.
XA243	TD4	F1	37A	C200P0	00	=		
XA243	TD4	F1	39B	(76)	01		CX23EA C133DA CX32CA CX67FA 79 39B 77 38B 75 37B 78 38A	TSZ/TSO/CGF/CGH/SHF/SHH - 0
XA245	TQ2	D2	21A	C200QA	00	=		
XA245	TQ2	D2	23A	(46)	01		C200Q0 SPA060 50 23A 48 22A	CGF/CGH/CSE/CSH - A
XA240	TQ2	F1	37B	C200Q0	00	=		
XA240	TQ2	F1	39B	(75)	01		CX24CA CX23EA 79 39B 77 38B	CGF/CGH/CSE/CSH - 0

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA240	TQ2	F4	39A	C200RA	00	=		FEF/FEH/FEI/FEH - A
XA240	TQ2	F4	37A	(80)	01		C200R0 SPA059 76 37A 78 38A	
XA245	TQ2	D1	24A	C200R0	00	=		FEF/FEH/FEI/FEH - 0
XA245	TQ2	D1	26A	(52)	01		CX30CA CX31CA 56 26A 54 25A	
XA240	TQ2	E1	31A	C200SA	00	=		ADF/ADH/ALE/ALH - A
XA240	TQ2	E1	33A	(66)	01		SPA058 C200S0 70 33A 68 32A	
XA245	TQ2	D3	24B	C200S0	00	=		ADF/ADH/ALE/ALH - 0
XA245	TQ2	D3	22B	(45)	01		CX12CA CX10CA 41 22B 43 23B	
XA240	TQ2	E2	28A	C200TA	00	=		SBE/SBH/SLE/SLH - A
XA240	TQ2	E2	30A	(60)	01		SPA058 C200T0 64 30A 62 29A	
XA245	TQ2	D4	27B	C200T0	00	=		SBE/SBH/SLE/SLH - 0
XA245	TQ2	D4	25B	(51)	01		CX13CA CX11CA 47 25B 49 26B	
XA240	TQ2	C1	18A	C200UA	00	=		XPF/XNF/XEF/XUF - A
XA240	TQ2	C1	20A	(38)	01		SPA058 C200U0 42 20A 40 19A	
XA245	TQ2	C2	15A	C200U0	00	=		XPF/XNF/XEF/XUF - 0
XA245	TQ2	C2	17A	(30)	01		CX62CA CX63CA 36 17A 34 16A	
XA240	TQ2	C2	15A	C200VA	00	=		XIQ/XIT/XDQ/XDT - A
XA240	TQ2	C2	17A	(30)	01		C200V0 SPA058 36 17A 34 16A	
XA245	TQ2	C3	16B	C200V0	00	=		XIQ/XIT/XDQ/XDT - 0
XA245	TQ2	C3	14B	(33)	01		CX64CA CX65CA 29 14B 31 15B	
XA240	TQ2	C3	16B	C200WA	00	=		REF/RNE/RIE/REH/RNH/RIH - A
XA240	TQ2	C3	14B	(33)	01		SPA058 C200W0 29 14B 31 15B	
XA244	TT3	C3	19B	C200W0	00	=		REF/RNE/RIE/REH/RNH/RIH - 0
XA244	TT3	C3	16B	(39)	01		CX37CA CX35CA CX36CA 33 16B 35 17B 37 18B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG. RATIO	FACTOR	COMMENT
XA240	TQ2	E3	30B	C200XA	00	=		
XA240	TQ2	E3	28B	(57)	01		C174C0 CE15C0 53 28B 55 29B	(TCP).(ES15)
XA245	TQ2	C4	19B	C200ZA	00	=		
XA245	TQ2	C4	17B	(39)	01		C174C0 CE12C0 35 17B 37 18B	
XA240	TQ2	C4	19B	C201CA	00	=		RST ACSE DECODE - A
XA240	TQ2	C4	17B	(39)	01		C201C0 SPA058 35 17B 37 18B	
XA245	TQ2	B3	10B	C201C0	00	=		RST ACSE DECODE - 0
XA245	TQ2	B3	08B	(21)	01		C201EA C201DA 17 08B 19 09B	
XA240	TQ2	B1	12A	C201DA	00	=		(CGF/CSE).(ES00)
XA240	TQ2	B1	14A	(22)	01		CE00A0 C201F0 26 14A 24 13A	
XA240	TQ2	B2	09A	C201EA	00	=		(CSF/CSH).(ES03)
XA240	TQ2	B2	11A	(14)	01		CX24C0 CE04A0 20 11A 18 10A	
XA245	TQ2	B4	13B	C201F0	00	=		CLF/CSF - 0
XA245	TQ2	B4	11B	(27)	01		C022CA C024CA 23 11B 25 12B	
XA240	TQ2	E4	33B	C202CA	00	=		(RAH/RSR/EXH/TSI).(ES01)
XA240	TQ2	E4	31B	(63)	01		CE01A0 C202D0 59 31B 61 32B	
XA243	TD4	F2	35A	C202D0	00	=		RAH/RSR/EXH/TSI - 0
XA243	TD4	F2	36B	(69)	01		C116CA C117CA C156CA C166CA 73 36B 71 36A 72 34A 74 35B	
XA240	TQ2	D1	24A	C203CA	00	=		CLEAR AC DECODE - A
XA240	TQ2	D1	26A	(52)	01		SPA058 C203C0 56 26A 54 25A	
XA244	TT3	D1	23A	C203C0	00	=		CLEAR AC DECODE - 0
XA244	TT3	D1	26A	(50)	01		C203FA C203DA C203EA 56 26A 54 25A 52 24A	
XA240	TQ2	D2	21A	C203DA	00	=		(MPF/MPH/RQF).(ES00)
XA240	TQ2	D2	23A	(46)	01		C203G0 CE00A0 50 23A 48 22A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA240	TQ2	D3	24B	C203EA	00	=		(LAF/LAH/LCF/LCH).(ES01)
XA240	TQ2	D3	22B	(45)	01		C203H0 CE01A0 41 22B 43 23B	
XA240	TQ2	D4	27B	C203FA	00	=		(DIE/DIH).(ES07)
XA240	TQ2	D4	25B	(51)	01		CX15C0 CE07C0 47 25B 49 26B	
XA245	TQ2	A1	05A	C203G0	00	=		MPF/MPH/ROE - 0
XA245	TQ2	A1	07A	(06)	01		C033CA CX14DA 10 07A 08 06A	
XA240	TQ2	B3	10B	C203HA	00	=		LAF/LAH/LCF/LCH - A
XA240	TQ2	B3	08B	(21)	01		SPA058 C203H0 17 08B 19 09B	
XA245	TQ2	A2	02B	C203H0	00	=		LAF/LAH/LCF/LCH - 0
XA245	TQ2	A2	04A	(01)	01		CX42CA CX43CA 04 04A 05 03B	
XA240	TQ2	B4	13B	C204CA	00	=		(MTH).(ES00)
XA240	TQ2	B4	11B	(27)	01		CE00A0 C157C0 23 11B 25 12B	
XA244	TT3	F1	36B	C205CA	00	=		(DIE).(CC12).(ES02)
XA244	TT3	F1	39B	(73)	01		C015C0 CE02F0 CC12BP 79 39B 77 38B 75 37B	
XA230	TD4	D2	24B	C206CA	00	=		
XA230	TD4	D2	23B	(45)	01		CX15C0 C205CA CE02F0 SPA102 43 23B 46 21A 48 22A 50 23A	
XA239	TD4	F1	37A	C207CA	00	=		(SHIF). (SNC). (CK=0)*. (ES03)
XA239	TD4	F1	39B	(76)	01		CE03A0 CKE1DA AMSNCO CKZRKA 79 39B 77 38B 75 37B 78 38A	
XA243	TD4	E2	30B	C207DA	00	=		(MPF/MPH).(ES02)
XA243	TD4	E2	30A	(57)	01		CS0EQ0 CX14C0 CS01P0 CS02Q0 64 30A 62 29A 60 28A 55 29B	
XA241	TS8	E1	31B	C208CA	00	=		(SHE). (NMZ). (CK=0)*. (ES03)
XA241	TS8	E1	33A	(59)	01		AMNMZ0 C132CA CE03A0 SPA061 SPA060 SPA059 CKE1DA CKZRKA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA240	TQ2	A1	05A	C209CA	00	=		(SHE/TOR).(ES02)
XA240	TQ2	A1	07A	(06)	01		CE02A0 C209D0 10 07A 08 06A	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
XA245	TQ2	A3	04B	C209D0	00	=		
XA245	TQ2	A3	02A	(09)	01		C133CA C032CA 03 02A 07 03A	SHF/TQR - 0
XA244	TT3	F2	35B	C209EA	00	=		
XA244	TT3	F2	36A	(74)	01		C032C0 C012BP CE02F0 71 36A 72 34A 65 34B	(SHF).(C012)*.(ES02)
XA243	TD4	D1	25B	C210CA	00	=		
XA243	TD4	D1	26A	(47)	01		CS0EQ0 CS04Q0 CX15D0 CS03P0 56 26A 54 25A 52 24A 49 26B	(DIF/DIH).(ES04)
XA242	TS8	D1	25B	C210DA	00	=		
XA242	TS8	D1	26A	(47)	01		SPA061 CK05Q0 SPA060 C033C0 CS03Q0 SPA059 CS02P0 CS0EQ0 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	(RQF).(CK05)*.(ES03)
XA243	TD4	D2	24B	C211CA	00	=		
XA243	TD4	D2	23A	(45)	01		CX15D0 CS0EQ0 CS06Q0 CS05P0 50 23A 48 22A 46 21A 43 23B	(DIF/DIH).(ES06)
XA243	TD4	C2	16B	C212CA	00	=		
XA243	TD4	C2	17A	(33)	01		CS0EQ0 CS03Q0 CX14C0 CS02P0 36 17A 34 16A 30 15A 31 15B	(MPF/MPH).(ES03)
XA241	TS8	D1	25B	C212DA	00	=		
XA241	TS8	D1	26A	(47)	01		CS02P0 CS03Q0 CKE1DA AMRFT0 SPA059 CS0EQ0 CKZRDA SPA060 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	(SHF).(RFT).(CK=0)*.(ES03)
XA242	TS8	C1	17B	C212EA	00	=		
XA242	TS8	C1	20A	(35)	01		CS02P0 CS03Q0 AMSNRO SPA059 CS0EQ0 CKZRDA CKE1DA C032C0 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	(SHF).(NL RT).(CK=0)*.(ES03)
XA241	TS8	C1	17B	C213CA	00	=		
XA241	TS8	C1	20A	(35)	01		CX15D0 CKZRDA CS0EQ0 CS05Q0 SPA061 SPA059 SPA060 CS04P0 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	(DIF/DIH).(CK=0)*.(ES05)
XA243	TD4	B2	10B	C213DA	00	=		
XA243	TD4	B2	11A	(21)	01		C033C0 CS01P0 CS02Q0 CS0EQ0 20 11A 18 10A 14 09A 19 09B	(RQF).(ES02)
XA242	TS8	B1	11B	C213EA	00	=		
XA242	TS8	B1	14A	(23)	01		CS02P0 CS03Q0 CS0EQ0 CKE1DA CKZRDA AMSNLO SPA059 C032C0 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	(SHF).(NL LET).(CK=0)*.(ES03)
XA240	TQ2	A2	02B	C214CA	00	=		
XA240	TQ2	A2	04A	(01)	01		C214C0 SPA057 04 04A 05 03B	DB 00-31 TO AY 00-31 DCD-A

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XA242	TS8	A1	05B	C214C0	00	=		DB 00-31 TO AY 00-31 DCD-0
XA242	TS8	A1	07A	(11)	01		C214HA C214JA C214EA C214FA C214DA C214GA C214KA C214LA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA240	TQ2	A3	04B	C214DA	00	=		DB 00-31 TO AY 00-31 DCD-E0
XA240	TQ2	A3	02A	(09)	01		C214MO CE00A0 03 02A 07 03A	
XA244	TT3	A1	04A	C214EA	00	=		DB 00-31 TO AY 00-31 DCD-E1
XA244	TT3	A1	07A	(04)	01		CE01A0 C214NO CCM0DA 10 07A 08 06A 06 05A	
XA240	TQ2	A4	07B	C214FA	00	=		(CLU/CLI) (ES02)
XA240	TQ2	A4	05B	(15)	01		CE02A0 CX21C0 11 05B 13 06B	
XA245	TQ2	A4	07B	C214GA	00	=		(CSE/CSH) (ES03)
XA245	TQ2	A4	05B	(15)	01		CX24C0 CE03A0 11 05B 13 06B	
XA238	TQ2	A1	05A	C214HA	00	=		(CSE/CSH) (ES05)
XA238	TQ2	A1	07A	(06)	01		CE05A0 CX24C0 10 07A 08 06A	
XA238	TQ2	A2	02B	C214JA	00	=		(RQE) (ES06)
XA238	TQ2	A2	04A	(01)	01		CE06A0 C033C0 04 04A 05 03B	
XA238	TQ2	A3	04B	C214KA	00	=		(FETCH STATE 04) (MODE 3)
XA238	TQ2	A3	02A	(09)	01		CF04C0 CM0D30 03 02A 07 03A	
XA238	TQ2	A4	07B	C214LA	00	=		FS00/L304 - A
XA238	TQ2	A4	05B	(15)	01		SPA057 C214L0 11 05B 13 06B	
XA236	TQ2	A1	05A	C214L0	00	=		FS00/L304 - 0
XA236	TQ2	A1	07A	(06)	01		CG34CA CF00CA 10 07A 08 06A	
XA241	TS8	A1	05B	C214M0	00	=		DB 00-31 TO AY 00-31 E0 INS
XA241	TS8	A1	07A	(11)	01		CX56CA CX35CA CX36CA CX46CA C057CA CX37CA C306GA C144CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA241	TS8	B1	11B	C214N0	00	=		DB 00-31 TO AY 00-31 E1 INS
XA241	TS8	B1	14A	(23)	01		C024CA C022CA C214RA C040CA C214PA C172CA C044CA C2140A 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	

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XA236	TQ2	A2	02B	C214PA	00	=		
XA236	TQ2	A2	04A	(01)	01		C214P0 SPA055 04 04A 05 03B	ALGEBRAIC FULL WORD INS. - A
XA237	TS8	A1	05B	C214P0	00	=		
XA237	TS8	A1	07A	(11)	01		C023CA C020CA C010CA C014CA C015CA C011CA C043CA C042CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	ALGEBRAIC FULL WORD INS. - 0
XA236	TQ2	A3	04B	C214QA	00	=		
XA236	TQ2	A3	02A	(09)	01		SPA055 C214Q0 03 02A 07 03A	LOGICAL INSTRUCTIONS - A
XA237	TS8	B1	11B	C214Q0	00	=		
XA237	TS8	B1	14A	(23)	01		C200RA CX13CA CX12CA CX25CA CX27CA SPA056 CX26CA CX32CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	LOGICAL INSTRUCTIONS - 0
XA238	TQ2	B1	12A	C214RA	00	=		
XA238	TQ2	B1	14A	(22)	01		SPA057 C214R0 26 14A 24 13A	TIE/LOD/TXP/TCP - A
XA244	TT3	A2	03A	C214R0	00	=		
XA244	TT3	A2	03B	(07)	01		CX74CA C075CA C175CA 05 03B 01 02B 03 02A	TIE/LOD/TXP/TCP - 0
XA243	TD4	A1	05B	C214SA	00	=		
XA243	TD4	A1	07A	(11)	01		CS03P0 CS04Q0 CX14C0 CS0E0 10 07A 08 06A 06 05A 13 06B	(MPF/MPH).(ES04)
XA243	TD4	A2	04B	C214TA	00	=		
XA243	TD4	A2	04A	(09)	01		CS03P0 CS04Q0 C200R0 CS0E0 04 04A 05 03B 01 02B 07 03A	(FEF/FEH/FIF/FIH).(ES04)
XA239	TD4	A1	05B	C215CA	00	=		
XA239	TD4	A1	07A	(11)	01		CS0E0 CS02P0 C033C0 CS03Q0 10 07A 08 06A 06 05A 13 06B	(RQF).(ES03)
XA244	TT3	A3	07B	C216CA	00	=		
XA244	TT3	A3	04B	(15)	01		C201F0 CE01A0 CCM0DA 09 04B 11 05B 13 06B	(CLF/CSF).(ES01).(MODE 0)*
XA244	TT3	B2	09B	C217CA	00	=		
XA244	TT3	B2	10A	(19)	01		C201F0 CE01A0 CCM0DO 18 10A 14 09A 17 08B	(CLF/CSF).(ES01).(MODE 0)
XA236	TQ2	A4	07B	C218CA	00	=		
XA236	TQ2	A4	05B	(15)	01		C033C0 CE00A0 11 05B 13 06B	(RQF).(ES00)

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA236	TQ2	B1	12A	C219CA	00 =			
XA236	TQ2	B1	14A	(22)	01		SPA055 C219C0 26 14A 24 13A	MASK TO AY 16-31 DECODE - A
XA235	TS8	A1	05B	C219C0	00 =			
XA235	TS8	A1	07A	(11)	01		CG22CA CG12CA C219GA C219DA SPIY01 SPA054 SPA055 C219EA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	MASK TO AY 16-31 DECODE - 0
XA236	TQ2	B2	09A	C219DA	00 =			
XA236	TQ2	B2	11A	(14)	01		CE00A0 C219F0 20 11A 18 10A	(SBT/RBT/TSZ/TSO).(ES00)
XA236	TQ2	B3	10B	C219EA	00 =			
XA236	TQ2	B3	08B	(21)	01		CE03A0 C133D0 17 08B 19 09B	(TOR).(ES03)
XA238	TQ2	B2	09A	C219F0	00 =			
XA238	TQ2	B2	11A	(14)	01		CX34FA CX67CA 20 11A 18 10A	SBT/RBT/TSZ/TSO
XA238	TQ2	B3	10B	C219GA	00 =			
XA238	TQ2	B3	08B	(21)	01		C174C0 CE14C0 17 08B 19 09B	(TCP).(ES14)
XA236	TQ2	B4	13B	C220CA	00 =			
XA236	TQ2	B4	11B	(27)	01		SPA055 C220C0 23 11B 25 12B	DB 16-31 TO AY 16-31 DCD-A
XA238	TQ2	B4	13B	C220C0	00 =			
XA238	TQ2	B4	11B	(27)	01		CF02CA C220DA 23 11B 25 12B	DB 16-31 TO AY 16-31 DCD-0
XA235	TS8	B1	11B	C220DA	00 =			
XA235	TS8	B1	14A	(23)	01		C306GA CE01A0 CCM0DA C220E0 SPA054 C214EA SPA055 CX21CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	DB 16-31 TO AY 16-31 DCD-E1
XA237	TS8	C1	17B	C220E0	00 =			
XA237	TS8	C1	20A	(35)	01		C157CA CX2XAA C203HA CX1XAA SPA057 CX40EA SPA056 SPA058 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	DB 16-31 TO AY 16-31 E1 INS.
XA239	TD4	A2	04B	C221AA	00 =			
XA239	TD4	A2	04A	(09)	01		CE01A0 C221CA SPA057 C221D0 04 04A 05 03B 01 02B 07 03A	(CLH/CSH).(ES01).(MODE 0)*
XA244	TT3	B3	13B	C221CA	00 =			
XA244	TT3	B3	10B	(27)	01		CE01A0 CCM0D0 C221D0 21 10B 23 11B 25 12B	(CLH/CSH).(ES01).(MODE 0)

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA236	TQ2	C1	18A	C221D0	00	=		
XA236	TQ2	C1	20A	(38)	01		C122CA C124CA 42 20A 40 19A	CLH/CSH - 0
XA236	TQ2	C2	15A	C222CA	00	=		(XIQ/XDO/XIT/XDT/TQR) (ES01)
XA236	TQ2	C2	17A	(30)	01		CE01D0 C222D0 36 17A 34 16A	
XA238	TQ2	C1	18A	C222D0	00	=		XIQ/XDO/XIT/XDT/TQR - 0
XA238	TQ2	C1	20A	(38)	01		C133CA C200VA 42 20A 40 19A	
XA236	TQ2	C3	16B	C223CA	00	=		(XIT/XDT) (ES01)
XA236	TQ2	C3	14B	(33)	01		CE01A0 C223D0 29 14B 31 15B	
XA238	TQ2	C2	15A	C223D0	00	=		XIT/XDT - 0
XA238	TQ2	C2	17A	(30)	01		C164CA C165CA 36 17A 34 16A	
XA238	TQ2	C3	16B	C224CA	00	=		ADDER TO AY SE-31 DECODE-A
XA238	TQ2	C3	14B	(33)	01		SPA057 C224C0 29 14B 31 15B	
XA235	TS8	C1	17B	C224C0	00	=		ADDER TO AY SE-31 DECODE-0
XA235	TS8	C1	20A	(35)	01		C224EA C224FA C224GA C224DA SPA056 SPA054 SPA055 CF06CA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA236	TQ2	C4	19B	C224DA	00	=		ADDER TO AY SE-31 DECODE-E2
XA236	TQ2	C4	17B	(39)	01		C224H0 CE02A0 35 17B 37 18B	
XA238	TQ2	C4	19B	C224EA	00	=		(CGF/CGH) (ES03)
XA238	TQ2	C4	17B	(39)	01		CX23C0 CE03F0 35 17B 37 18B	
XA236	TQ2	D1	24A	C224FA	00	=		(DIF/DIH) (ES10)
XA236	TQ2	D1	26A	(52)	01		CX15D0 CE10C0 56 26A 54 25A	
XA238	TQ2	D1	24A	C224GA	00	=		(FS04) (MODE 3)*
XA238	TQ2	D1	26A	(52)	01		CM0D3A CF04C0 56 26A 54 25A	
XA237	TS8	D1	25B	C224H0	00	=		ADDER TO AY SE-31 E2 INS.
XA237	TS8	D1	26A	(47)	01		SPA056 C157CA CX23CA CX43CA CX42CA C200SA C200TA C306GA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA238	TQ2	D2	21A		C225CA	00	=	(LAF/LAH) (ES02)	
XA238	TQ2	D2	23A		(46)	01	=	CE02A0 CX42C0 50 23A 48 22A	
XA236	TQ2	D2	21A		C226CA	00	=	DB 00-31 TO AQ 00-31 DCD=A	
XA236	TQ2	D2	23A		(46)	01	=	C226C0 SPA056 50 23A 48 22A	
XA235	TS8	D1	25B		C226C0	00	=	DB 00-31 TO AQ 00-31 DCD=0	
XA235	TS8	D1	26A		(47)	01	=	C226KA C226FA C226HA C226JA C226DA SPA055 C236GA C226EA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA236	TQ2	D3	24B		C226DA	00	=	DB 00-31 TO AQ 00-31 DCD=E0	
XA236	TQ2	D3	22B		(45)	01	=	CE00A0 C226L0 41 22B 43 23B	
XA236	TQ2	D4	27B		C226EA	00	=	(DEV/DEX/ITR/DER) (ES01)	
XA236	TQ2	D4	25B		(51)	01	=	C226M0 CE01D0 47 25B 49 26B	
XA238	TQ2	D4	27B		C226FA	00	=	DB 00-31 TO AQ 00-31 DCD=E2	
XA238	TQ2	D4	25B		(51)	01	=	C226N0 CE02A0 47 25B 49 26B	
XA238	TQ2	E1	31A		C226HA	00	=	(RQF) (ES04)	
XA238	TQ2	E1	33A		(66)	01	=	C033C0 CE04A0 70 33A 68 32A	
XA238	TQ2	E2	28A		C226JA	00	=	(FTE/FTH) (ES06)	
XA238	TQ2	E2	30A		(60)	01	=	CE06A0 CX31C0 64 30A 62 29A	
XA236	TQ2	E1	31A		C226KA	00	=	(TCP) (ES11)	
XA236	TQ2	E1	33A		(66)	01	=	C174C0 CE11C0 70 33A 68 32A	
XA237	TS8	E1	31B		C226L0	00	=	MPY/DVD/RQF/SHIFT/FORMAT = 0	
XA237	TS8	E1	33A		(59)	01	=	CX32CA SPA058 SPA057 C200RA CX15DA CX14DA C033CA SPA056 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA236	TQ2	E2	28A		C226MA	00	=	DEV/DEX/ITR/DER = A	
XA236	TQ2	E2	30A		(60)	01	=	SPA056 C226M0 64 30A 62 29A	
XA238	TQ2	D3	24B		C226M0	00	=	DEV/DEX/ITR/DER = 0	
XA238	TQ2	D3	22B		(45)	01	=	CX71CA CX70CA 41 22B 43 23B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
XA239	TD4	E1	31B	C226N0	00	=		(DIF/SHF).CC12*/CSE/CSH/SSF-0
XA239	TD4	E1	33A	(59)	01		CX24CA C226QA C226PA C057CA 70 33A 68 32A 66 31A 61 32B	
XA236	TQ2	E3	30B	C226PA	00	=		DIF.CC12* - A
XA236	TQ2	E3	28B	(57)	01		CC12BP C015C0 53 28B 55 29B	
XA238	TQ2	E3	30B	C226QA	00	=		SHF.CC12* - A
XA238	TQ2	E3	28B	(57)	01		CC12BP C032C0 53 28B 55 29B	
XA238	TQ2	E4	33B	C227CA	00	=		(SHF).(ES02)
XA238	TQ2	E4	31B	(63)	01		CE02A0 C032C0 59 31B 61 32B	
XA235	TS8	E1	31B	C228CA	00	=		(RT_SHIFT).(CK=0)*(ES03)
XA235	TS8	E1	33A	(59)	01		CS03Q0 CKE1DA CS02P0 C228D0 SPA055 CS0E0 SPA054 CKZRDA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA236	TQ2	E4	33B	C228D0	00	=		(SHIFT/FORMAT).(AY24)*
XA236	TQ2	E4	31B	(63)	01		AMFMRA AMSNRA 59 31B 61 32B	
XA238	TQ2	F1	37B	C228EA	00	=		(RQF).(ES05)
XA238	TQ2	F1	39B	(75)	01		CE05A0 C033C0 79 39B 77 38B	
XA237	TS8	F1	37A	C229CA	00	=		(LEFT_SHIFT).(CK=0)*(ES03)
XA237	TS8	F1	39B	(76)	01		SPA057 C229D0 CKE1DA CS0E0 CS03Q0 CKZRDA CS02P0 SPA056 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA239	TD4	F2	35A	C229D0	00	=		(SHIFT/FORMAT).(NMZ)*(AY24)
XA239	TD4	F2	36B	(69)	01		AMSNLA AMRFTA AMFHLA AMSNCA 73 36B 71 36A 72 34A 74 35B	
XA236	TQ2	F1	37B	C229EA	00	=		SLOW AQ LEFT SHIFT-A
XA236	TQ2	F1	39B	(75)	01		C229E0 SPA056 79 39B 77 38B	
XA244	TT3	F3	39A	C229E0	00	=		SLOW AQ LEFT SHIFT-0
XA244	TT3	F3	35A	(80)	01		C229FA C229JA C229GA 69 35A 76 37A 78 38A	
XA239	TD4	E2	30B	C229FA	00	=		(NORMALIZE).(CK=0)*(ES03)
XA239	TD4	E2	30A	(57)	01		CKE1DA CKZRKA CE03F0 AMNMZ0 64 30A 62 29A 60 28A 55 29B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM NATION	DESIG NATION	FACTOR	COMMENT
XA238	TQ2	F2	34A	C229GA	00	=		
XA238	TQ2	F2	36B	(72)	01		CE03F0 CX15D0 73 36B 71 36A	(DIF/DIH), (ES03)
XA239	TD4	D1	25B	C229HA	00	=		
XA239	TD4	D1	26A	(47)	01		CSOERO CX15D0 CS04P0 CS05Q0 56 26A 54 25A 52 24A 49 26B	(DIF/DIH), (ES05)
XA236	TQ2	F2	34A	C229JA	00	=		
XA236	TQ2	F2	36B	(72)	01		C033C0 CE01D0 73 36B 71 36A	(RQE), (ES01)
XA238	TQ2	F3	35A	C230CA	00	=		
XA238	TQ2	F3	34B	(69)	01		SPA057 C230C0 65 34B 74 35B	AI 00 TO AK CB DECODE - A
XA236	TQ2	F3	35A	C230C0	00	=		
XA236	TQ2	F3	34B	(69)	01		C230DA C230EA 65 34B 74 35B	AI 00 TO AK CB DECODE - 0
XA239	TD4	D2	24B	C230DA	00	=		
XA239	TD4	D2	23A	(45)	01		CX14DA CE02F0 CX1XD0 CX15DA 50 23A 48 22A 46 21A 43 23B	(ADD/SUBTRACT), (ES02)
XA238	TQ2	F4	39A	C230EA	00	=		
XA238	TQ2	F4	37A	(80)	01		CF04C0 CM0D3A 76 37A 78 38A	(FETCH STATE 04), (MODE 31)
XA236	TQ2	F4	39A	C231CA	00	=		
XA236	TQ2	F4	37A	(80)	01		CX15D0 CE03F0 76 37A 78 38A	(DIF/DIH), (ES03)
XA234	TQ2	F1	37B	C232CA	00	=		
XA234	TQ2	F1	39B	(75)	01		SPA054 C232C0 79 39B 77 38B	ADD CONTROL DECODE - A
XA230	TD4	E1	31B	C232C0	00	=		
XA230	TD4	E1	33A	(59)	01		CG31CA C232EA C232DA CF01CA 70 33A 68 32A 66 31A 61 32B	
XA234	TQ2	F2	34A	C232DA	00	=		
XA234	TQ2	F2	36B	(72)	01		CE01G0 C232F0 73 36B 71 36A	ADD CONTROL DECODE - E1
XA234	TQ2	F3	35A	C232EA	00	=		
XA234	TQ2	F3	34B	(69)	01		C200R0 CE02A0 65 34B 74 35B	(FFF/FEH/ETP/ETH), (ES02)



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA231	TS8	F1	37A	C232FO	00	=		ADD CONTROL DECODE E1 INS.
XA231	TS8	F1	39B	(176)	01		C157CA CX16CA C232GA SPA051 C232HA CX67CA CX24CA C200SA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA234	TQ2	F4	39A	C232GA	00	=		EOF/EQH/REF/REH - A
XA234	TQ2	F4	37A	(180)	01		SPA053 C232G0 76 37A 78 38A	
XA232	TQ2	F1	37B	C232G0	00	=		EOF/EQH/REF/REH - 0
XA232	TQ2	F1	39B	(175)	01		CX36CA CX26CA 79 39B 77 38B	
XA234	TQ2	E1	31A	C232HA	00	=		ANF/ANH/RNF/RNH - A
XA234	TQ2	E1	33A	(166)	01		C232H0 SPA053 70 33A 68 32A	
XA232	TQ2	F2	34A	C232H0	00	=		ANF/ANH/RNF/RNH - 0
XA232	TQ2	F2	36B	(172)	01		CX37CA CX27CA 73 36B 71 36A	
XA308	TQ2	F1	37B	C232JA	00	=		(SSF).(ES02)
XA308	TQ2	F1	39B	(175)	01		CE02FO C057C0 79 39B 77 38B	
XA232	TQ2	F3	35A	C233CA	00	=		SBTCT CONTROL DECODE - A
XA232	TQ2	F3	34B	(169)	01		SPA052 C233C0 65 34B 74 35B	
XA233	TS8	F1	37A	C233C0	00	=		SBTCT CONTROL DECODE - 0
XA233	TS8	F1	39B	(176)	01		C336KA CG11CA SPA053 SPA052 C233FA C233DA C233EA C233GA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA232	TQ2	E2	28A	C233DA	00	=		SBTCT CONTROL DECODE - E1
XA232	TQ2	E2	30A	(160)	01		CE01G0 C233H0 64 30A 62 29A	
XA232	TQ2	E3	30B	C233EA	00	=		(CGF/CGH).(ES03)
XA232	TQ2	E3	28B	(157)	01		CE03FO CX23C0 53 28B 55 29B	
XA232	TQ2	E4	33B	C233FA	00	=		(CSF/CSH).(ES05)
XA232	TQ2	E4	31B	(163)	01		CX24C0 CE05A0 59 31B 61 32B	
XA232	TQ2	F4	39A	C233GA	00	=		(FIF/FIH).(ES06)
XA232	TQ2	F4	37A	(180)	01		CX31C0 CE06A0 76 37A 78 38A	

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XA233	TSB	E1	31B	C233H0	00	=		SUBCT CONTROL DCD E1 INS.
XA233	TSB	E1	33A	(59)	01		C203HA CX14DA C134CA C233KA C233JA C033CA C057CA C133CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA234	TQ2	E2	28A	C233JA	00	=		COMPARE INSTRUCTIONS - A
XA234	TQ2	E2	30A	(60)	01		SPA053 C233J0 64 30A 62 29A	
XA239	TD4	C1	17B	C233J0	00	=		COMPARE INSTRUCTIONS - 0
XA239	TD4	C1	20A	(35)	01		CX20CA CX23CA CX22CA CX21CA 42 20A 40 19A 38 18A 37 18B	
XA234	TQ2	E3	30B	C233KA	00	=		SBE/SBH/SLE/SLH/RSE/RSH - A
XA234	TQ2	E3	28B	(57)	01		SPA053 C233K0 53 28B 55 29B	
XA229	TQ2	E1	31A	C233K0	00	=		SBE/SBH/SLE/SLH/RSE/RSH - 0
XA229	TQ2	E1	33A	(66)	01		C200TA CX17CA 70 33A 68 32A	
XA234	TQ2	E4	33B	C234CA	00	=		ARITH. CNTL CODES 6/7 DCD-A
XA234	TQ2	E4	31B	(63)	01		C234C0 SPA053 59 31B 61 32B	
XA232	TQ2	D1	24A	C234C0	00	=		ARITH. CNTL CODES 6/7 DCD-0
XA232	TQ2	D1	26A	(52)	01		C234DA C234EA 56 26A 54 25A	
XA234	TQ2	D1	24A	C234DA	00	=		(XIT/XIO/XDI/XDO) (ES01)
XA234	TQ2	D1	26A	(52)	01		CE01G0 C200V0 56 26A 54 25A	
XA234	TQ2	D2	21A	C234EA	00	=		(DVD/SHIF/CGE/CGH) (ES02)
XA234	TQ2	D2	23A	(46)	01		C234F0 CE02A0 50 23A 48 22A	
XA244	TT3	E3	33B	C234F0	00	=		DIF/DIH/SHE/SHH/CGE/CGH - 0
XA244	TT3	E3	30B	(63)	01		CX15DA CX32CA CX23CA 57 30B 59 31B 61 32B	
XA234	TQ2	D3	24B	C235CA	00	=		ARITH. CNTL CODE 7 DECODE-A
XA234	TQ2	D3	22B	(45)	01		C235D0 C234C0 41 22B 43 23B	
XA232	TQ2	D2	21A	C235D0	00	=		XDI/XDO/SHE/SHH - 0
XA232	TQ2	D2	23A	(46)	01		CX64CA CX32CA 50 23A 48 22A	

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XA232	TQ2	D3	24B	C236CA	00	=		AC 00-31 TO DB 00-31 DCD-A
XA232	TQ2	D3	22B	(45)	01		SPA052 C236C0 41 22B 43 23B	
XA233	TS8	D1	25B	C236C0	00	=		AC 00-31 TO DB 00-31 DCD-0
XA233	TS8	D1	26A	(47)	01		C236GA C236DA C236EA C506JA C236KA C236FA C236MA CG24CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA232	TQ2	D4	27B	C236DA	00	=		(IOF/IOH/RIE/RIH/SBT).(ES02)
XA232	TQ2	D4	25B	(51)	01		C236H0 CE02A0 47 25B 49 26B	
XA234	TQ2	D4	27B	C236EA	00	=		(EXF/EXH).(ES04)
XA234	TQ2	D4	25B	(51)	01		CE04A0 CX56C0 47 25B 49 26B	
XA232	TQ2	C1	18A	C236FA	00	=		(MPE/SHE-SNC/SHH-SNC).(ES05)
XA232	TQ2	C1	20A	(38)	01		CE05A0 C236J0 42 20A 40 19A	
XA229	TQ2	C2	15A	C236GA	00	=		(DIE/DIH).(ES07)
XA229	TQ2	C2	17A	(30)	01		CX15D0 CE07C0 36 17A 34 16A	
XA244	TT3	D2	23B	C236H0	00	=		IOF/IOH/RIE/RIH/SBT-0
XA244	TT3	D2	22A	(43)	01		CX25CA C034CA CX35CA 48 22A 46 21A 41 22B	
XA234	TQ2	C1	18A	C236J0	00	=		MPF/SHE-SNC/SHH-SNC - 0
XA234	TQ2	C1	20A	(38)	01		C014CA AMSNCA 42 20A 40 19A	
XA234	TQ2	C2	15A	C236KA	00	=		(TCP).(ES16)
XA234	TQ2	C2	17A	(30)	01		CE16C0 C174C0 36 17A 34 16A	
XA233	TS8	C1	17B	C236LA	00	=		(SHF).(SNC)*.(ES04)
XA233	TS8	C1	20A	(35)	01		SPA054 CS0E00 AMSNCA SPA052 C032C0 CS03P0 CS04Q0 SPA053 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA226	TQ2	A4	07B	C236MA	00	=		
XA226	TQ2	A4	05B	(15)	01		C166C0 CE03A0 11 05B 13 06B	
XA234	TQ2	B1	12A	C237CA	00	=		AY 00-31 TO DB 00-31 DCD-A
XA234	TQ2	B1	14A	(22)	01		SPA053 C237C0 26 14A 24 13A	

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XA233	TS8	B1	11B	C237C0	00	=													AY 00-31 TO DB 00-31 DCD=0				
XA233	TS8	B1	14A	(23)	01		CG24CA	C237GA	C236KA	SPA053	C237DA	C237HA	C237EA	C237FA	26 14A	24 13A	22 12A	20 11A	18 10A	14 09A	19 09B	25 12B	
XA232	TQ2	C3	16B	C237DA	00	=													AY 00-31 TO DB 00-31 DCD=E1				
XA232	TQ2	C3	14B	(33)	01		C237JO	CE01G0															
							29 14B	31 15B															
XA229	TQ2	C4	19B	C237EA	00	=													AY 00-31 TO DB 00-31 DCD=E2				
XA229	TQ2	C4	17B	(39)	01		C237KO	CE02F0															
							35 17B	37 18B															
XA234	TQ2	C3	16B	C237FA	00	=													AY 00-31 TO DB 00-31 DCD=E3				
XA234	TQ2	C3	14B	(33)	01		C237LO	CE03F0															
							29 14B	31 15B															
XA234	TQ2	C4	19B	C237GA	00	=													(RQE/LDD) (ES04)				
XA234	TQ2	C4	17B	(39)	01		CE04A0	C237M0															
							35 17B	37 18B															
XA234	TQ2	B2	09A	C237HA	00	=													(DIE/DIH/TIE/TXP/TCPL) (ES11)				
XA234	TQ2	B2	11A	(14)	01		CE11C0	C237N0															
							20 11A	18 10A															
XA239	TD4	C2	16B	C237JO	00	=													AY 00-31 TO DB 00-31 E1 INS.				
XA239	TD4	C2	17A	(33)	01		CX46CA	C144CA	C237QA	C237PA													
							36 17A	34 16A	30 15A	31 15B													
XA233	TS8	A1	05B	C237K0	00	=													AY 00-31 TO DB 00-31 E2 INS.				
XA233	TS8	A1	07A	(11)	01		C172CA	C044CA	C034CA	CX25CA	CX35CA	CX56CA	SPA052	CX40EA	10 07A	08 06A	06 05A	04 04A	05 03B	01 02B	07 03A	13 06B	
XA239	TD4	B1	11B	C237L0	00	=													AY 00-31 TO DB 00-31 E3 INS.				
XA239	TD4	B1	14A	(23)	01		C200SA	C200TA	C203HA	C157CA													
							26 14A	24 13A	22 12A	25 12B													
XA232	TQ2	B1	12A	C237M0	00	=													RQE/LDD = 0				
XA232	TQ2	B1	14A	(22)	01		C175CA	C033CA															
							26 14A	24 13A															
XA239	TD4	B2	10B	C237N0	00	=													DIE/DIH/TIE/TXP/TCR = 0				
XA239	TD4	B2	11A	(21)	01		CX15DA	C174CA	C075CA	C074CA													
							20 11A	18 10A	14 09A	19 09B													
XA230	TD4	A1	05B	C237PA	00	=													(XER TYPE INS) (MODE 0/2)				
XA230	TD4	A1	07A	(11)	01		C166CA	CX67CA	CX6X00	CC08BP													
							10 07A	08 06A	06 05A	13 06B													

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA232	TQ2	B2	09A		C237QA	00	N	(FMT/SET/BYTE/I-O/HLT).(MD 0)	
XA232	TQ2	B2	11A		(14)	01		CCH0D0 C237R0 20 11A 18 10A	
XA231	TS8	A1	05B		C237R0	00	=	FMT/SET/BYTE/I-O/HLT - 0	
XA231	TS8	A1	07A		(11)	01		C072CA C226MA CX32CA CX21CA SPA050 CX31CA CX30CA CX41CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA229	TQ2	B3	10B		C238CA	00	=	AQ 00-31 TO DB 00-31 DCD-A	
XA229	TQ2	B3	08B		(21)	01		SPA049 C238C0 17 08B 19 09B	
XA231	TS8	B1	11B		C238C0	00	=	AQ 00-31 TO DB 00-31 DCD-0	
XA231	TS8	B1	14A		(23)	01		C238HA C238EA C238FA C238DA C224FA C238GA SPA051 SPA052 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA234	TQ2	B3	10B		C238DA	00	=	(DEC/DEX/LTR/DEF).(ES02)	
XA234	TQ2	B3	08B		(21)	01		CE02F0 C226M0 17 08B 19 09B	
XA234	TQ2	B4	13B		C238EA	00	=	(SHF-SNC/SHH-SNC/SSE).(ES04)	
XA234	TQ2	B4	11B		(27)	01		C238K0 CE04A0 23 11B 25 12B	
XA230	TD4	D1	25B		C238FA	00	=		
XA230	TD4	D1	26B		(47)	01		C238L0 CE05A0 AMSNCA SPA102 49 26B 52 24A 54 25A 56 26A	
XA234	TQ2	A1	05A		C238GA	00	=	(RQF).(ES06)	
XA234	TQ2	A1	07A		(06)	01		C033C0 CE06A0 10 07A 08 06A	
XA234	TQ2	A2	02B		C238HA	00	=	(FIF/FIH).(ES10)	
XA234	TQ2	A2	04A		(01)	01		CE10C0 CX31C0 04 04A 05 03B	
XA230	TD4	A2	04B		C238JA	00	=	(SHH).(ES04)	
XA230	TD4	A2	04A		(09)	01		CS03P0 CS0400 CS0E00 C132C0 04 04A 05 03B 01 02B 07 03A	
XA229	TQ2	B4	13B		C238K0	00	=	SHF-SNC/SHH-SNC/SSE - 0	
XA229	TQ2	B4	11B		(27)	01		AMSNCA C057CA 23 11B 25 12B	
XA244	TT3	C1	17A		C238L0	00	=	FRMT/SHF/CSE/CSH - 0	
XA244	TT3	C1	20A		(36)	01		C200RA CX24CA C032CA 42 20A 40 19A 38 18A	

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XA234	TQ2	A3	04B	C239CA	00	=		AG 00-31 TO DB 00-31 DCD-A
XA234	TQ2	A3	02A	(09)	01		C239C0 SPA052 03 02A 07 03A	
XA231	TS8	C1	17B	C239C0	00	=		AG 00-31 TO DB 00-31 DCD-0
XA231	TS8	C1	20A	(35)	01		CG14CA SPA051 C238HA C239DA CG35CA C239FA C239EA SPA050 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA234	TQ2	A4	07B	C239DA	00	=		AG 00-31 TO DB 00-31 DCD-E2
XA234	TQ2	A4	05B	(15)	01		C239G0 CE02F0 11 05B 13 06B	
XA232	TQ2	A1	05A	C239EA	00	=		(CSF/CSH/TQR).(ES04)
XA232	TQ2	A1	07A	(06)	01		C239H0 CE04A0 10 07A 08 06A	
XA232	TQ2	A2	02B	C239FA	00	=		(FFF/FFH/FFI/FFJ).(ES06)
XA232	TQ2	A2	04A	(01)	01		C200R0 CE06A0 04 04A 05 03B	
XA231	TS8	D1	25B	C239G0	00	=		AG 00-31 TO DB 00-31 E2 INS.
XA231	TS8	D1	26A	(47)	01		CX24CA C057EA C232HA C134CA SPA051 SPA050 CX67CA SPA052 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA244	TT3	C2	15B	C239H0	00	=		CSE/CSH/TQR/SSF-0
XA244	TT3	C2	16A	(31)	01		CX24CA C057EA C133CA 34 16A 30 15A 29 14B	
XA232	TQ2	A3	04B	C240CA	00	=		OR AG AND AO VIA DATA BUS
XA232	TQ2	A3	02A	(09)	01		C238C0 C239C0 03 02A 07 03A	
XA232	TQ2	A4	07B	C241CA	00	=		AD 00-31 TO DB 00-31 DCD-A
XA232	TQ2	A4	05B	(15)	01		SPA051 C241C0 11 05B 13 06B	
XA230	TD4	B1	11B	C241C0	00	=		AD 00-31 TO DB 00-31 DCD-0
XA230	TD4	B1	14A	(23)	01		CF06CA C241DA C241FA C241EA 26 14A 24 13A 22 12A 25 12B	
XA229	TQ2	A1	05A	C241DA	00	=		(RAF/RAH/RSE/RSH).(ES02)
XA229	TQ2	A1	07A	(06)	01		C306G0 CE02F0 10 07A 08 06A	
XA229	TQ2	A2	02B	C241EA	00	=		(XIQ/XIT/XOO/XOT).(ES03)
XA229	TQ2	A2	04A	(01)	01		CE03F0 C200V0 04 04A 05 03B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESIGNATOR	FACTOR	COMMENT
XA229	TQ2	A3	04B	C241FA	00	=		(FETCH STATE 04).(MODE 3)*
XA229	TQ2	A3	02A	(09)	01		CM0D3A CF04C0 03 02A 07 03A	
XA229	TQ2	A4	07B	C242CA	00	=		AT 00-31 TO DB 00-31 DC0-A
XA229	TQ2	A4	05B	(15)	01		CE02F0 C232G0 11 05B 13 06B	
XA316	TQ2	A1	05A	C302CA	00	=		RST/SET CN06
XA316	TQ2	A1	07A	(06)	01		CE03C0 C172C0 10 07A 08 06A	
XA316	TQ2	A2	02B	C303CA	00	=		RST/SET CN08
XA316	TQ2	A2	04A	(01)	01		CE02C0 C071C0 04 04A 05 03B	
XA316	TQ2	A3	04B	C304CA	00	=		RST/SET CN10
XA316	TQ2	A3	02A	(09)	01		SPA077 C304C0 03 02A 07 03A	
XA317	TQ2	C1	18A	C304C0	00	=		
XA317	TQ2	C1	20A	(38)	01		C304FA C304DA 42 20A 40 19A	
XA316	TQ2	A4	07B	C304DA	00	=		E2.(DEV/DEX/ITR)
XA316	TQ2	A4	05B	(15)	01		C304E0 CE02C0 11 05B 13 06B	
XA317	TQ2	C2	15A	C304E0	00	=		DEV/DEX/ITR
XA317	TQ2	C2	17A	(30)	01		CX70CA C071CA 36 17A 34 16A	
XA316	TQ2	B1	12A	C304FA	00	=		E3.OFR
XA316	TQ2	B1	14A	(22)	01		CE03C0 C171C0 26 14A 24 13A	
XA316	TQ2	B2	09A	C306CA	00	=		SET CN12
XA316	TQ2	B2	11A	(14)	01		SPA077 C306C0 20 11A 18 10A	
XA315	TT3	A1	04A	C306C0	00	=		
XA315	TT3	A1	07A	(04)	01		C306MA C306JA C306DA 10 07A 08 06A 06 05A	
XA310	TT3	A1	04A	C306DA	00	=		E1.MODE.S(SO*.(INSTR)
XA310	TT3	A1	07A	(04)	01		CCMSC0 C306H0 CE01C0 10 07A 08 06A 06 05A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM.	DESIGNATOR	FACTOR	COMMENT
XA316	TQ2	B3	10B	C306EA	00	*		
XA316	TQ2	B3	08B	(21)	01	*	SPA077 C306E0 17 08B 19 09B	
XA312	TD4	B1	11B	C306E0	00	=		
XA312	TD4	B1	14A	(23)	01	*	CX41EA CX40CA CX43CA CX42CA 26 14A 24 13A 22 12A 25 12B	
XA314	TQ2	F3	35A	C306FA	00	=		
XA314	TQ2	F3	34B	(69)	01	*	SPA065 C306G0 65 34B 74 35B	
XA316	TQ2	B4	13B	C306GA	00	=		
XA316	TQ2	B4	11B	(27)	01	*	SPA077 C306G0 23 11B 25 12B	
XA317	TQ2	C3	16B	C306G0	00	=		RA/RS
XA317	TQ2	C3	14B	(33)	01	*	CX17CA CX16CA 29 14B 31 15B	
XA316	TQ2	C1	18A	C306HA	00	=		
XA316	TQ2	C1	20A	(38)	01	*	SPA078 C306H0 42 20A 40 19A	
XA313	YS8	A1	05B	C306H0	00	=		6F/MP/E/SH/C/IO/EO/AN/I
XA313	YS8	A1	07A	(11)	01	*	CX32EA C200RA CX2XAA C306EA C306KA SPA076 CX15DA C044CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA316	TQ2	C2	15A	C306JA	00	=		E3.(INSTR)
XA316	TQ2	C2	17A	(30)	01	*	C306L0 CE03C0 36 17A 34 16A	
XA316	TQ2	C3	16B	C306KA	00	=		
XA316	TQ2	C3	14B	(33)	01	*	C306K0 SPA077 29 14B 31 15B	
XA312	TD4	B2	10B	C306K0	00	=		AD/SB/AL/SI
XA312	TD4	B2	11A	(21)	01	*	CX10CA CX11CA CX13CA CX12CA 20 11A 18 10A 14 09A 19 09B	
XA315	TT3	A3	07B	C306L0	00	=		AD/SB/AL/SI/MTM
XA315	TT3	A3	04B	(15)	01	*	C157EA C306KA C306GA 09 04B 11 05B 13 06B	
XA316	TQ2	C4	19B	C306MA	00	=		E5.MP
XA316	TQ2	C4	17B	(39)	01	*	CE05C0 CX14C0 35 17B 37 18B	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERMS	DESIGNATOR	FACTOR	COMMENT
XA316	TQ2	D1	24A	C307CA	00	=		CLE CN1215
XA316	TQ2	D1	26A	(52)	01		C307D0 CE00C0 56 26A 54 25A	
XA313	TS8	B1	11B	C307D0	00	=		ROW1/ROW2/7E/6E/LM/SM/SD/EX/
XA313	TS8	B1	14A	(23)	01		CX44CA CX44CA C157CA C307EA CX1XAA C306EA CX2XAA CX56CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA316	TQ2	D2	21A	C307EA	00	=		
XA316	TQ2	D2	23A	(46)	01		C307E0 SPA078 50 23A 48 22A	
XA312	TD4	D1	25B	C307E0	00	=		FE/FI/SH/RQF
XA312	TD4	D1	26A	(47)	01		C033EA CX30CA CX31CA CX32EA 56 26A 54 25A 52 24A 49 26B	
XA316	TQ2	D3	24B	C308CA	00	=		SET CN13 CODE 1010
XA316	TQ2	D3	22B	(45)	01		C308C0 SPA078 41 22B 43 23B	
XA313	TS8	C1	17B	C308C0	00	=		
XA313	TS8	C1	20A	(35)	01		C308FA C308GA C308HA SPA078 SPA077 C308DA C455GA C308EA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA315	TT3	B1	11A	C308DA	00	=		E1.MODO.SISO*(INSTR)
XA315	TT3	B1	14A	(20)	01		CCMSC0 CE01C0 C308J0 26 14A 24 13A 22 12A	
XA316	TQ2	D4	27B	C308EA	00	=		E2.(INSTR)
XA316	TQ2	D4	25B	(51)	01		CE02C0 C308K0 47 25B 49 26B	
XA317	TQ2	D1	24A	C308FA	00	=		E3.(CLU/CLL)
XA317	TQ2	D1	26A	(52)	01		CX21C0 CE03C0 56 26A 54 25A	
XA317	TQ2	D2	21A	C308GA	00	=		E5-(CGF/CGH)
XA317	TQ2	D2	23A	(46)	01		CX23C0 CE05C0 50 23A 48 22A	
XA317	TQ2	D3	24B	C308HA	00	=		E6.(CSF/CSH)
XA317	TQ2	D3	22B	(45)	01		CX24C0 CE06C0 41 22B 43 23B	
XA317	TQ2	D4	27B	C308JA	00	=		
XA317	TQ2	D4	25B	(51)	01		C308J0 SPA079 47 25B 49 26B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA301	TS8	F1	37A	C308J0	00	=		F/SH/LD/LA/LMH
XA301	TS8	F1	39B	(76)	01		C044CA CX32EA CX40CA C200RA CX15EA CX42CA SPA069 SPA070 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA313	TS8	E1	31B	C308K0	00	=		AD/SB/AI/SL/RA/RS/MP/BL/BN
XA313	TS8	E1	33A	(59)	01		C306GA C308LA C308NA CX15DA C306KA SPIY01 SPA076 CX43CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA316	TQ2	E1	31A	C308LA	00	=		
XA316	TQ2	E1	33A	(66)	01		SPA078 C308L0 70 33A 68 32A	
XA317	TQ2	E1	31A	C308L0	00	=		CM/CLE/CLH
XA317	TQ2	E1	33A	(66)	01		CX22CA CX20CA 70 33A 68 32A	
XA316	TQ2	E2	28A	C308MA	00	=		
XA316	TQ2	E2	30A	(60)	01		SPA078 C308M0 64 30A 62 29A	
XA315	TT3	B2	09B	C308M0	00	=		ID/EO/AN
XA315	TT3	B2	10A	(19)	01		CX25CA CX27CA CX26CA 18 10A 14 09A 17 08B	
XA316	TQ2	E3	30B	C308NA	00	=		MDDO,STSD,AM
XA316	TQ2	E3	28B	(57)	01		C308M0 CCMSC0 53 28B 55 29B	
XA316	TQ2	E4	33B	C308PA	00	=		FAST MOP, E2,IMP/ROE1
XA316	TQ2	E4	31B	(63)	01		CE02C0 C308Q0 59 31B 61 32B	
XA317	TQ2	E2	28A	C308Q0	00	=		MP/RQF
XA317	TQ2	E2	30A	(60)	01		CX14DA C033EA 64 30A 62 29A	
XA316	TQ2	F1	37B	C309DA	00	=		SET CN13 C00 0010 FAST MOP
XA316	TQ2	F1	39B	(75)	01		CE02D0 CX42C0 79 39B 77 38B	
XA316	TQ2	F2	34A	C309EA	00	=		SET CN13 C00 0010 FAST MOP
XA316	TQ2	F2	36B	(72)	01		CX15E0 CE06C0 73 36B 71 36A	
XA316	TQ2	F3	35A	C310CA	00	=		SET CN14
XA316	TQ2	F3	34B	(69)	01		SPA078 C310C0 65 34B 74 35B	

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XA313	TS8	F1	37A	C310CO	00	=		
XA313	TS8	F1	39B	(76)	01		C310DA C310TA C310HA C455GA C310LA C310SA C308HA C310NA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA316	TQ2	F4	39A	C310DA	00	=		E1.(INSTR)
XA316	TQ2	F4	37A	(80)	01		CE01CO C310EO 76 37A 78 38A	
XA315	TT3	F1	36B	C310EO	00	=		10F/SMH/SD
XA315	TT3	F1	39B	(73)	01		C144CA C310FA CX46CA 79 39B 77 38B 75 37B	
XA317	TQ2	E3	30B	C310FA	00	=		MOD0.SISO*(10G)
XA317	TQ2	E3	28B	(57)	01		CCMSCO C310GO 53 28B 55 29B	
XA309	TS8	F1	37A	C310GO	00	=		F/SH/LD/LMH
XA309	TS8	F1	39B	(76)	01		C044CA SPA075 SPA074 CX32EA CX41EA CX40CA C200RA SPA076 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA314	TQ2	F1	37B	C310HA	00	=		
XA314	TQ2	F1	39B	(75)	01		C310JO CE02DO 79 39B 77 38B	
XA312	TD4	F1	37A	C310JO	00	=		10K/CM/CLF/CLH/EX/MTH
XA312	TD4	F1	39B	(76)	01		C310KA CX56CA SPA076 C308LA 79 39B 77 38B 75 37B 78 38A	
XA311	TQ2	F1	37B	C310KA	00	=		MOD0.SISO*(8M)
XA311	TQ2	F1	39B	(75)	01		CCMSCO C308MO 79 39B 77 38B	
XA311	TQ2	F2	34A	C310LA	00	=		E3.(10M)
XA311	TQ2	F2	36B	(72)	01		C310MO CE03CO 73 36B 71 36A	
XA312	TD4	F2	35A	C310MO	00	=		6K/RA/RS/CLU/CLL/LA/LC
XA312	TD4	F2	36B	(69)	01		C203HA CX21CA C306KA C306GA 73 36B 71 36A 72 34A 74 35B	
XA311	TQ2	F3	35A	C310NA	00	=		E5.(10P)
XA311	TQ2	F3	34B	(69)	01		CE05CO C310PO 65 34B 74 35B	
XA314	TQ2	F2	34A	C310PO	00	=		10Q/CG
XA314	TQ2	F2	36B	(72)	01		CX23EA C310QA 73 36B 71 36A	

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XA311	TQ2	F4	39A	C310QA	00	=		
XA311	TQ2	F4	37A	(80)	01		CN13BP CX14C0 76 37A 78 38A	MP, CN13*
XA315	TT3	F2	35B	C310SA	00	=		
XA315	TT3	F2	36A	(74)	01		CN13BP CE07C0 C033D0 71 36A 72 34A 65 34B	
XA315	TT3	F3	39A	C310TA	00	=		
XA315	TT3	F3	35A	(80)	01		CE11C0 CN13BP CX15E0 69 35A 76 37A 78 38A	
XA314	TQ2	F4	39A	C311CA	00	=		
XA314	TQ2	F4	37A	(80)	01		C311C0 C308C0 76 37A 78 38A	SET CN15
XA312	TD4	E1	31B	C311C0	00	=		
XA312	TD4	E1	33A	(59)	01		C311DA CX24EA CX23EA CX21CA 70 33A 68 32A 66 31A 61 32B	CM/CL/CC/MTM
XA314	TQ2	E1	31A	C311DA	00	=		
XA314	TQ2	E1	33A	(66)	01		SPA077 C311E0 70 33A 68 32A	E2, (INSTR)
XA308	TQ2	E4	33B	C311E0	00	=		
XA308	TQ2	E4	31B	(63)	01		C157EA C308LA 59 31B 61 32B	
XA311	TQ2	E2	28A	C335CA	00	=		
XA311	TQ2	E2	30A	(60)	01		C335C0 SPA075 64 30A 62 29A	RST TRAP
XA222	TQ2	C1	18A	C335C0	00	=		
XA222	TQ2	C1	20A	(38)	01		CRO1RA CF00CA 42 20A 40 19A	
XA311	TQ2	E3	30B	C336CA	00	=		
XA311	TQ2	E3	28B	(57)	01		CNO0BP C336C0 53 28B 55 29B	SET TRAP CODE 1101
XA312	TD4	A1	05B	C336C0	00	=		
XA312	TD4	A1	07A	(11)	01		C336KA C336FA C336DA SPI031 10 07A 08 06A 06 05A 13 06B	
XA315	TT3	E1	30A	C336DA	00	=		
XA315	TT3	E1	33A	(64)	01		CE01C0 C336E0 CCMSC0 70 33A 68 32A 66 31A	SET TRAP MOD0, SISO*

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XA314	TQ2	E3	30B	C336E0	00	=	LD/LMH	
XA314	TQ2	E3	28B	(57)	01		C7E2EA C044CA 53 28B 55 29B	
XA311	TQ2	E4	33B	C336FA	00	=		
XA311	TQ2	E4	31B	(63)	01		C336G0 CE02D0 59 31B 61 32B	
XA309	TS8	E1	31B	C336G0	00	=	AD/SBF/SBH/DI/RA/RS/LC/MTH	
XA309	TS8	E1	33A	(59)	01		CX15DA SPA078 SPA075 SPA074 CX11CA CX43CA C306GA CX10CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA309	TS8	D1	25B	C336HA	00	=	SET TRAP	CODE 1101
XA309	TS8	D1	25A	(47)	01		C336J0 SPA076 SPA075 SPA074 CNO0BP CS02Q0 CS01P0 CS0EHO 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA314	TQ2	E4	33B	C336J0	00	=		
XA314	TQ2	E4	31B	(63)	01		CX14DA C033EA 59 31B 61 32B	
XA314	TQ2	E2	28A	C336KA	00	=	ES03. MTH	
XA314	TQ2	E2	30A	(60)	01		C157C0 CE03P0 64 30A 62 29A	
XA309	TS8	C1	17B	C337CA	00	=	SET TRAP	CODE1111
XA309	TS8	C1	20A	(35)	01		CS0EHO CX15E0 CNO0BP SPA075 SPA074 CS0600 CS05P0 SPA076 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA310	TT3	E3	33B	C337DA	00	=	SET TRAP	CODE 1111
XA310	TT3	E3	30B	(63)	01		CE02D0 CNO0BP CX42C0 57 30B 59 31B 61 32B	
XA314	TQ2	D1	24A	C338CA	00	=	DTR M10015CC0015	
XA314	TQ2	D1	26A	(52)	01		SPA077 CF01C0 56 26A 54 25A	
XA314	TQ2	D2	21A	C339CA	00	=	LOA +00003CK0005	
XA314	TQ2	D2	23A	(46)	01		SPA077 CG30C0 50 23A 48 22A	
XA314	TQ2	D3	24B	C340CA	00	=	LOA +00037CK0005	
XA314	TQ2	D3	22B	(45)	01		CE01C0 C340D0 41 22B 43 23B	
XA315	TT3	E3	33B	C340D0	00	=	MP/DI/RQE	
XA315	TT3	E3	30B	(63)	01		CX14DA C033EA CX15DA 57 30B 59 31B 61 32B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA312	TD4	D2	24B	C341DA	00	=		
XA312	TD4	D2	23A	(45)	01		CS0EHO CS01P0 CS02Q0 C033D0 50 23A 48 22A 46 21A 43 23B	MOD -ICK
XA312	TD4	E2	30B	C341EA	00	=		
XA312	TD4	E2	30A	(57)	01		C341F0 CS0EHO CS02L0 CS03H0 64 30A 62 29A 60 28A 55 29B	MOD -ICK
XA315	TT3	D1	23A	C341F0	00	=		
XA315	TT3	D1	26A	(50)	01		CX140A C200RA CX32EA 56 26A 54 25A 52 24A	NP/F/SH
XA312	TD4	C1	17B	C341GA	00	=		
XA312	TD4	C1	20A	(35)	01		CS0EHO CS05Q0 CX15C0 CS04P0 42 20A 40 19A 38 18A 37 18B	MOD -ICK
XA314	TQ2	D4	27B	C342CA	00	=		
XA314	TQ2	D4	25B	(51)	01		SPA076 C342C0 47 25B 49 26B	MOD -00002CK0005
XA310	TT3	D3	27B	C342C0	00	=		
XA310	TT3	D3	24B	(51)	01		EV01CA CG43CA CG67CA 45 24B 47 25B 49 26B	L304/L607
XA311	TQ2	D1	24A	C343CA	00	=		
XA311	TQ2	D1	26A	(52)	01		SPA075 C343C0 56 26A 54 25A	BTR DB2631CK0005
XA309	TS8	B1	11B	C343C0	00	=		
XA309	TS8	B1	14A	(23)	01		CG65CA C343DA C343GA SPA075 CG50CA CG40CA SPA074 SPA077 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA311	TQ2	D2	21A	C343DA	00	=		
XA311	TQ2	D2	23A	(46)	01		CE01C0 C343E0 50 23A 48 22A	BTR DBCK
XA314	TQ2	C1	18A	C343E0	00	=		
XA314	TQ2	C1	20A	(38)	01		CX32EA C200RA 42 20A 40 19A	F/SH
XA311	TQ2	D4	27B	C343GA	00	=		
XA311	TQ2	D4	25B	(51)	01		C343H0 CG60C0 47 25B 49 26B	BTR DBCK
XA314	TQ2	C2	15A	C343H0	00	=		
XA314	TQ2	C2	17A	(30)	01		DB09DB C343JA 36 17A 34 16A	(EXIT*.TRAC.PLE3**)/PT09

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XA312	TD4	C2	16B	C343JA	00	=		EXIT*.TRAC.PLE3*.BTSP*-APOL
XA312	TD4	C2	17A	(33)	01		UPRLT0 CRO1BP CS0BBP PLE3CA 36 17A 34 16A 30 15A 31 15B	
XA311	TQ2	C1	18A	C343J0	00	=		EXIT*.TRAC.PLE3*.BTSP*- DPOL
XA311	TQ2	C1	20A	(38)	01		SPA075 C343JA 42 20A 40 19A	
XA311	TQ2	C2	15A	C344CA	00	=		MOD +00002CL0014
XA311	TQ2	C2	17A	(30)	01		SPA074 C344C0 36 17A 34 16A	
XA309	TS8	A1	05B	C344C0	00	=		
XA309	TS8	A1	07A	(11)	01		C344DA C344GA SPA076 SPA074 SPA075 ET14CA EU14CA C344EA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA315	TI3	D3	27B	C344DA	00	=		MOD +2CL
XA315	TI3	D3	24B	(51)	01		CRO2BP CF00C0 C066CA 45 24B 47 25B 49 26B	
XA311	TQ2	C3	16B	C344EA	00	=		MOD +2CL
XA311	TQ2	C3	14B	(33)	01		C344F0 CE03C0 29 14B 31 15B	
XA314	TQ2	C3	16B	C344F0	00	=		TSI/TSZ/TSO
XA314	TQ2	C3	14B	(33)	01		CI66CA CX67CA 29 14B 31 15B	
XA311	TQ2	C4	19B	C344GA	00	=		MOD +2CL
XA311	TQ2	C4	17B	(39)	01		CE04C0 C133C0 35 17B 37 18B	
XA308	TQ2	F3	35A	C344G0	00	=		
XA308	TQ2	F3	34B	(69)	01		C344GA SPI033 65 34B 74 35B	
XA314	TQ2	C4	19B	C345CA	00	=		BTR DB1630CL0014
XA314	TQ2	C4	17B	(39)	01		SPA076 C345C0 35 17B 37 18B	
XA307	TD4	D2	24B	C345C0	00	=		
XA307	TD4	D2	23A	(45)	01		C345DA C345MA E345CA C345FA 50 23A 48 22A 46 21A 43 23B	
XA314	TQ2	B1	12A	C345DA	00	=		BTR DB-CL
XA314	TQ2	B1	14A	(22)	01		CE02D0 C345E0 26 14A 24 13A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA315	TT3	B3	13B	C345E0	00	=		XER/XLK/XPF/XNE/XEF/XUE/
XA315	TT3	B3	10B	(27)	01		C200VA C200UA CX60CA 21 10B 23 11B 25 12B	
XA312	TD4	A2	04B	C345FA	00	=		BTR DB-CL
XA312	TD4	A2	04A	(09)	01		CE0200 C061C0 SPA075 C345G0 04 04A 05 03B 01 02B 07 03A	
XA307	TD4	A1	05B	C345G0	00	=		TRANSFER SW COMPARISON
XA307	TD4	A1	07A	(11)	01		C345HA C345JA C345KA C345LA 10 07A 08 06A 06 05A 13 06B	
XA314	TQ2	B2	09A	C345HA	00	=		SW1 COMPARE
XA314	TQ2	B2	11A	(14)	01		CC09BQ UCTR10 20 11A 18 10A	
XA311	TQ2	B1	12A	C345JA	00	=		SW2 COMPARE
XA311	TQ2	B1	14A	(22)	01		UCTR20 CC10BQ 26 14A 24 13A	
XA311	TQ2	B2	09A	C345KA	00	=		SW3 COMPARE
XA311	TQ2	B2	11A	(14)	01		UCTR30 CC11BQ 20 11A 18 10A	
XA311	TQ2	B3	10B	C345LA	00	=		SW4 COMPARE
XA311	TQ2	B3	08B	(21)	01		CC12Q0 UCTR40 17 08B 19 09B	
XA315	TT3	C1	17A	C345MA	00	=		BTR DB-CL
XA315	TT3	C1	20A	(36)	01		C161C0 C345N0 CE0200 42 20A 40 19A 38 18A	
XA307	TD4	A2	04B	C345N0	00	=		INDICATOR COMPARISON
XA307	TD4	A2	04A	(09)	01		C345RA C345QA C345SA C345PA 04 04A 05 03B 01 02B 07 03A	
XA311	TQ2	B4	13B	C345PA	00	=		CF COMPARE
XA311	TQ2	B4	11B	(27)	01		CC09BQ CN12BQ 23 11B 25 12B	
XA314	TQ2	B3	10B	C345QA	00	=		OE COMPARE
XA314	TQ2	B3	08B	(21)	01		CN13BQ CC10BQ 17 08B 19 09B	
XA314	TQ2	B4	13B	C345RA	00	=		EE COMPARE
XA314	TQ2	B4	11B	(27)	01		CC11BQ CN14BQ 23 11B 25 12B	



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XA314	TQ2	A1	05A	C345SA	00	=		
XA314	TQ2	A1	07A	(06)	01		CC12Q0 CN15BQ 10 07A 08 06A	LF COMPARE
XA311	TQ2	A1	05A	C346CA	00	=		
XA311	TQ2	A1	07A	(06)	01		CR02BP CF00C0 10 07A 08 06A	BLO C10014DB1630
XA311	TQ2	A2	02B	C346DA	00	=		
XA311	TQ2	A2	04A	(01)	01		CE00C0 C160C0 04 04A 05 03B	BLO C10014DB1630
XA314	TQ2	A2	02B	C347DA	00	=		
XA314	TQ2	A2	04A	(01)	01		CF00C0 CR02BQ 04 04A 05 03B	BLO +00036DB1631
XA314	TQ2	A3	04B	C347EA	00	=		
XA314	TQ2	A3	02A	(09)	01		C347F0 CG40C0 03 02A 07 03A	
XA307	TD4	B1	11B	C347F0	00	=		
XA307	TD4	B1	14A	(23)	01		C347HA C347GA CR00BP C347JA 26 14A 24 13A 22 12A 25 12B	PWRF/7G/7H/7J
XA311	TQ2	A3	04B	C347GA	00	=		
XA311	TQ2	A3	02A	(09)	01		CN01BP CR05BQ 03 02A 07 03A	LCIN.CN01*
XA311	TQ2	A4	07B	C347HA	00	=		
XA311	TQ2	A4	05B	(15)	01		CR01S0 CR05BP 11 05B 13 06B	LCIN*.EXIT
XA308	TQ2	A1	05A	C347JA	00	=		
XA308	TQ2	A1	07A	(06)	01		PL08BP CR05BP 10 07A 08 06A	LCIN*.PL08*
XA308	TQ2	A2	02B	C349CA	00	=		
XA308	TQ2	A2	04A	(01)	01		SPA073 C349C0 04 04A 05 03B	BLO +00060DB1631
XA315	TT3	A2	03A	C349C0	00	=		
XA315	TT3	A2	03B	(07)	01		C349FA C349DA CG50CA 05 03B 01 02B 03 02A	9D/9F/L500
XA308	TQ2	A3	04B	C349DA	00	=		
XA308	TQ2	A3	02A	(09)	01		C349E0 CE02D0 03 02A 07 03A	BLO +60DB

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA306	TQ2	B1	12A	C349E0	00	=		TCP/TIE/LDD
XA306	TQ2	B1	14A	(22)	01		C174CA CX75CA 26 14A 24 13A	
XA308	TQ2	A4	07B	C349FA	00	=		BLO +60DB
XA308	TQ2	A4	05B	(15)	01		CE05C0 C349G0 11 05B 13 06B	
XA306	TQ2	B2	09A	C349G0	00	=		TXP/TCP/TIE
XA306	TQ2	B2	11A	(14)	01		CX74CA C075CA 20 11A 18 10A	
XA308	TQ2	B1	12A	C350CA	00	=		BLO +00062DB1631
XA308	TQ2	B1	14A	(22)	01		CE13C0 C174D0 26 14A 24 13A	
XA308	TQ2	B3	10B	C352CA	00	=		BLO +00066DB1631
XA308	TQ2	B3	08B	(21)	01		CE02D0 C074C0 17 08B 19 09B	
XA308	TQ2	B4	13B	C353CA	00	=		BLO +00070DB1631
XA308	TQ2	B4	11B	(27)	01		C353C0 SPA073 23 11B 25 12B	
XA310	TT3	A2	03A	C353C0	00	=		
XA310	TT3	A2	03B	(07)	01		C353EA C353DA C353HA 05 03B 01 02B 03 02A	
XA315	TT3	C2	15B	C353DA	00	=		BLO +70DB
XA315	TT3	C2	16A	(31)	01		PL02BP PL03BP CG11C0 34 16A 30 15A 29 14B	
XA308	TQ2	C1	18A	C353EA	00	=		BLO +70DB
XA308	TQ2	C1	20A	(38)	01		CG21C0 C353F0 42 20A 40 19A	
XA305	TQ2	D2	21A	C353F0	00	=		(PT02*.PT03*)/EXIT
XA305	TQ2	D2	23A	(46)	01		CRO1P0 C353GA 50 23A 48 22A	
XA306	TQ2	B3	10B	C353GA	00	=		PT02*.PT03*
XA306	TQ2	B3	08B	(21)	01		PT02BP PT03BP 17 08B 19 09B	
XA308	TQ2	C3	16B	C353G0	00	=		
XA308	TQ2	C3	14B	(33)	01		C353GA PTR23A 29 14B 31 15B	

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XA306	TQ2	B4	13B	C353HA	00	=		BLO +70DB
XA306	TQ2	B4	11B	(27 )	01		C353G0 C631C0 23 11B 25 12B	
XA308	TQ2	C4	19B	C354CA	00	=		BLO +00072DB1631
XA308	TQ2	C4	17B	(39 )	01		PTR23A C354C0 35 17B 37 18B	
XA315	TT3	C3	19B	C354C0	00	=		
XA315	TT3	C3	16B	(39 )	01		C3540A C354GA C354EA 33 16B 35 17B 37 18B	
XA310	TT3	C1	17A	C354DA	00	=		BLO +72DB
XA310	TT3	C1	20A	(36 )	01		CG11C0 PLO2BP PLO3Q0 42 20A 40 19A 38 18A	
XA310	TT3	C2	15B	C354EA	00	=		BLO +72DB
XA310	TT3	C2	16A	(31 )	01		CRO1P0 C621C0 C354F0 34 16A 30 15A 29 14B	
XA306	TQ2	C1	18A	C354FA	00	=		PT02*.PT03
XA306	TQ2	C1	20A	(38 )	01		PT03Q0 PT02BP 42 20A 40 19A	
XA308	TQ2	D1	24A	C354F0	00	=		
XA308	TQ2	D1	26A	(52 )	01		SPA074 C354FA 56 26A 54 25A	
XA306	TQ2	C2	15A	C354GA	00	=		BLO +72DB
XA306	TQ2	C2	17A	(30 )	01		C354F0 C631C0 36 17A 34 16A	
XA306	TQ2	C3	16B	C355CA	00	=		BLO +00074DB1631
XA306	TQ2	C3	14B	(33 )	01		PTR23A C355C0 29 14B 31 15B	
XA315	TT3	D2	23B	C355C0	00	=		
XA315	TT3	D2	22A	(43 )	01		C355GA C355DA C355EA 48 22A 46 21A 41 22B	
XA310	TT3	D1	23A	C355DA	00	=		BLO +74DB
XA310	TT3	D1	26A	(50 )	01		CG11C0 PLO3BP PLO2Q0 56 26A 54 25A 52 24A	
XA310	TT3	D2	23B	C355EA	00	=		BLO +74DB
XA310	TT3	D2	22A	(43 )	01		CRO1P0 C355F0 C621C0 48 22A 46 21A 41 22B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA306	TQ2	C4	19B	C355FA	00	=		
XA306	TQ2	C4	17B	(39)	01		PT03BP PT02Q0 35 17B 37 18B	PT02,PT03*
XA308	TQ2	D2	21A	C355F0	00	=		
XA308	TQ2	D2	23A	(46)	01		SPA074 C355FA 50 23A 48 22A	
XA306	TQ2	D1	24A	C355GA	00	=		
XA306	TQ2	D1	26A	(52)	01		CG31C0 C355F0 56 26A 54 25A	BLO +74DB
XA308	TQ2	D3	24B	C356CA	00	=		
XA308	TQ2	D3	22B	(45)	01		PTR23A C356C0 41 22B 43 23B	BLO +00076DB1631
XA315	TT3	E2	29B	C356C0	00	=		
XA315	TT3	E2	29A	(55)	01		C356DA C356GA C356EA 62 29A 60 28A 53 28B	
XA310	TT3	E1	30A	C356DA	00	=		
XA310	TT3	E1	33A	(64)	01		PL02Q0 CG11C0 PL03Q0 70 33A 68 32A 66 31A	BLO +76DB
XA310	TT3	E2	29B	C356EA	00	=		
XA310	TT3	E2	29A	(55)	01		C356F0 CG21C0 CR01P0 62 29A 60 28A 53 28B	BLO +76DB
XA308	TQ2	E1	31A	C356FA	00	=		
XA308	TQ2	E1	33A	(66)	01		PT03Q0 PT02Q0 70 33A 68 32A	
XA306	TQ2	D2	21A	C356F0	00	=		
XA306	TQ2	D2	23A	(46)	01		C356FA SPA072 50 23A 48 22A	
XA308	TQ2	D4	27B	C356GA	00	=		
XA308	TQ2	D4	25B	(51)	01		C356F0 CG31C0 47 25B 49 26B	BLO +76DB
XA306	TQ2	D3	24B	C357CA	00	=		
XA306	TQ2	D3	22B	(45)	01		CX55C0 CE02G0 41 22B 43 23B	BLO CC0815DB2631
XA306	TQ2	D4	27B	C358CA	00	=		
XA306	TQ2	D4	25B	(51)	01		C358C0 SPA072 47 25B 49 26B	BLO CK0005DB2631

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA313	TS8	D1	25B	C358C0	00	=		
XA313	TS8	D1	25A	(47)	01		CG64CA C358FA C358DA C358EA CG61CA CG41CA CG51CA EU06CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	8D/8E/L401/L501/L601/L604/8F
XA310	TT3	F1	36B	C358DA	00	=		
XA310	TT3	F1	36A	(73)	01		C032D0 CE06C0 AMNLZ0 79 39B 77 38B 75 37B	BLO CK-DB
XA310	TT3	F2	35B	C358EA	00	=		
XA310	TT3	F2	35A	(74)	01		AMNLZ0 C132C0 CE05C0 71 36A 72 34A 65 34B	BLO CK-DB
XA308	TQ2	E2	28A	C358FA	00	=		
XA308	TQ2	E2	28A	(60)	01		PT08BP CG65C0 64 30A 62 29A	L605.PT08*
XA306	TQ2	E1	31A	C359CA	00	=		
XA306	TQ2	E1	31A	(66)	01		SPA073 C359C0 70 33A 68 32A	BLO CC0912DB2831
XA308	TQ2	E3	30B	C359C0	00	=		
XA308	TQ2	E3	28B	(57)	01		C359DA SPA073 53 28B 55 29B	
XA306	TQ2	E2	28A	C359DA	00	=		
XA306	TQ2	E2	30A	(60)	01		CE00C0 C359E0 64 30A 62 29A	BLO H-DB
XA310	TT3	F3	39A	C359E0	00	=		
XA310	TT3	F3	35A	(80)	01		CX67FA C157CA CX34CA 69 35A 76 37A 78 38A	SBI/RBI/MTI/TSZ/TSO
XA445	TQ2	B4	13B	C400CA	00	=		
XA445	TQ2	B4	11B	(27)	01		C404C0 CC09Q0 23 11B 25 12B	CC 09 TO CM G4 SLOW GATE - A
XA443	TS8	B1	11B	C400DA	00	=		
XA443	TS8	B1	14A	(23)	01		C404R0 C503L0 CS04H0 CC09Q0 SPA136 SPA135 SPA137 CS0E50 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	CC 09 TO CM G4 FAST GATE - A
XA446	TT3	B1	11A	C400EA	00	=		
XA446	TT3	B1	14A	(20)	01		C405C0 DB22C0 CC09Q0 26 14A 24 13A 22 12A	(CC09) (DB22) (SHE) (ES02)
XA445	TQ2	C1	18A	C401CA	00	=		
XA445	TQ2	C1	20A	(38)	01		CC10Q0 C404C0 42 20A 40 19A	CC 10 TO CM G5 SLOW GATE - A

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DRAWING NUMBER 149011-860

UNIT ASSEMBLY NO. 149011

REV. D

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C401DA

LOGIC

UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

FILE IDENT T39B2CP2

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESIGNATOR	FACTOR	COMMENT
XA443	TS8	C1	17B	C401DA	00	=		CC 10 TO CM G5 EAST GATE - A
XA443	TS8	C1	20A	(35)	01		C404R0 CS04H0 CC10Q0 SPA137 SPA136 SPA135 CS03L0 CS0ES0 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA446	TT3	B2	09B	C401EA	00	=		(CC10), (DB22), (SHE), (ES02)
XA446	TT3	B2	10A	(19)	01		DB22C0 CC10Q0 C405C0 18 10A 14 09A 17 08B	
XA445	TQ2	C2	15A	C402CA	00	=		CC 11 TO CM G6 SLOW GATE - A
XA445	TQ2	C2	17A	(30)	01		C404C0 CC11Q0 36 17A 34 16A	
XA443	TS8	D1	25B	C402DA	00	=		CC 11 TO CM G6 EAST GATE - A
XA443	TS8	D1	26A	(47)	01		C404R0 CS04H0 SPA138 SPA137 SPA136 CC11Q0 CS0ES0 CS03L0 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA446	TT3	B3	13B	C402EA	00	=		(CC11), (DB22), (SHE), (ES02)
XA446	TT3	B3	10B	(27)	01		C405C0 DB22C0 CC11Q0 21 10B 23 11B 25 12B	
XA446	TT3	C1	17A	C403CA	00	=		CC 12 TO CM G7 SLOW GATE - A
XA446	TT3	C1	20A	(36)	01		C404C0 CC12Q0 C403F0 42 20A 40 19A 38 18A	
XA443	TS8	E1	31B	C403DA	00	=		CC 12 TO CM G7 EAST GATE - A
XA443	TS8	E1	33A	(59)	01		SPA137 SPA136 C403GA CS0ES0 CS04H0 CS03L0 C404R0 CC12Q0 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA446	TT3	C2	15B	C403EA	00	=		(CC12)*, (DB22), (SHE), (ES02)
XA446	TT3	C2	16A	(31)	01		CC12BP C405C0 DB22C0 34 16A 30 15A 29 14B	
XA447	TD4	B1	11B	C403F0	00	=		ES00/ES02/ES03/ES06
XA447	TD4	B1	14A	(23)	01		CE06CA CE00CA CE03CA CE02CA 26 14A 24 13A 22 12A 25 12B	
XA445	TQ2	C3	16B	C403GA	00	=		H-EVEN TO GA E4 GATE - A
XA445	TQ2	C3	14B	(33)	01		AY22BQ C032D0 29 14B 31 15B	
XA443	TS8	F1	37A	C404C0	00	=		H TO GA CONTROL - 0
XA443	TS8	F1	39B	(76)	01		C224FA SPA137 C404DA C404FA C404HA C404GA C404EA C404KA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA446	TT3	F1	36B	C404DA	00	=		H TO GA CONTROL - ED - A
XA446	TT3	F1	39B	(73)	01		CX24EA C404L0 CE00G0 79 39B 77 38B 75 37B	

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX C404EA  
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CONNECTOR	TEST POINT	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA445	TQ2	C4	19B	C404EA	00	=		
XA445	TQ2	C4	17B	(39)	01		C404M0 CE02G0 35 17B 37 18B	H TO GA CONTROL - E2 - A
XA445	TQ2	D1	24A	C404FA	00	=		
XA445	TQ2	D1	26A	(52)	01		CE03G0 C404N0 56 26A 54 25A	H TO GA CONTROL - E3 - A
XA446	TT3	C3	19B	C404GA	00	=		
XA446	TT3	C3	16B	(39)	01		C404P0 AMSNDA CE05G0 33 16B 35 17B 37 18B	(SHF/MPF).(ES05)
XA445	TQ2	D2	21A	C404HA	00	=		
XA445	TQ2	D2	23A	(46)	01		CE06A0 C133C0 50 23A 48 22A	(TOR).(ES06)
XA445	TQ2	D3	24B	C404KA	00	=		
XA445	TQ2	D3	22B	(45)	01		CE11C0 CX15E0 41 22B 43 23B	(DIE/DIH).(ES11)
XA443	TS8	A1	05B	C404L0	00	=		
XA443	TS8	A1	07A	(11)	01		CX56EA CX6XAA CX4XAA CX3XAA SPA136 SPA135 CX1XAA CX2XCA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	H TO GA E0 INSTRUCTION DCD
XA442	TS8	B1	11B	C404M0	00	=		
XA442	TS8	B1	14A	(23)	01		C044EA CX25CA CX27CA C015CA CX41CA CX26CA CX40CA CX45CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	H TO GA E2 INSTRUCTION DCD
XA442	TS8	C1	17B	C404N0	00	=		
XA442	TS8	C1	20A	(35)	01		C166EA C203HA C200VA C057CA C200SA C200TA CX71CA CX24EA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	H TO GA E3 INSTRUCTION DCD
XA444	TQ2	A2	02B	C404P0	00	=		
XA444	TQ2	A2	04A	(01)	01		C032CA C014CA 04 04A 05 03B	SHF/MPF
XA446	TT3	D1	23A	C404R0	00	=		
XA446	TT3	D1	26A	(50)	01		CX56EA CX14DA CX32FA 56 26A 54 25A 52 24A	SHF/SHH/MPF/MPH/EXF/EXH
XA444	TQ2	D4	27B	C405CA	00	=		
XA444	TQ2	D4	25B	(51)	01		CE02G0 C032D0 47 25B 49 26B	(SHF).(ES02) - A
XA445	TQ2	D4	27B	C405C0	00	=		
XA445	TQ2	D4	25B	(51)	01		SPA138 C405CA 47 25B 49 26B	(SHF).(ES02) - 0

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX C406CA  
FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 198

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG- NATOR	FACTOR	COMMENT
XA444	TQ2	B1	12A	C406CA	00	=		ONE TO GA 03 CONTROL - A
XA444	TQ2	B1	14A	(22)	01		SPA137 C406C0 26 14A 24 13A	
XA447	TD4	B2	10B	C406C0	00	=		ONE TO GA 03 CONTROL - 0
XA447	TD4	B2	11A	(21)	01		C406GA C406EA C406FA C406DA 20 11A 18 10A 14 09A 19 09B	
XA444	TQ2	A3	04B	C406DA	00	=		(DIE1, ES02)
XA444	TQ2	A3	02A	(09)	01		C015C0 CE02G0 03 02A 07 03A	
XA446	TT3	D2	23B	C406EA	00	=		(SHE1, SNC)*, (ES05)
XA446	TT3	D2	22A	(43)	01		AMSNCA C032D0 CE05G0 48 22A 46 21A 41 22B	
XA444	TQ2	A4	07B	C406FA	00	=		(DIE/DTH), (ES11)
XA444	TQ2	A4	05B	(15)	01		CX15E0 CE11C0 11 05B 13 06B	
XA446	TT3	D3	27B	C406GA	00	=		(MODE 3)*, (S=1)*, (ES05)
XA446	TT3	D3	24B	(51)	01		CM0D3A CF05C0 CCS1CA 45 24B 47 25B 49 26B	
XA447	TD4	C1	17B	C406HA	00	=		(MPF), (ES04)
XA447	TD4	C1	20A	(35)	01		CS03L0 CS0ES0 C014C0 CS04H0 42 20A 40 19A 38 18A 37 18B	
XA445	TQ2	B1	12A	C407DA	00	=		(CSE/CSH/SSE), (ES00)
XA445	TQ2	B1	14A	(22)	01		CE00G0 C407F0 26 14A 24 13A	
XA447	TD4	C2	16B	C407EA	00	=		(FORMATS/CGE/CGH), (ES04)
XA447	TD4	C2	17A	(33)	01		CS0ES0 CS03L0 C407G0 CS04H0 36 17A 34 16A 30 15A 31 15B	
XA444	TQ2	B3	10B	C407F0	00	=		CSE/CSH/SSE
XA444	TQ2	B3	08B	(21)	01		C057CA CX24EA 17 08B 19 09B	
XA444	TQ2	D2	21A	C407G0	00	=		FIE/FIH/FEF/FEH/CGE/CGH
XA444	TQ2	D2	23A	(46)	01		C407HA CX23EA 50 23A 48 22A	
XA445	TQ2	E1	31A	C407HA	00	=		FIE/FIH/FEF/FEH- APOL
XA445	TQ2	E1	33A	(66)	01		SPA138 C407H0 70 33A 68 32A	

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX C407HO  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA444	TQ2	D3	24B	C407H0	00	=		FIF/FIH/FEF/FEH- OPOL
XA444	TQ2	D3	22B	(45)	01		CX31CA CX30CA 41 22B 43 23B	
XA446	TT3	E1	30A	C410CA	00	=		DB 16 TO CM G4 (GA 00)
XA446	TT3	E1	33A	(64)	01		C414CA C414D0 DB16C0 70 33A 68 32A 66 31A	
XA446	TT3	E2	29B	C411CA	00	=		DB 17 TO CM G5 (GA 01)
XA446	TT3	E2	29A	(55)	01		C414D0 C414CA DB17C0 62 29A 60 28A 53 28B	
XA446	TT3	E3	33B	C412CA	00	=		DB 18 TO CM G6 (GA 02)
XA446	TT3	E3	30B	(63)	01		C414CA C414D0 DB18C0 57 30B 59 31B 61 32B	
XA446	TT3	F2	35B	C413CA	00	=		DB 19 TO CM G7 (GA 03)
XA446	TT3	F2	36A	(74)	01		C414D0 C414CA DB19C0 71 36A 72 34A 65 34B	
XA444	TQ2	B4	13B	C414CA	00	=		DB 16 - 19 TO GA INHIBIT
XA444	TQ2	B4	11B	(27)	01		C032C0 DB22C0 23 11B 25 12B	
XA444	TQ2	C1	18A	C414DA	00	=		DB 16 - 19 TO GA CONTROL-A
XA444	TQ2	C1	20A	(38)	01		CE02G0 CX32C0 42 20A 40 19A	
XA445	TQ2	E2	28A	C414D0	00	=		DB 16 - 19 TO GA CONTROL-0
XA445	TQ2	E2	30A	(60)	01		SPA138 C414DA 64 30A 62 29A	
XA444	TQ2	C2	15A	C415CA	00	=		DB 27 TO CM G4 (GA 00)
XA444	TQ2	C2	17A	(30)	01		DB27C0 C419C0 36 17A 34 16A	
XA444	TQ2	C3	16B	C416CA	00	=		DB 28 TO CM G5 (GA 01)
XA444	TQ2	C3	14B	(33)	01		C419C0 DB28C0 29 14B 31 15B	
XA444	TQ2	C4	19B	C417CA	00	=		DB 29 TO CM G6 (GA 02)
XA444	TQ2	C4	17B	(39)	01		DB29C0 C419C0 35 17B 37 18B	
XA444	TQ2	D1	24A	C418CA	00	=		DB 30 TO CM G7 (GA 03)
XA444	TQ2	D1	26A	(52)	01		DB30C0 C419C0 56 26A 54 25A	

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX C419C0  
FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 200

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERMINAL	DESIGNATOR	FACTOR	COMMENT
XA446	TT3	F3	39A	C419C0	00	=		
XA446	TT3	F3	35A	(80)	01		C419EA C419DA CG42CA 69 35A 76 37A 78 38A	DB 27-30 TO GA CONTROL - 0
XA444	TQ2	E1	31A	C419DA	00	=		
XA444	TQ2	E1	33A	(66)	01		CF03C0 CMOD30 70 33A 68 32A	(FS03) (MODE 3)
XA444	TQ2	E2	28A	C419EA	00	=		
XA444	TQ2	E2	30A	(60)	01		C066CA CFOIC0 64 30A 62 29A	(XEX)* (FS01)
XA445	TQ2	F1	37B	C420CA	00	=		
XA445	TQ2	F1	39B	(75)	01		C424C0 MA11BP 79 39B 77 38B	MA 11 TO CM G4 (GA 00)
XA445	TQ2	F2	34A	C421CA	00	=		
XA445	TQ2	F2	36B	(72)	01		C424C0 MA12BP 73 36B 71 36A	MA 12 TO CM G5 (GA 01)
XA445	TQ2	F3	35A	C422CA	00	=		
XA445	TQ2	F3	34B	(69)	01		MA13BP C424C0 65 34B 74 35B	MA 13 TO CM G6 (GA 02)
XA445	TQ2	F4	39A	C423CA	00	=		
XA445	TQ2	F4	37A	(80)	01		MA14BP C424C0 76 37A 78 38A	MA 14 TO CM G7 (GA 03)
XA442	TS8	D1	25B	C424C0	00	=		
XA442	TS8	D1	26A	(47)	01		C424HA C424FA C424EA C424DA C424QA C424PA C424JA C424GA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	MA 11-14 TO GA CONTROL-0
XA447	TD4	D1	25B	C424DA	00	=		
XA447	TD4	D1	26A	(47)	01		CE01G0 CTRINA CXOXAA C073CA 56 26A 54 25A 52 24A 49 26B	MA 11-14 TO GA CONTROL-E1-A
XA444	TQ2	E3	30B	C424EA	00	=		
XA444	TQ2	E3	28B	(57)	01		CE02G0 C424K0 53 28B 55 29B	MA 11-14 TO GA CONTROL-E2-A
XA444	TQ2	E4	33B	C424FA	00	=		
XA444	TQ2	E4	31B	(63)	01		CE03G0 C424L0 59 31B 61 32B	MA 11-14 TO GA CONTROL-E3-A
XA444	TQ2	F1	37B	C424GA	00	=		
XA444	TQ2	F1	39B	(75)	01		C424M0 CE04A0 79 39B 77 38B	(TSI/MTN) (FS04)

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX C424HA  
FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 201

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA444	TQ2	F2	34A	C424HA	00	=		
XA444	TQ2	F2	36B	(72)	01		C424N0 CE05G0 73 36B 71 36A	(TOR/SSF). (ES05)
XA444	TQ2	F3	35A	C424JA	00	=		
XA444	TQ2	F3	34B	(69)	01		CE07C0 C033D0 65 34B 74 35B	(RQE). (ES07)
XA444	TQ2	F4	39A	C424KA	00	=		
XA444	TQ2	F4	37A	(80)	01		C424K0 SPA168 76 37A 78 38A	
XA442	TSB	E1	31B	C424K0	00	=		
XA442	TSB	E1	33A	(59)	01		CX47CA C133EA SPA137 SPA136 SPA135 C166EA C144CA CX46EA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	TOR/SMH/SD/SDH/MZF/MZH/TSI
XA442	TSB	F1	37A	C424L0	00	=		
XA442	TSB	F1	39B	(76)	01		CX55CA SPA136 CX34CA C200WA SPA135 CX56EA C306FA CX45CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	MA 11-14 TO GA E3 INS. DCD
XA445	TQ2	E3	30B	C424M0	00	=		
XA445	TQ2	E3	28B	(57)	01		C166EA C157EA 53 28B 55 29B	MTH/TSI
XA445	TQ2	E4	33B	C424N0	00	=		
XA445	TQ2	E4	31B	(63)	01		C133EA C057EA 59 31B 61 32B	SSF/TOR
XA441	TQ2	A1	05A	C424PA	00	=		
XA441	TQ2	A1	07A	(06)	01		C066C0 CF01C0 10 07A 08 06A	(XEX). (ES01)
XA441	TQ2	A2	02B	C424QA	00	=		
XA441	TQ2	A2	04A	(01)	01		C424R0 C424SA 04 04A 05 03B	RAF/RAH/RSF/RSR- APOL
XA440	TQ2	A1	05A	C424R0	00	=		
XA440	TQ2	A1	07A	(06)	01		CF04CA CG67CA 10 07A 08 06A	(FS 04) / (L6-07)
XA440	TQ2	A2	02B	C424SA	00	=		
XA440	TQ2	A2	04A	(01)	01		CF04C0 CM0D3A 04 04A 05 03B	(FS 04). (MODE 3)*
XA441	TQ2	A3	04B	C426CA	00	=		
XA441	TQ2	A3	02A	(09)	01		CC13BQ C429C0 03 02A 07 03A	CC 13 TO CM G5 (GA 01)

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX C427CA  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA441	TQ2	A4	07B	C427CA	00	=		
XA441	TQ2	A4	05B	(15)	01		C429C0 CC148Q 11 05B 13 06B	CC 14 TO CM G6 (GA 02)
XA441	TQ2	B1	12A	C428CA	00	=		
XA441	TQ2	B1	14A	(22)	01		CC15BQ C429C0 26 14A 24 13A	CC 15 TO CM G7 (GA 03)
XA440	TQ2	A3	04B	C429C0	00	=		
XA440	TQ2	A3	02A	(09)	01		C429DA C429EA 03 02A 07 03A	S TO GA 01-03 CONTROL - 0
XA441	TQ2	B2	09A	C429DA	00	=		
XA441	TQ2	B2	11A	(14)	01		CF03C0 CMOD3A 20 11A 18 10A	(ES03), (MODE 3)*
XA441	TQ2	B3	10B	C429EA	00	=		
XA441	TQ2	B3	08B	(21)	01		CF05C0 CMOD30 17 08B 19 09B	(ES05), (MODE 3)
XA440	TQ2	A4	07B	C430CA	00	=		
XA440	TQ2	A4	05B	(15)	01		MA008P C434C0 11 05B 13 06B	MA 00 TO CM G4 (GA 00)
XA440	TQ2	B1	12A	C431CA	00	=		
XA440	TQ2	B1	14A	(22)	01		MA018P C434C0 26 14A 24 13A	MA 01 TO CM G5 (GA 01)
XA440	TQ2	B2	09A	C432CA	00	=		
XA440	TQ2	B2	11A	(14)	01		C434C0 MA028P 20 11A 18 10A	MA 02 TO CM G6 (GA 02)
XA440	TQ2	B3	10B	C433CA	00	=		
XA440	TQ2	B3	08B	(21)	01		C434C0 MA038P 17 08B 19 09B	MA 03 TO CM G7 (GA 03)
XA447	TD4	D2	24B	C434C0	00	=		
XA447	TD4	D2	23A	(45)	01		C434EA C434GA C434DA C200LA 50 23A 48 22A 46 21A 43 23B	MA 00-03 TO GA CONTROL - 0
XA441	TQ2	B4	13B	C434DA	00	=		
XA441	TQ2	B4	11B	(27)	01		C434HO CE05G0 23 11B 25 12B	(SHH/(SHE), (SNC1), (ES05)
XA441	TQ2	C1	18A	C434EA	00	=		
XA441	TQ2	C1	20A	(38)	01		C434JO CE06A0 42 20A 40 19A	(FEF/FEH/SHE), (ES06)

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	REF ID	FACTOR	COMMENT
XA441	TQ2	C2	15A	C434GA	00	=		
XA441	TQ2	C2	17A	(30)	01		CE10C0 CX31C0 36 17A 34 16A	(FIF/FIH).(ES10)
XA440	TQ2	B4	13B	C434H0	00	=		
XA440	TQ2	B4	11B	(27)	01		C132CA AMSNCA 23 11B 25 12B	SHH/SNC
XA440	TQ2	C1	18A	C434J0	00	=		
XA440	TQ2	C1	20A	(38)	01		C032CA CX30CA 42 20A 40 19A	FEE/FEH/SHF
XA440	TQ2	C2	15A	C450CA	00	=		
XA440	TQ2	C2	17A	(30)	01		SPA134 C450C0 36 17A 34 16A	UNQUALIFIED DB TO GR FULL-A
XA439	TS8	A1	05B	C450C0	00	=		
XA439	TS8	A1	07A	(11)	01		C450TA C450GA C450EA C450DA CG67CA C450HA C450FA C450SA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	UNQUALIFIED DB TO GR FULL-0
XA441	TQ2	C3	16B	C450DA	00	=		
XA441	TQ2	C3	14B	(33)	01		CE02G0 C450J0 29 14B 31 15B	UNQUALIFIED DB TO GR FULL-E2
XA441	TQ2	C4	19B	C450EA	00	=		
XA441	TQ2	C4	17B	(39)	01		C450K0 CE03G0 35 17B 37 18B	UNQUALIFIED DB TO GR FULL-E3
XA438	TT3	A1	04A	C450FA	00	=		
XA438	TT3	A1	07A	(04)	01		C450LA CE05G0 CX32C0 10 07A 08 06A 06 05A	(SHH/SHF.(NMZ.AY22*)).(ES05)
XA440	TQ2	C3	16B	C450GA	00	=		
XA440	TQ2	C3	14B	(33)	01		CE06A0 C450M0 29 14B 31 15B	(FEE/SHF/(TQR.ACZR*)).(ES06)
XA438	TT3	A2	03A	C450HA	00	=		
XA438	TT3	A2	03B	(07)	01		CX31C0 CCE0H0 CE10C0 05 03B 01 02B 03 02A	(FIF).(ES10)
XA439	TS8	B1	11B	C450J0	00	=		
XA439	TS8	B1	14A	(23)	01		CX40CA SPA136 SPA135 C025CA SPA134 CX41CA C026CA C027CA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	IQF/ANF/EDF/LDF/LDH/LDU/LDI
XA447	TD4	E1	31B	C450K0	00	=		
XA447	TD4	E1	33A	(59)	01		C071CA C200TA C200SA C203HA 70 33A 68 32A 66 31A 61 32B	ADDS/SUBS/LABS/LCHPS/ITR

3-2880-1

DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
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UNIT ASSEMBLY NO. 149011 REV. D INDEX C451EA

LOGIC

UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERMINAL	DESIGNATOR	FACTOR	COMMENT
XA441	TQ2	F2	34A	C451EA	00	=		(SDF/MZF).(ES02)
XA441	TQ2	F2	36B	(72)	01		C451J0 CE02G0 73 36B 71 36A	
XA441	TQ2	F3	35A	C451FA	00	=		QUALIFIED GR TO DB FULL - F3
XA441	TQ2	F3	34B	(69)	01		C451K0 CE03G0 65 34B 74 35B	
XA441	TQ2	F4	39A	C451GA	00	=		(SSF/TQR).(ES05)
XA441	TQ2	F4	37A	(80)	01		CE05G0 C451L0 76 37A 78 38A	
XA438	TT3	F1	36B	C451HA	00	=		(RQF).(CNI3)*.(ES07)
XA438	TT3	F1	39B	(73)	01		C033D0 CNI3P0 CE07C0 79 39B 77 38B 75 37B	
XA440	TQ2	F1	37B	C451J0	00	=		SDF/MZF
XA440	TQ2	F1	39B	(75)	01		C046CA C047CA 79 39B 77 38B	
XA436	TS8	C1	17B	C451K0	00	=		R(A/E/I/N/S)F/EXF/SDU/SDL
XA436	TS8	C1	20A	(35)	01		C035CA C037CA C016CA C017CA C056CA CX45CA SPA133 C036CA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA440	TQ2	F2	34A	C451L0	00	=		TQR/SSF
XA440	TQ2	F2	36B	(72)	01		C057EA C133EA 73 36B 71 36A	
XA435	TQ2	C1	18A	C452CA	00	=		UNQUALIFIED DBL TO GRL-A
XA435	TQ2	C1	20A	(38)	01		C452C0 SPA133 42 20A 40 19A	
XA439	TS8	D1	25B	C452C0	00	=		UNQUALIFIED DBL TO GRL-0
XA439	TS8	D1	26A	(47)	01		C452EA C452DA SPA135 C452FA C452GA C452HA C452JA C454CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA440	TQ2	F3	35A	C452DA	00	=		(XLK).(ES00)
XA440	TQ2	F3	34B	(69)	01		C160C0 CE00G0 65 34B 74 35B	
XA440	TQ2	F4	39A	C452EA	00	=		(EQH/TOH/ANH).(ES02)
XA440	TQ2	F4	37A	(80)	01		CE02H0 C452K0 76 37A 78 38A	
XA438	TT3	C1	17A	C452FA	00	=		(XIO/XDO).(ACZR)*.(ES03)
XA438	TT3	C1	20A	(36)	01		ACZRCA C452L0 CE03G0 42 20A 40 19A 38 18A	

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TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3

UNIT ASSEMBLY NO. 149011 REV. D INDEX C452GA

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UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

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CONNECTOR	CIRCUIT GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA438	TT3 C2	15B	C452GA	00	=		(XIT/XDT), (AC21)*, (FS03)
XA438	TT3 C2	16A	(31)	01		CE03G0 AC21CA C452M0 34 16A 30 15A 29 14B	
XA440	TQ2 D2	21A	C452HA	00	=		(FEH1), (FS06)
XA440	TQ2 D2	23A	(46)	01		CE06A0 C130C0 50 23A 48 22A	
XA438	TT3 C3	19B	C452JA	00	=		(FIH), (FS11)
XA438	TT3 C3	18B	(39)	01		CE10C0 CX31C0 CCE1H0 33 16B 35 17B 37 18B	
XA438	TT3 D1	23A	C452K0	00	=		EOH/ANH/TOH
XA438	TT3 D1	26A	(50)	01		C125CA C126CA C127CA 56 26A 54 25A 52 24A	
XA435	TQ2 C2	15A	C452L0	00	=		XIO/XDO
XA435	TQ2 C2	17A	(30)	01		C065CA C064CA 36 17A 34 16A	
XA435	TQ2 C3	16B	C452M0	00	=		XIT/XDT
XA435	TQ2 C3	14B	(33)	01		C165CA C164CA 29 14B 31 15B	
XA438	TT3 D2	23B	C453CA	00	=		QUALIFIED DBL TO GR1 - A
XA438	TT3 D2	22A	(43)	01		MMAGRO C453D0 MA15BP 48 22A 46 21A 41 22B	
XA439	TS8 E1	31B	C453D0	00	=		QUALIFIED DBL TO GR1 - 0
XA439	TS8 E1	33A	(59)	01		SPA136 SPA135 C455GA C454EA C455FA C454FA C455EA SPA134 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA438	TT3 D3	27B	C454CA	00	=		QUALIFIED DBL TO GRU - A
XA438	TT3 D3	24B	(51)	01		C454D0 MMAGRO MA15BQ 45 24B 47 25B 49 26B	
XA440	TQ2 D3	24B	C454D0	00	=		QUALIFIED DBL TO GRU - 0
XA440	TQ2 D3	22B	(45)	01		C454FA C454EA 41 22B 43 23B	
XA435	TQ2 C4	19B	C454EA	00	=		(SMH/SDH), (FS02)
XA435	TQ2 C4	17B	(39)	01		C454G0 CE02H0 35 17B 37 18B	
XA441	TQ2 E1	31A	C454FA	00	=		(MTL/MTU), (FS03)
XA441	TQ2 E1	33A	(66)	01		CX55C0 CE03G0 70 33A 68 32A	



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UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA440	TQ2	D4	27B	C454G0	00	=		
XA440	TQ2	D4	25B	(51)	01		C144CA C146CA 47 25B 49 26B	SMH/SDH
XA438	TT3	E1	30A	C455CA	00	=		QUALIFIED DBU TO GRU - A
XA438	TT3	E1	33A	(64)	01		C455D0 MA15B0 MMAGRO 70 33A 68 32A 66 31A	
XA437	TD4	E2	30B	C455D0	00	=		QUALIFIED DBU TO GRU - 0
XA437	TD4	E2	30A	(57)	01		C455EA C455FA C455GA SPA134 64 30A 62 29A 60 28A 55 29B	
XA441	TQ2	E2	28A	C455EA	00	=		(MZH).(ES02)
XA441	TQ2	E2	30A	(60)	01		C147C0 CE02H0 64 30A 62 29A	
XA441	TQ2	E3	30B	C455FA	00	=		DBL TO SLCTD GR HALF WORD-E3
XA441	TQ2	E3	28B	(57)	01		CE03G0 C455H0 53 28B 55 29B	
XA441	TQ2	E4	33B	C455GA	00	=		(MTH).(ES04)
XA441	TQ2	E4	31B	(63)	01		C157C0 CE04A0 59 31B 61 32B	
XA542	TS8	A1	05B	C455H0	00	=		R(A/E/I/N/S)H/SBT/RBT/EXH
XA542	TS8	A1	07A	(11)	01		C135CA C136CA C137CA SPA164 C117CA CX34CA C116CA C156CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA440	TQ2	E1	31A	C456CA	00	=		(LMH).(ES02)
XA440	TQ2	E1	33A	(66)	01		C044C0 CE02H0 70 33A 68 32A	
XA440	TQ2	E2	28A	C457CA	00	=		UNQUALIFIED GR TO DB FULL-A
XA440	TQ2	E2	30A	(60)	01		C457C0 SPA135 64 30A 62 29A	
XA439	TS8	F1	37A	C457C0	00	=		UNQUALIFIED GR TO DB FULL-0
XA439	TS8	F1	39B	(76)	01		C457LA C200LA C457FA C457EA C457HA C457DA C457KA C457GA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA436	TS8	B1	11B	C457DA	00	=		UNQUALIFIED GR TO DB FULL-E0
XA436	TS8	B1	14A	(23)	01		CX34CA C124CA C122CA CX21EA SPA133 C457M0 CE00G0 C133EA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA440	TQ2	E3	30B	C457EA	00	=		UNQUALIFIED GR TO DB FULL-E1
XA440	TQ2	E3	28B	(57)	01		CE01G0 C457N0 53 28B 55 29B	

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UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA440	TQ2	E4	33B	C457FA	00	=		
XA440	TQ2	E4	31B	(63)	01		CE02H0 C457P0 59 31B 61 32B	UNQUALIFIED GR TO DB FULL-E2
XA435	TQ2	F1	37B	C457GA	00	=		
XA435	TQ2	F1	39B	(75)	01		C457Q0 CE03G0 79 39B 77 38B	UNQUALIFIED GR TO DB FULL-E3
XA435	TQ2	F2	34A	C457HA	00	=		
XA435	TQ2	F2	36B	(72)	01		CE04A0 CX23C0 73 36B 71 36A	(CGF/CGH) (ES04)
XA435	TQ2	F3	35A	C457KA	00	=		
XA435	TQ2	F3	34B	(69)	01		C457R0 CF01C0 65 34B 74 35B	(CLGR/TRAP) (ES01)
XA435	TQ2	F4	39A	C457LA	00	=		
XA435	TQ2	F4	37A	(80)	01		C457L0 SPA133 76 37A 78 38A	ES03/ES05/L402 - A
XA438	TT3	F2	35B	C457L0	00	=		
XA438	TT3	F2	36A	(74)	01		CG42CA CF03CA CF05CA 71 36A 72 34A 65 34B	ES03/ES05/L402 - 0
XA439	TS8	C1	17B	C457M0	00	=		
XA439	TS8	C1	20A	(35)	01		CX56EA CX2XCA CX1XAA CX46EA CX3XAA CX62CA CX63CA C057EA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	UNQLED GR TO DB FULL E0 INS.
XA438	TT3	E2	29B	C457N0	00	=		
XA438	TT3	E2	29A	(55)	01		SPA134 C457TA C457UA 62 29A 60 28A 53 28B	UNQLED GR TO DB FULL E1 INS.
XA437	TD4	F1	37A	C457P0	00	=		
XA437	TD4	F1	39B	(76)	01		CX32FA C166EA CX45CA C015CA 79 39B 77 38B 75 37B 78 38A	DIF/SHE/SHH/SDU/SOL/TST
XA437	TD4	F2	35A	C457Q0	00	=		
XA437	TD4	F2	36B	(69)	01		C166EA CX24EA C057EA C171CA 73 36B 71 36A 72 34A 74 35B	CSF/CSH/SSF/TST/DFR
XA438	TT3	E3	33B	C457R0	00	=		
XA438	TT3	E3	30B	(63)	01		CR02BP C457SA SPA134 57 30B 59 31B 61 32B	CLGR/TRAP
XA437	TD4	D1	25B	C457SA	00	=		
XA437	TD4	D1	26A	(47)	01		CL10BP C522U0 C066CA C109BP 56 26A 54 25A 52 24A 49 26B	((CL=GR ADDR)/TRAP).YEXN *

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UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA437	TD4	D2	24B	C457TA	00	=		(TRANSFER TYPE INS.),(CC08)
XA437	TD4	D2	23A	(45)	01		CX67EA CC08BQ C166EA CX6X00 50 23A 48 22A 46 21A 43 23B	
XA435	TQ2	E1	31A	C457UA	00	=		(BYTE INS./HALT).(MODE 0)*
XA435	TQ2	E1	33A	(66)	01		C457V0 CCM0DA 70 33A 68 32A	
XA437	TD4	C1	17B	C457V0	00	=		CLU/CLL/LDU/LDL/SDU/SDL/HLT
XA437	TD4	C1	20A	(35)	01		C072CA CX45CA CX21EA CX41CA 42 20A 40 19A 38 18A 37 18B	
XA435	TQ2	E2	28A	C458CA	00	=		QUALIFIED GR TO DB FULL-A
XA435	TQ2	E2	30A	(60)	01		MMAGRO C458D0 64 30A 62 29A	
XA438	TT3	F3	39A	C458D0	00	=		QUALIFIED GR TO DB FULL-0
XA438	TT3	F3	35A	(80)	01		C458EA C458FA C424PA 69 35A 76 37A 78 38A	
XA437	TD4	C2	16B	C458EA	00	=		QUALIFIED GR TO DB FULL-E1
XA437	TD4	C2	17A	(33)	01		C458G0 CE01G0 CCE0H0 CX21EA 36 17A 34 16A 30 15A 31 15B	
XA435	TQ2	E3	30B	C458FA	00	=		(TOR).(ES02)
XA435	TQ2	E3	28B	(57)	01		CE02H0 C133C0 53 28B 55 29B	
XA436	TS8	D1	25B	C458G0	00	=		QLED GR TO DB FULL E1 INS.
XA436	TS8	D1	26A	(47)	01		CX56EA CX1XAA CX2XCA C172CA CX40CA C203HA C200WA C057EA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA435	TQ2	E4	33B	C459CA	00	=		UNQUALIFIED GRL TO DBL - A
XA435	TQ2	E4	31B	(63)	01		CE00G0 C459D0 59 31B 61 32B	
XA437	TD4	B1	11B	C459D0	00	=		XIO/XIT/XDO/XDT/CLH/CSH
XA437	TD4	B1	14A	(23)	01		SPA134 C124CA C200VA C122CA 26 14A 24 13A 22 12A 25 12B	
XA435	TQ2	B1	12A	C460CA	00	=		UNQUALIFIED GRU TO DBL - A
XA435	TQ2	B1	14A	(22)	01		CE00G0 C144C0 26 14A 24 13A	
XA435	TQ2	B2	09A	C461CA	00	=		UNQUALIFIED GRLL TO DBLL - A
XA435	TQ2	B2	11A	(14)	01		CE00G0 CX21C0 20 11A 18 10A	

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UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA437	TD4	B2	10B	C462CA	00	=		QLED GRU TO DBI DCD - A
XA437	TD4	B2	11A	(21)	01		C462D0 SPA133 MMAGRO MA15BP 20 11A 18 10A 14 09A 19 09B	
XA435	TQ2	B3	10B	C462D0	00	=		QLED GRU TO DBI DCD - 0
XA435	TQ2	B3	08B	(21)	01		C462LA C462EA 17 08B 19 09B	
XA441	TQ2	D1	24A	C462EA	00	=		QLED GRU TO DBI E1 INS. - A
XA441	TQ2	D1	26A	(52)	01		C462FO CE01G0 56 26A 54 25A	
XA436	TSB	E1	31B	C462FO	00	=		QLED GRU TO DBI E1 INS. - 0
XA436	TSB	E1	33A	(59)	01		C044EA CX55CA SPA133 C462GA CX34CA CX67EA C214RA C462HA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA435	TQ2	B4	13B	C462GA	00	=		(ERMT/SHFT/1-01 (MODE 0))
XA435	TQ2	B4	11B	(27)	01		CCM00A C462J0 23 11B 25 12B	
XA437	TD4	A1	05B	C462HA	00	=		SICTD GR HALF WD TO DBI INS-A
XA437	TD4	A1	07A	(11)	01		CX21EA CX41CA CCE1H0 C462K0 10 07A 08 06A 06 05A 13 06B	
XA437	TD4	A2	04B	C462J0	00	=		FORMAT/SHFT/DEV/DEX/ITR/OER
XA437	TD4	A2	04A	(09)	01		CX32FA C407HA C226MA SPA133 04 04A 05 03B 01 02B 07 03A	
XA436	TSB	F1	37A	C462K0	00	=		SICTD GR HALF WD TO DBI INS-0
XA436	TSB	F1	39B	(76)	01		C306EA C157EA C166EA CX56EA CX2XCA C200WA SPI037 CXIXAA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA440	TQ2	D1	24A	C462LA	00	=		(ES 04) (MODE 3)
XA440	TQ2	D1	26A	(52)	01		CF04C0 CMOD30 56 26A 54 25A	
XA441	TQ2	D2	21A	C463CA	00	=		QLED GRU TO DBI DCD - A
XA441	TQ2	D2	23A	(46)	01		MMAGRO C463D0 50 23A 48 22A	
XA435	TQ2	D2	21A	C463D0	00	=		QLED GRU TO DBI DCD - 0
XA435	TQ2	D2	23A	(46)	01		C463EA C463GA 50 23A 48 22A	
XA441	TQ2	D3	24B	C463EA	00	=		QLED GRU TO DBI E1 INS. - A
XA441	TQ2	D3	22B	(45)	01		CE01G0 C463FO 41 22B 43 23B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA435	TQ2	D3	24B	C463F0	00	=		QLFD GRU TO DBL E1 INS. - 0
XA435	TQ2	D3	22B	(45 )	01		C133EA SPA134 41 22B 43 23B	
XA441	TQ2	D4	27B	C463GA	00	=		GRU IS SELECTED (MA15 = 0)
XA441	TQ2	D4	25B	(51 )	01		MA15BQ C462D0 47 25B 49 26B	
XA545	TQ2	A1	05A	C501DA	00	=		RST HOLD- L104
XA545	TQ2	A1	07A	(06 )	01		SPA165 CG14C0 10 07A 08 06A	
XA538	TD4	B2	10B	C502DA	00	=		SET HOLD
XA538	TD4	B2	11A	(21 )	01		CE04M0 C133D0 MMAQTO ACZRC0 20 11A 18 10A 14 09A 19 09B	
XA545	TQ2	A2	02B	C503DA	00	=		EXE MBA- MEM BANK ASSIGNMENT
XA545	TQ2	A2	04A	(01 )	01		CE03M0 C172C0 04 04A 05 03B	
XA545	TQ2	A3	04B	C504CA	00	=		EXE MCL- MEM CLEAR
XA545	TQ2	A3	02A	(09 )	01		C504D0 PLE1QA 03 02A 07 03A	
XA543	TQ2	A1	05A	C504D0	00	=		L402/L701
XA543	TQ2	A1	07A	(06 )	01		CG71CA CG42CA 10 07A 08 06A	
XA545	TQ2	A4	07B	C505CA	00	=		EXE MMW
XA545	TQ2	A4	05B	(15 )	01		C505C0 SPA165 11 05B 13 06B	
XA539	TS8	A1	05B	C505C0	00	=		
XA539	TS8	A1	07A	(11 )	01		C424GA C505PA C505JA C505MA C505FA C505DA SPA162 C505NA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA543	TQ2	A2	02B	C505DA	00	=		E2. (INSTR)
XA543	TQ2	A2	04A	(01 )	01		C505E0 CE02M0 04 04A 05 03B	
XA543	TQ2	A3	04B	C505EA	00	=		
XA543	TQ2	A3	02A	(09 )	01		SPA164 C505E0 03 02A 07 03A	
XA544	TT3	A1	04A	C505E0	00	=		SMH/SDP/SDH/MZF/MZH
XA544	TT3	A1	07A	(04 )	01		C144EA CX47CA CX46EA 10 07A 08 06A 06 05A	

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CONNECTOR	CIRCUIT TYPE	GROUP	POINTS AND/OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA543	TQ2	A4	07B	C505FA	00	=		
XA543	TQ2	A4	05B	(15)	01		CE03M0 C505G0 11 05B 13 06B	E3.(INSTR)
XA545	TQ2	B1	12A	C505GA	00	=		
XA545	TQ2	B1	14A	(22)	01		SPA165 C505G0 26 14A 24 13A	
XA542	TS8	B1	11B	C505G0	00	=		
XA542	TS8	B1	14A	(23)	01		C200WA SPA164 CX45EA SPA166 CX56EA C306FA CX55CA CX34EA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	RA/RS/SBT/RBT/RT/RE/RN/
XA543	TQ2	B2	09A	C505JA	00	=		
XA543	TQ2	B2	11A	(14)	01		CE05M0 C505K0 20 11A 18 10A	E5-(TOR/SSE/L0D)
XA544	TT3	A2	03A	C505K0	00	=		
XA544	TT3	A2	03B	(07)	01		C057EA C133EA C175CA 05 03B 01 02B 03 02A	TOR/SSE/L0D
XA544	TT3	A3	07B	C505MA	00	=		
XA544	TT3	A3	04B	(15)	01		C033D0 CE07C0 CN13P0 09 04B 11 05B 13 06B	E7.RQE,CN13*
XA538	TD4	C2	16B	C505NA	00	=		
XA538	TD4	C2	17A	(33)	01		C608E0 C520GA CE12C0 SPA161 36 17A 34 16A 30 15A 31 15B	E11.(TXP/TCP/TIE),(TRAC.PL3)*
XA543	TQ2	B4	13B	C505PA	00	=		
XA543	TQ2	B4	11B	(27)	01		CE17C0 C174E0 23 11B 25 12B	E17.TCP
XA545	TQ2	B2	09A	C505QA	00	=		
XA545	TQ2	B2	11A	(14)	01		C505Q0 SPA165 20 11A 18 10A	EXE MMW
XA543	TQ2	D1	24A	C505Q0	00	=		
XA543	TQ2	D1	26A	(52)	01		CG25CA CG15CA 56 26A 54 25A	
XA545	TQ2	D1	24A	C506CA	00	=		
XA545	TQ2	D1	26A	(52)	01		SPA165 C506C0 56 26A 54 25A	BLO MD0015 DB0015 AND MDU-DBL
XA546	TD4	B2	10B	C506C0	00	=		
XA546	TD4	B2	11A	(21)	01		C506HA C506JA C506FA C506GA 20 11A 18 10A 14 09A 19 09B	

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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERMINATION	DESIGNATION	FACTOR	COMMENT
XA545	TQ2	B3 10B	C506DA	00 =			EXE MRM- ES00
XA545	TQ2	B3 08B	(21)	01	CE00C0 C506E0 17 08B 19 09B		
XA546	TD4	C1 17B	C506E0	00 =			
XA546	TD4	C1 20A	(35)	01	C424KA SPA168 C505GA CX57CA 42 20A 40 19A 38 18A 37 18B		
XA545	TQ2	B4 13B	C506FA	00 =			E3.LOD
XA545	TQ2	B4 11B	(27)	01	CE03M0 C175C0 23 11B 25 12B		
XA544	TT3	B1 11A	C506GA	00 =			E5.ROF.CN13*
XA544	TT3	B1 14A	(20)	01	CE05M0 C033D0 CN13P0 26 14A 24 13A 22 12A		
XA540	TT3	C1 17A	C506HA	00 =			E10.(TXP/TCP/TIE). (TRAC.PI3)*
XA540	TT3	C1 20A	(36)	01	C612U0 CE06C0 C520GA 42 20A 40 19A 38 18A		
XA543	TQ2	C1 18A	C506JA	00 =			E14.TCP
XA543	TQ2	C1 20A	(38)	01	CE14C0 C174E0 42 20A 40 19A		
XA545	TQ2	C4 19B	C506QA	00 =			EXE MRM
XA545	TQ2	C4 17B	(39)	01	SPA165 C506Q0 35 17B 37 18B		
XA543	TQ2	E1 31A	C506Q0	00 =			
XA543	TQ2	E1 33A	(66)	01	CG22CA CG12CA 70 33A 68 32A		
XA543	TQ2	C3 16B	C507CA	00 =			EXE MRR- (ES00)*
XA543	TQ2	C3 14B	(33)	01	C506HA C507C0 29 14B 31 15B		
XA542	TS8	E1 31B	C507C0	00 =			E3INSTRS/F1/F3/L32/L52/L62/
XA542	TS8	E1 33A	(59)	01	C527HA CG66CA C507JA C507EA C507DA C507KA CG52CA CG32CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B		
XA543	TQ2	C4 19B	C507DA	00 =			E2.(TXP/TCP/TIE)
XA543	TQ2	C4 17B	(39)	01	C608E0 CE03M0 35 17B 37 18B		
XA545	TQ2	C2 15A	C507EA	00 =			F03.MOD3
XA545	TQ2	C2 17A	(30)	01	CF03C0 CM0D30 36 17A 34 16A		

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CONNECTOR	UNIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA544	TT3	B2	09B	C507FA	00	=		EXE MRR- ES00
XA544	TT3	B2	10A	(19)	01		CE00C0 C507G0 CM0D0A 18 10A 14 09A 17 08B	
XA542	TS8	C1	17B	C507G0	00	=		
XA542	TS8	C1	20A	(35)	01		CQPMDA C507HA SPA164 C612JA C306EA C306KA C407HA CX2XCA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA543	TQ2	D2	21A	C507HA	00	=		
XA543	TQ2	D2	23A	(46)	01		C507H0 SPA164 50 23A 48 22A	
XA542	TS8	D1	25B	C507H0	00	=		
XA542	TS8	D1	26A	(47)	01		CX32FA CX72CA CX75CA CX74CA C044EA CX67EA CX71CA CX70CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA205	TT3	E2	29B	C507JA	00	=		SIC L603
XA205	TT3	E2	29A	(55)	01		CK05Q0 CK00BQ CG62C0 62 29A 60 28A 53 28B	
XA534	TQ2	F4	39A	C507KA	00	=		F01. MASP *
XA534	TQ2	F4	37A	(80)	01		CF01C0 C522TA 76 37A 78 38A	
XA545	TQ2	C3	16B	C508DA	00	=		EXE MWR
XA545	TQ2	C3	14B	(33)	01		PLE1QA C508E0 29 14B 31 15B	
XA543	TQ2	C2	15A	C508E0	00	=		
XA543	TQ2	C2	17A	(30)	01		CG43CA CG72CA 36 17A 34 16A	
XA543	TQ2	D3	24B	C509CA	00	=		EXE MRM- (ES00)*
XA543	TQ2	D3	22B	(45)	01		C509C0 SPA164 41 22B 43 23B	
XA544	TT3	D1	23A	C509C0	00	=		(INS EXE)/L503
XA544	TT3	D1	26A	(50)	01		C509FA C509DA CG53CA 56 26A 54 25A 52 24A	
XA545	TQ2	D2	21A	C509DA	00	=		E2. (SMH/SDH)
XA545	TQ2	D2	23A	(46)	01		CE02M0 C621F0 50 23A 48 22A	
XA543	TQ2	E3	30B	C509FA	00	=		E3. (SBI/RBT/MIU/MIL)
XA543	TQ2	E3	28B	(57)	01		CE03M0 C621L0 53 28B 55 29B	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA545	TQ2	D3	24B	C510CA	00	=		
XA545	TQ2	D3	22B	(45)	01		SPA165 C510C0 41 22B 43 23B	BLO MDO031 DB0031
XA542	TS8	F1	37A	C510C0	00	=		
XA542	TS8	F1	39B	(76)	01		C510VA C510PA C510GA C510TA C510RA C510JA C510MA C510DA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA546	TD4	C2	16B	C510DA	00	=		
XA546	TD4	C2	17A	(33)	01		CMASPA C510E0 CE01C0 CCE0H0 36 17A 34 16A 30 15A 31 15B	E1.(INSTR).MASP*
XA539	TS8	D1	25B	C510E0	00	=		
XA539	TS8	D1	26A	(47)	01		CX57CA C510FA C172CA SPA162 C200WA CX1XCA CX42CA CX43CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	ROW1/IOF/RI/RE/RN/LA/LC/SS/MT
XA543	TQ2	D4	27B	C510FA	00	=		
XA543	TQ2	D4	25B	(51)	01		CX2XC0 CX21EA 47 25B 49 26B	ROW2.(CLU/CLL)*
XA544	TT3	C1	17A	C510GA	00	=		
XA544	TT3	C1	20A	(36)	01		CE01M0 C510X0 C510H0 42 20A 40 19A 38 18A	E1.(LDF/EXF).MAGR*.MAPC*MAQR*
XA545	TQ2	E1	31A	C510H0	00	=		
XA545	TQ2	E1	33A	(66)	01		C056CA C040CA 70 33A 68 32A	LDF/EXF
XA545	TQ2	E2	28A	C510JA	00	=		
XA545	TQ2	E2	30A	(60)	01		C510K0 CE02M0 64 30A 62 29A	E2.(SDF/(TOR.MAGR*))
XA543	TQ2	E4	33B	C510K0	00	=		
XA543	TQ2	E4	31B	(63)	01		C046CA C510LA 59 31B 61 32B	
XA545	TQ2	E3	30B	C510LA	00	=		
XA545	TQ2	E3	28B	(57)	01		MMAGRA C133D0 53 28B 55 29B	TQR.MAGR*
XA545	TQ2	E4	33B	C510MA	00	=		
XA545	TQ2	E4	31B	(63)	01		C510N0 CE03M0 59 31B 61 32B	E3.(RA/RS/RI/RE/RN/SOU/SOI/EX)
XA546	TD4	D1	25B	C510N0	00	=		
XA546	TD4	D1	26A	(47)	01		C306FA CX45EA CX56EA C200WA 56 26A 54 25A 52 24A 49 26B	

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XA545	TQ2	F1	37B	C510PA	00	=		F4.(MTH/TS1)
XA545	TQ2	F1	39B	(75)	01		C510Q0 CE04M0 79 39B 77 38B	
XA543	TQ2	F1	37B	C510Q0	00	=		
XA543	TQ2	F1	39B	(75)	01		C166FA C157EA 79 39B 77 38B	
XA545	TQ2	F2	34A	C510RA	00	=		F5.(TQR/SSE)
XA545	TQ2	F2	36B	(72)	01		C510S0 CE05M0 73 36B 71 36A	
XA544	TT3	F1	36B	C510S0	00	=		TQR/SSE
XA544	TT3	F1	39B	(73)	01		EEDTGA C133EA C057EA 79 39B 77 38B 75 37B	
XA545	TQ2	F3	35A	C510TA	00	=		F7.(RQE/TXP/TCP/TIE)
XA545	TQ2	F3	34B	(69)	01		CE07C0 C510U0 65 34B 74 35B	
XA543	TQ2	F2	34A	C510U0	00	=		RQE/TXP/TCP/TIE
XA543	TQ2	F2	36B	(72)	01		C608EA C033EA 73 36B 71 36A	
XA543	TQ2	B1	12A	C510VA	00	=		F4.MTH
XA543	TQ2	B1	14A	(22)	01		SPI049 C510V0 26 14A 24 13A	
XA530	TT3	B2	09B	C510V0	00	=		ESQ2/L607/ATES ST05
XA530	TT3	B2	10A	(19)	01		ET05CA CF02CA CG67CA 18 10A 14 09A 17 08B	
XA544	TT3	F2	35B	C510XA	00	=		MAGR*.MAPC*.MAQR* APDI
XA544	TT3	F2	36A	(74)	01		MMAGRA MMAQRA MC122A 71 36A 72 34A 65 34B	
XA543	TQ2	F3	35A	C510X0	00	=		MAGR*.MAPC*.MAQR* QPDI
XA543	TQ2	F3	34B	(69)	01		C510XA SPA164 65 34B 74 35B	
XA544	TT3	C2	15B	C511DA	00	=		BLO MB0015DB1631
XA544	TT3	C2	16A	(31)	01		CE01M0 C511E0 MMAPCO 34 16A 30 15A 29 14B	
XA539	TS8	C1	17B	C511E0	00	=		SBT/RBT/LDE/LDH/MT/EXE/TS7/
XA539	TS8	C1	20A	(35)	01		CX55CA CX67EA CX34EA SPA164 C056CA SPA162 SPA163 CX40EA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA545	TQ2	F4	39A		C512AA	00	=		
XA545	TQ2	F4	37A		(80)	01	=	C509CA C512A0 76 37A 78 38A	
XA544	TT3	F3	39A		C512A0	00	=		BLO MD0015DB1631
XA544	TT3	F3	35A		(80)	01	=	C512RA C512WA C512XA 69 35A 76 37A 78 38A	
XA539	TS8	F1	37A		C512C0	00	=		(INSTR)/L603
XA539	TS8	F1	39B		(76)	01	=	SPA163 SPA162 CG63CA C512FA C512KA C512DA C512MA C512PA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA544	TT3	C3	19B		C512DA	00	=		E1.(INSTR).MASP*.MA15*
XA544	TT3	C3	16B		(39)	01	=	CE01M0 C512E0 CMASPA 33 16B 35 17B 37 18B	
XA539	TS8	B1	11B		C512E0	00	=		
XA539	TS8	B1	14A		(23)	01	=	CX74CA CX75CA C512YA C156CA C166FA C044EA SPI032 SPA162 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA546	TD4	D2	24B		C512FA	00	=		E1.(INS).MODO*.MASP*.MA15*
XA546	TD4	D2	23A		(45)	01	=	C512H0 CMASPA CM000A CE01M0 50 23A 48 22A 46 21A 43 23B	
XA544	TT3	E1	30A		C512H0	00	=		
XA544	TT3	E1	33A		(64)	01	=	C512JA CX32FA C407HA 70 33A 68 32A 66 31A	
XA543	TQ2	F4	39A		C512JA	00	=		
XA543	TQ2	F4	37A		(80)	01	=	SPA165 C512J0 76 37A 78 38A	
XA541	TQ2	F1	37B		C512J0	00	=		DEV/DEX/ITR/OFR
XA541	TQ2	F1	39B		(75)	01	=	CX71CA CX70CA 79 39B 77 38B	
XA544	TT3	D2	23B		C512KA	00	=		E1.(INS).MAGR*.MAPC*.MAOR*.
XA544	TT3	D2	22A		(43)	01	=	CE01M0 C510X0 C512L0 48 22A 46 21A 41 22B	
XA540	TT3	F1	36B		C512L0	00	=		SBT/RBT/LDH/TSZ/TSO
XA540	TT3	F1	39B		(73)	01	=	C140CA CX67EA CX34EA 79 39B 77 38B 75 37B	
XA541	TQ2	D1	24A		C512MA	00	=		E2.(INS).MA15*
XA541	TQ2	D1	26A		(52)	01	=	C512N0 CE02M0 56 26A 54 25A	

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XA544	TT3	D3	27B	C512N0	00	=		
XA544	TT3	D3	24B	(51)	01	=	C612KA C144EA C146CA 45 24B 47 25B 49 26B	X INSTR /SMH/SDH
XA541	TQ2	D2	21A	C512PA	00	=		
XA541	TQ2	D2	23A	(46)	01	=	C621M0 CE03M0 50 23A 48 22A	F3.(SRT/RRT/MTII/MTI).MA15*
XA541	TQ2	D3	24B	C512RA	00	=		
XA541	TQ2	D3	22B	(45)	01	=	SPA163 C512R0 41 22B 43 23B	
XA546	TD4	E1	31B	C512R0	00	=		
XA546	TD4	E1	33A	(59)	01	=	C512TA C512VA C512UA C512SA 70 33A 68 32A 66 31A 61 32B	
XA544	TT3	E2	29B	C512SA	00	=		
XA544	TT3	E2	29A	(55)	01	=	MMAGRA C133D0 CE01M0 62 29A 60 28A 53 28B	F1.TOR.MAGR*
XA541	TQ2	F2	34A	C512TA	00	=		
XA541	TQ2	F2	36B	(72)	01	=	CE04M0 C608E0 73 36B 71 36A	F4.(TXP/TCP/TTE)
XA544	TT3	E3	33B	C512UA	00	=		
XA544	TT3	E3	30B	(63)	01	=	CE15C0 C174E0 AQ19BP 57 30B 59 31B 61 32B	F15.TXP.AQ19*
XA538	TD4	E1	31B	C512VA	00	=		
XA538	TD4	E1	33A	(59)	01	=	MA15P0 CMOD30 CF04C0 CMASPA 70 33A 68 32A 66 31A 61 32B	F4.MOD3.MASP*.MA15*
XA541	TQ2	F3	35A	C512WA	00	=		
XA541	TQ2	F3	34B	(69)	01	=	SPA163 C512W0 65 34B 74 35B	
XA540	TT3	F2	35B	C512W0	00	=		
XA540	TT3	F2	36A	(74)	01	=	CG33CA CG13CA CG23CA 71 36A 72 34A 65 34B	
XA541	TQ2	F4	39A	C512XA	00	=		
XA541	TQ2	F4	37A	(80)	01	=	C512C0 MA15P0 76 37A 78 38A	R10.MD00150R1631 IE MA15*
XA544	TT3	B3	13B	C512YA	00	=		
XA544	TT3	B3	10B	(27)	01	=	C172CA CCE1H0 C510E0 21 10B 23 11B 25 12B	(X INSTRS).(MODE1/MODE3)

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XA541	TQ2	E1	31A	C513AA	00	=		BLO MD1631DB1631
XA541	TQ2	E1	33A	(66)	01		C509CA C513A0 70 33A 68 32A	
XA546	TD4	E2	30B	C513A0	00	=		
XA546	TD4	E2	30A	(57)	01		C513DA C634CA C513CA C513EA 64 30A 62 29A 60 28A 55 29B	
XA541	TQ2	D4	27B	C513CA	00	=		BLO MD1631DB1631 IF MA15
XA541	TQ2	D4	25B	(51)	01		MA15Q0 C512C0 47 25B 49 26B	
XA540	TT3	F3	39A	C513DA	00	=		E15.TCP.AQ19
XA540	TT3	F3	35A	(80)	01		C174E0 AQ19BQ CE15C0 69 35A 76 37A 78 38A	
XA538	TD4	E2	30B	C513EA	00	=		F4.MOD3.MASP*.MA15
XA538	TD4	E2	30A	(57)	01		CF04C0 CM0D30 CMASPA MA15Q0 64 30A 62 29A 60 28A 55 29B	
XA537	TQ2	F1	37B	C514CA	00	=		BLO MD0007DB2431
XA537	TQ2	F1	39B	(75)	01		MA15P0 C514D0 79 39B 77 38B	
XA537	TQ2	F2	34A	C514DA	00	=		E2.(CLU/LDU)
XA537	TQ2	F2	36B	(72)	01		C514F0 CE02M0 73 36B 71 36A	
XA541	TQ2	E2	28A	C514D0	00	=		
XA541	TQ2	E2	30A	(60)	01		C514DA SPA163 64 30A 62 29A	
XA535	TQ2	F3	35A	C514F0	00	=		CLU/LDU
XA535	TQ2	F3	34B	(69)	01		C041CA C021CA 65 34B 74 35B	
XA537	TQ2	F4	39A	C515CA	00	=		BLO MD0815DB2431
XA537	TQ2	F4	37A	(80)	01		C515D0 MA15P0 76 37A 78 38A	
XA537	TQ2	E1	31A	C515DA	00	=		F2.(CLU/LDU)
XA537	TQ2	E1	33A	(66)	01		CE02M0 C515F0 70 33A 68 32A	
XA541	TQ2	E3	30B	C515D0	00	=		
XA541	TQ2	E3	28B	(57)	01		SPA163 C515DA 53 28B 55 29B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA541	TQ2	E4	33B	C515F0	00	=		
XA541	TQ2	E4	31B	(63)	01	=	C141CA C121CA 59 31B 61 32B	CLL/LDL
XA543	TQ2	E2	28A	C516AA	00	=		
XA543	TQ2	E2	30A	(60)	01	=	SPA167 C516A0 64 30A 62 29A	SMH/SDH
XA535	TQ2	D3	24B	C516A0	00	=		
XA535	TQ2	D3	22B	(45)	01	=	C516CA C200ZA 41 22B 43 23B	UNQUALIFIED MEM CYCLE.
XA537	TQ2	E2	28A	C516CA	00	=		
XA537	TQ2	E2	30A	(60)	01	=	C514D0 MA15Q0 64 30A 62 29A	BLO MD1623DB2431
XA537	TQ2	E3	30B	C517CA	00	=		
XA537	TQ2	E3	28B	(57)	01	=	MA15Q0 C515D0 53 28B 55 29B	BLO MD2431DB2431
XA537	TQ2	E4	33B	C518CA	00	=		
XA537	TQ2	E4	31B	(63)	01	=	C518C0 SPA161 59 31B 61 32B	BTR DB1631MA0015
XA539	TS8	E1	31B	C518C0	00	=		
XA539	TS8	E1	33A	(59)	01	=	C518MA C518JA C518KA C518HA C518NA C518LA C518FA C518DA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA537	TQ2	D1	24A	C518DA	00	=		
XA537	TQ2	D1	26A	(52)	01	=	CE01M0 C518E0 56 26A 54 25A	E1.(FERMI/SHEI)
XA541	TQ2	C1	18A	C518E0	00	=		
XA541	TQ2	C1	20A	(38)	01	=	C407HA CX32FA 42 20A 40 19A	
XA537	TQ2	D2	21A	C518FA	00	=		
XA537	TQ2	D2	23A	(46)	01	=	CE02M0 C518G0 50 23A 48 22A	E2.(XFX/TXP/TCP/TIE/LDD)
XA541	TQ2	C2	15A	C518G0	00	=		
XA541	TQ2	C2	17A	(30)	01	=	C612RA C066CA 36 17A 34 16A	XFX/TXP/TCP/TIE/LDD
XA537	TQ2	D3	24B	C518HA	00	=		
XA537	TQ2	D3	22B	(45)	01	=	CE05M0 C612U0 41 22B 43 23B	E5.(TXP/TCP/TIE)

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA537	TQ2	D4	27B	C518JA	00	=		E13.TCP
XA537	TQ2	D4	25B	(51)	01		CEI3C0 C174E0 47 25B 49 26B	
XA537	TQ2	C1	18A	C518KA	00	=		F0.XEXN*
XA537	TQ2	C1	20A	(38)	01		C066CA CF00C0 42 20A 40 19A	
XA537	TQ2	C2	15A	C518LA	00	=		
XA537	TQ2	C2	17A	(30)	01		C518L0 SPA161 36 17A 34 16A	
XA540	TT3	E1	30A	C518L0	00	=		F2/F4/F6
XA540	TT3	E1	33A	(64)	01		CF02CA CF06CA CF04CA 70 33A 68 32A 66 31A	
XA540	TT3	E2	29B	C518MA	00	=		L101/L201/L301/L401/L501/L601
XA540	TT3	E2	29A	(55)	01		CS0LC0 CD01C0 CSX7CA 62 29A 60 28A 53 28B	
XA537	TQ2	C3	16B	C518NA	00	=		
XA537	TQ2	C3	14B	(33)	01		SPA161 C518N0 29 14B 31 15B	
XA540	TT3	E3	33B	C518N0	00	=		L604/L605/L700
XA540	TT3	E3	30B	(63)	01		CG70CA CG65CA CG64CA 57 30B 59 31B 61 32B	
XA537	TQ2	C4	19B	C519CA	00	=		BTR DB163 LMB0015 IF MAPC
XA537	TQ2	C4	17B	(39)	01		MMAPC0 C519D0 35 17B 37 18B	
XA540	TT3	D2	23B	C519D0	00	=		(INSTR)/L603
XA540	TT3	D2	22A	(43)	01		C519EA C519GA CG63CA 48 22A 46 21A 41 22B	
XA537	TQ2	B1	12A	C519EA	00	=		
XA537	TQ2	B1	14A	(22)	01		CE02M0 C519F0 26 14A 24 13A	
XA540	TT3	D3	27B	C519F0	00	=		SMH/SDF/SDH/MZF/MZH
XA540	TT3	D3	24B	(51)	01		C144EA CX47CA CX46EA 45 24B 47 25B 49 26B	
XA537	TQ2	B2	09A	C519GA	00	=		
XA537	TQ2	B2	11A	(14)	01		C519H0 CE03C0 20 11A 18 10A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA541	TQ2	C3	16B	C519HO	00	=		
XA541	TQ2	C3	14B	(33)	01		C621MA C056CA 29 14B 31 15B	SBT/RBT/MIU/MIL/EXF
XA537	TQ2	B3	10B	C520CA	00	=		
XA537	TQ2	B3	08B	(21)	01		SPA161 C520C0 17 08B 19 09B	BTR DB2431MD0007
XA541	TQ2	C4	19B	C520C0	00	=		
XA541	TQ2	C4	17B	(39)	01		C520FA C520DA 35 17B 37 18B	
XA540	TT3	D1	23A	C520DA	00	=		
XA540	TT3	D1	26A	(50)	01		C520E0 CE02M0 MA15P0 56 26A 54 25A 52 24A	E2.(SDU/MTU).MA15*
XA541	TQ2	B1	12A	C520E0	00	=		
XA541	TQ2	B1	14A	(22)	01		C055CA C045CA 26 14A 24 13A	
XA545	TQ2	C1	18A	C520FA	00	=		
XA545	TQ2	C1	20A	(38)	01		C608E0 CE10C0 42 20A 40 19A	E6.(IXP/TCP/TIE)
XA541	TQ2	B2	09A	C520GA	00	=		
XA541	TQ2	B2	11A	(14)	01		UPRLT0 PLE3C0 20 11A 18 10A	TRAC.PLE3
XA541	TQ2	B3	10B	C521CA	00	=		
XA541	TQ2	B3	08B	(21)	01		C521C0 SPA163 17 08B 19 09B	BTR DB1631MD0015
XA536	TS8	A1	05B	C521C0	00	=		
XA536	TS8	A1	07A	(11)	01		SPI033 C521DA C521TA SPI032 C521SA CG14CA CG24CA SPA161 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA541	TQ2	B4	13B	C521DA	00	=		
XA541	TQ2	B4	11B	(27)	01		MA15P0 C521E0 23 11B 25 12B	(INSTR).MA15*
XA540	TT3	C2	15B	C521E0	00	=		
XA540	TT3	C2	16A	(31)	01		C521PA C521RA C521FA 34 16A 30 15A 29 14B	
XA537	TQ2	A1	05A	C521FA	00	=		
XA537	TQ2	A1	07A	(06)	01		CE01M0 C521G0 10 07A 08 06A	E1.(INSTR COND)



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA538	TD4	A2	04B	C521G0	00	=		
XA538	TD4	A2	04A	(09)	01		C521KA C521MA C521HA C521NA 04 04A 05 03B 01 02B 07 03A	
XA537	TQ2	A2	02B	C521HA	00	=		(CLU/CLL/LDU/LDL).M0D0
XA537	TQ2	A2	04A	(01)	01		C521J0 CCM0D0 04 04A 05 03B	
XA541	TQ2	A2	02B	C521J0	00	=		CLU/CLL/LDU/LDL
XA541	TQ2	A2	04A	(01)	01		CX21EA CX41EA 04 04A 05 03B	
XA537	TQ2	A3	04B	C521KA	00	=		
XA537	TQ2	A3	02A	(09)	01		SPA203 C521L0 03 02A 07 03A	
XA540	TT3	C3	19B	C521L0	00	=		SMH/SDH/MZH
XA540	TT3	C3	16B	(19)	01		C146CA C147CA C144EA 33 16B 35 17B 37 18B	
XA541	TQ2	A3	04B	C521MA	00	=		(MIU/MIL). (MAGR/MAPC/MAQR)
XA541	TQ2	A3	02A	(09)	01		CX55C0 C510XA 03 02A 07 03A	
XA540	TT3	B1	11A	C521NA	00	=		(X INSTR).CC08*
XA540	TT3	B1	14A	(20)	01		SPA167 CC08BP C612K0 26 14A 24 13A 22 12A	
XA537	TQ2	A4	07B	C521PA	00	=		E2.(INSTR)
XA537	TQ2	A4	05B	(15)	01		C521Q0 CE02M0 11 05B 13 06B	
XA532	TS8	D1	25B	C521Q0	00	=		RAH/RSH/SBT/RBT/RIH/REH/RMH/
XA532	TS8	D1	26A	(47)	01		C156CA C116CA C117CA C136CA CX34EA C135CA C137CA SPA159 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA537	TQ2	B4	13B	C521RA	00	=		E3.(MTH/(TSI.AC00*))
XA537	TQ2	B4	11B	(27)	01		C521U0 CE03P0 23 11B 25 12B	
XA540	TT3	B2	09B	C521SA	00	=		E4.IQR.PT03*
XA540	TT3	B2	10A	(19)	01		CE04M0 PT03BP C133D0 18 10A 14 09A 17 08B	
XA540	TT3	B3	13B	C521TA	00	=		E16.TCP.AQ19*
XA540	TT3	B3	10B	(27)	01		CE16C0 C174E0 AQ19BP 21 10B 23 11B 25 12B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA535	TQ2	A1	05A	C521UD	00	=		
XA535	TQ2	A1	07A	(06)	01		C166CA C157EA 10 07A 08 06A	
XA541	TQ2	A4	07B	C522CA	00	=		BTR DB0031MD0031
XA541	TQ2	A4	05B	(15)	01		SPA163 C522C0 11 05B 13 06B	
XA536	TS8	B1	11B	C522C0	00	=		(INSTR EXE)/E1/E3/L4/L7
XA536	TS8	B1	14A	(23)	01		C522NA C522TA C522RA E522CA CG71CA CG42CA C522DA C522SA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA534	TQ2	A2	02B	C522DA	00	=		
XA534	TQ2	A2	04A	(01)	01		C522E0 CE01M0 04 04A 05 03B	
XA538	TD4	B1	11B	C522E0	00	=		
XA538	TD4	B1	14A	(23)	01		C522FA C522JA C522LA C522GA 26 14A 24 13A 22 12A 25 12B	
XA540	TT3	A1	04A	C522FA	00	=		(CLU/CLL/LDU/LDI).MOD0*.MAGR
XA540	TT3	A1	07A	(04)	01		CMOD0A C521J0 MMAGRO 10 07A 08 06A 06 05A	
XA534	TQ2	A3	04B	C522GA	00	=		(SDU/SDL/TST).MAGR
XA534	TQ2	A3	02A	(09)	01		MMAGRO C522H0 03 02A 07 03A	
XA535	TQ2	A2	02B	C522H0	00	=		SDU/SDL/TST
XA535	TQ2	A2	04A	(01)	01		C612JA CX45EA 04 04A 05 03B	
XA534	TQ2	A4	07B	C522JA	00	=		
XA534	TQ2	A4	05B	(15)	01		C522K0 SPA159 11 05B 13 06B	
XA535	TQ2	A3	04B	C522K0	00	=		SDF/MZF
XA535	TQ2	A3	02A	(09)	01		C046CA C047CA 03 02A 07 03A	
XA535	TQ2	A4	07B	C522LA	00	=		HIT.(MOD0/MAGR)
XA535	TQ2	A4	05B	(15)	01		C072C0 C522M0 11 05B 13 06B	
XA534	TQ2	B1	12A	C522M0	00	=		MOD0/MAGR
XA534	TQ2	B1	14A	(22)	01		MMAGRA CMOD0A 26 14A 24 13A	

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CONNECTOR	CPU	GROUP	TEST POINTS	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND OR					
XA535	TQ2	B1	12A	C522NA	00	=		E2.(INSTR COND)
XA535	TQ2	B1	14A	(22)	01		CE02P0 C522P0 26 14A 24 13A	
XA536	TS8	C1	17B	C522P0	00	=		RAF/RSE/RIF/REF/RNE/EXE/MBA/
XA536	TS8	C1	20A	(35)	01		C056CA C172CA C037CA C036CA C035CA C016CA C017CA C522QA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA534	TQ2	B2	09A	C522QA	00	=		TQR.MAGR
XA534	TQ2	B2	11A	(14)	01		C522W0 MMAGRO 20 11A 18 10A	
XA534	TQ2	B3	10B	C522RA	00	=		E4.SSF
XA534	TQ2	B3	08B	(21)	01		CE04M0 C057C0 17 08B 19 09B	
XA535	TQ2	B2	09A	C522SA	00	=		E6.RQF
XA535	TQ2	B2	11A	(14)	01		CE06C0 C033D0 20 11A 18 10A	
XA535	TQ2	B3	10B	C522TA	00	=		E1.MASP,(CL=SPEC ADDR)
XA535	TQ2	B3	08B	(21)	01		CF01C0 C522U0 17 08B 19 09B	
XA122	TT3	F3	39A	C522U0	00	=		CL=SPECIAL ADDRESS,
XA122	TT3	F3	35A	(80)	01		CLSPAA CR02BP C522VA 69 35A 76 37A 78 38A	
XA425	TQ2	A2	02B	C522VA	00	=		MASP.XEXN
XA425	TQ2	A2	04A	(01)	01		CMASPO C066C0 04 04A 05 03B	
XA535	TQ2	F4	39A	C522W0	00	=		
XA535	TQ2	F4	37A	(80)	01		C133DA C166FA 76 37A 78 38A	
XA534	TQ2	B4	13B	C523CA	00	=		BTR DB2431MD0815
XA534	TQ2	B4	11B	(27)	01		SPA159 C523C0 23 11B 25 12B	
XA535	TQ2	B4	13B	C523C0	00	=		
XA535	TQ2	B4	11B	(27)	01		C523DA C523FA 23 11B 25 12B	
XA540	TT3	A2	03A	C523DA	00	=		E2.(SOL/MIL).MA15*
XA540	TT3	A2	03B	(07)	01		MA15P0 C523E0 CE02P0 05 03B 01 02B 03 02A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	RELATION	FACTOR	COMMENT
XA535	TQ2	C1	18A	C523EO	00	=		
XA535	TQ2	C1	20A	(38)	01		C155CA C143CA 42 20A 40 19A	SDL/MIL
XA534	TQ2	C1	18A	C523FA	00	=		
XA534	TQ2	C1	20A	(38)	01		CE04M0 C175C0 42 20A 40 19A	E4.LDD
XA503	TQ2	D3	24B	C523F0	00	=		
XA503	TQ2	D3	22B	(45)	01		C524FA SPI043 41 22B 43 23B	
XA540	TT3	A3	07B	C524DA	00	=		
XA540	TT3	A3	04B	(15)	01		CE02P0 C524E0 MA15Q0 09 04B 11 05B 13 06B	BTR DB2431MD1623
XA535	TQ2	C2	15A	C524E0	00	=		
XA535	TQ2	C2	17A	(30)	01		C045CA C055CA 36 17A 34 16A	SDU/MTU
XA410	TQ2	C4	19B	C524FA	00	=		
XA410	TQ2	C4	17B	(39)	01		C175C0 CE05C0 35 17B 37 18B	
XA534	TQ2	C2	15A	C525CA	00	=		
XA534	TQ2	C2	17A	(30)	01		C525C0 SPA159 36 17A 34 16A	BTR DB1631MD1631
XA528	TD4	A2	04B	C525C0	00	=		
XA528	TD4	A2	04A	(09)	01		C525FA C525EA C525DA C525GA 04 04A 05 03B 01 02B 07 03A	
XA534	TQ2	C3	16B	C525DA	00	=		
XA534	TQ2	C3	14B	(33)	01		C521E0 MA15Q0 29 14B 31 15B	(INSTR) MA15
XA538	TD4	C1	17B	C525EA	00	=		
XA538	TD4	C1	20A	(35)	01		PT03Q0 SPA162 CE04M0 C133D0 42 20A 40 19A 38 18A 37 18B	E4.TQR,PT03
XA543	TQ2	B3	10B	C525FA	00	=		
XA543	TQ2	B3	08B	(21)	01		CE11C0 C608E0 17 08B 19 09B	E12.(TXP/TCP/TIE)
XA538	TD4	D1	25B	C525GA	00	=		
XA538	TD4	D1	26A	(47)	01		C174E0 AQ19BQ CE16C0 SPA162 56 26A 54 25A 52 24A 49 26B	E16.TCP,AQ19

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
			AND	OR					
XA538	TD4	D2	24B		C526DA	00	H		E2.(SDL/MIL).MA15
XA538	TD4	D2	23A		(45)	01		MA15Q0 SPA162 C523E0 CE02P0 50 23A 48 22A 46 21A 43 23B	
XA535	TQ2	C3	16B		C527DA	00	=		INH MB0215YA0619
XA535	TQ2	C3	14B		(33)	01		CE00C0 C527E0 29 14B 31 15B	
XA536	TS8	E1	31B		C527E0	00	=		LDF/LDH/SMH/SDF/SDH/MZF/MZH/
XA536	TS8	E1	33A		(59)	01		C505EA C056DA CX34EA CX40EA C133DA CX55CA CX67EA SPAJ60 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA534	TQ2	C4	19B		C527FA	00	=		E3.(MBA/XP/TCP/TIE/LDD)
XA534	TQ2	C4	17B		(39)	01		C527G0 CE03P0 35 17B 37 18B	
XA535	TQ2	C4	19B		C527G0	00	=		MBA/XP/TCP/TIE/LDD
XA535	TQ2	C4	17B		(39)	01		C612RA C172CA 35 17B 37 18B	
XA534	TQ2	D1	24A		C527HA	00	=		E6.(TXP/TCP/TIE)
XA534	TQ2	D1	26A		(52)	01		CE06C0 C608E0 56 26A 54 25A	
XA535	TQ2	D1	24A		C527JA	00	=		E14.TCP
XA535	TQ2	D1	26A		(52)	01		C174E0 CE14C0 56 26A 54 25A	
XA538	TD4	F1	37A		C527KA	00	=		L102/L202/L302/L402/L502/L602
XA538	TD4	F1	39B		(76)	01		SPA162 CD02C0 CSX7CA CSOLC0 79 39B 77 38B 75 37B 78 38A	
XA534	TQ2	D2	21A		C528DA	00	=		DTR PL0207YA2025
XA534	TQ2	D2	23A		(46)	01		C528E0 CE03P0 50 23A 48 22A	
XA535	TQ2	D2	21A		C528E0	00	=		TCP/TIE/LDD
XA535	TQ2	D2	23A		(46)	01		CX75CA C174CA 50 23A 48 22A	
XA541	TQ2	A1	05A		C529CA	00	=		
XA541	TQ2	A1	07A		(06)	01		C529C0 UMPE1B 10 07A 08 06A	
XA537	TQ2	F3	35A		C529C0	00	=		
XA537	TQ2	F3	34B		(69)	01		C523FA C529DA 65 34B 74 35B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA530	TT3	A2	03A	C529DA	00	=		
XA530	TT3	A2	03B	(07)	01		C510X0 CEO1M0 C521L0 05 03B 01 02B 03 02A	
XA302	TQ2	A2	02B	C601CA	00	=		RST PT02
XA302	TQ2	A2	04A	(01)	01		C601C0 SPA069 04 04A 05 03B	
XA310	TT3	A3	07B	C601C0	00	=		E1.TQR/L300/L306.(COND)
XA310	TT3	A3	04B	(15)	01		C601DA C601FA CG30CA 09 04B 11 05B 13 06B	
XA302	TQ2	A3	04B	C601DA	00	=		E1.TQR
XA302	TQ2	A3	02A	(09)	01		C133E0 CEO1P0 03 02A 07 03A	
XA302	TQ2	A4	07B	C601FA	00	=		L306.CK04.CK05.
XA302	TQ2	A4	05B	(15)	01		C601G0 CG36C0 11 05B 13 06B	
XA302	TQ2	B1	12A	C601GA	00	=		CK04.CK05
XA302	TQ2	B1	14A	(22)	01		CK05Q0 CK04BQ 26 14A 24 13A	
XA305	TQ2	C1	18A	C601G0	00	=		
XA305	TQ2	C1	20A	(38)	01		SPA072 C601GA 42 20A 40 19A	
XA305	TQ2	C2	15A	C602CA	00	=		SET PT02
XA305	TQ2	C2	17A	(30)	01		C601GA CG36C0 36 17A 34 16A	
XA302	TQ2	B2	09A	C603CA	00	=		RST PT03
XA302	TQ2	B2	11A	(14)	01		C603C0 SPA069 20 11A 18 10A	
XA401	TT3	B2	09B	C603C0	00	=		E1.TQR/L300/L306.(COND)
XA401	TT3	B2	10A	(19)	01		C603FA CG30CA C601DA 18 10A 14 09A 17 08B	
XA302	TQ2	B3	10B	C603FA	00	=		L306.CK04.CK05*
XA302	TQ2	B3	08B	(21)	01		CG36C0 C603G0 17 08B 19 09B	
XA302	TQ2	B4	13B	C603GA	00	=		CK04.CK05*
XA302	TQ2	B4	11B	(27)	01		CK05BP CK04BQ 23 11B 25 12B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DETERMINATOR	FACTOR	COMMENT
XA305	TQ2	C3	16B	C603GO	00	=		
XA305	TQ2	C3	14B	(33)	01		C603GA SPA071 29 14B 31 15B	
XA302	TQ2	C1	18A	C604CA	00	=		SET PT03
XA302	TQ2	C1	20A	(38)	01		C604C0 SPA070 42 20A 40 19A	
XA415	TQ2	F4	39A	C604C0	00	=		
XA415	TQ2	F4	37A	(80)	01		C604DA C618EA 76 37A 78 38A	L306. (CK04. CK05*)*
XA305	TQ2	B3	10B	C604DA	00	=		ENABLE CLK CLK UNQUAL
XA305	TQ2	B3	08B	(21)	01		C636C0 C603GA 17 08B 19 09B	
XA302	TQ2	C2	15A	C605CA	00	=		BLO PQ0015DB0015
XA302	TQ2	C2	17A	(30)	01		C605C0 SPA069 36 17A 34 16A	
XA401	TT3	B1	11A	C605C0	00	=		
XA401	TT3	B1	14A	(20)	01		C671CA C605DA E605CA 26 14A 24 13A 22 12A	
XA310	TT3	B2	09B	C605DA	00	=		E1. (LDF/EXF). MAQR
XA310	TT3	B2	10A	(19)	01		CE01P0 C605E0 MMAQR0 18 10A 14 09A 17 08B	
XA306	TQ2	A4	07B	C605E0	00	=		LDF/EXF
XA306	TQ2	A4	05B	(15)	01		C056DA C040CA 11 05B 13 06B	
XA302	TQ2	C3	16B	C606CA	00	=		BLO PQ0015DB1631
XA302	TQ2	C3	14B	(33)	01		SPA069 C606C0 29 14B 31 15B	
XA305	TQ2	C4	19B	C606C0	00	=		
XA305	TQ2	C4	17B	(39)	01		C606DA C606FA 35 17B 37 18B	
XA307	TD4	F1	37A	C606DA	00	=		E1. (INSIR). MAQR. MA15*
XA307	TD4	F1	39B	(76)	01		MMAQR0 MA15P0 CE01P0 C606E0 79 39B 77 38B 75 37B 78 38A	
XA401	TT3	A2	03A	C606E0	00	=		SBT/RBT/LDH/TSZ/TSO
XA401	TT3	A2	03B	(07)	01		C140CA CX67FA CX34EA 05 03B 01 02B 03 02A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DECR ANALYS	FACTOR	COMMENT
XA401	TT3	B3	13B	C606FA	00 =			
XA401	TT3	B3	10B	(27)	01		MMAQRO CE01P0 CX55C0 21 10B 23 11B 25 12B	E1.(MIU/MIL).MAQR
XA302	TQ2	C4	19B	C607CA	00 =			
XA302	TQ2	C4	17B	(39)	01		C607C0 SPA069 35 17B 37 18B	BLO.PT0207DB1823
XA310	TT3	B3	13B	C607C0	00 =			
XA310	TT3	B3	10B	(27)	01		C607DA C607FA CG71CA 21 10B 23 11B 25 12B	
XA307	TD4	E1	31B	C607DA	00 =			
XA307	TD4	E1	33A	(59)	01		MMAQRO C607E0 MA15Q0 CE01P0 70 33A 68 32A 66 31A 61 32B	E1.(INSTR).MAQR.MA15
XA306	TQ2	E4	33B	C607E0	00 =			
XA306	TQ2	E4	31B	(63)	01		CX67FA C140CA 59 31B 61 32B	LDR/TSZ/TSD
XA401	TT3	A3	07B	C607FA	00 =			
XA401	TT3	A3	04B	(15)	01		CE01P0 C607G0 MMAQRO 09 04B 11 05B 13 06B	E1.(LDF/EXE).MAQR
XA402	TQ2	A2	02B	C607G0	00 =			
XA402	TQ2	A2	04A	(01)	01		C056DA C040CA 04 04A 05 03B	LDF/EXE
XA302	TQ2	D1	24A	C608CA	00 =			
XA302	TQ2	D1	25A	(52)	01		C608C0 SPA070 56 26A 54 25A	
XA401	TT3	C1	17A	C608C0	00 =			
XA401	TT3	C1	20A	(36)	01		CG51CA C608FA C608DA 42 20A 40 19A 38 18A	
XA302	TQ2	D2	21A	C608DA	00 =			
XA302	TQ2	D2	23A	(46)	01		CE05M0 C608E0 50 23A 48 22A	E5.(TXP/TCP/TIE)
XA302	TQ2	D3	24B	C608EA	00 =			
XA302	TQ2	D3	22B	(45)	01		SPA069 C608E0 41 22B 43 23B	
XA305	TQ2	D4	27B	C608E0	00 =			
XA305	TQ2	D4	25B	(51)	01		CX74CA C075CA 47 25B 49 26B	TXP/TCP/TIE



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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA302	TQ2	D4 27B	C608FA	00 =		E13.TCP	
XA302	TQ2	D4 25B	(51)	01	C17400 CE13C0 47 25B 49 26B		
XA302	TQ2	E1 31A	C609DA	00 =		BLO PT0001DB2425	
XA302	TQ2	E1 33A	(66)	01	CE10C0 C608E0 70 33A 68 32A		
XA406	TQ2	A1 05A	C610CA	00 =		BLO PL0207DB2631	
XA406	TQ2	A1 07A	(06)	01	SPA107 C610C0 10 07A 08 06A		
XA409	TD4	A2 04B	C610C0	00 =			
XA409	TD4	A2 04A	(09)	01	CG12CA C610GA C607DA C607FA 04 04A 05 03B 01 02B 07 03A		
XA406	TQ2	A2 02B	C610GA	00 =		E10.(TXP/TIE)	
XA406	TQ2	A2 04A	(01)	01	CE10C0 C608E0 04 04A 05 03B		
XA305	TQ2	E1 31A	C611CA	00 =		BLO PT0207DB2631	
XA305	TQ2	E1 33A	(66)	01	SPA072 C611C0 70 33A 68 32A		
XA307	TD4	E2 30B	C611C0	00 =			
XA307	TD4	E2 30A	(57)	01	CG22CA C611DA C611EA SPA073 64 30A 62 29A 60 28A 55 29B		
XA305	TQ2	E2 28A	C611DA	00 =		E3.TQR	
XA305	TQ2	E2 30A	(60)	01	CE03P0 C133E0 64 30A 62 29A		
XA305	TQ2	E3 30B	C611EA	00 =		E6.TQR	
XA305	TQ2	E3 28B	(57)	01	C133E0 CE06C0 53 28B 55 29B		
XA302	TQ2	A1 05A	C612AA	00 =		SET P000 EXIT UNLESS CTS INH	
XA302	TQ2	A1 07A	(06)	01	UMPE1B C612C0 10 07A 08 06A		
XA304	TS8	A1 05B	C612C0	00 =		(INS EXE COND)/E02	
XA304	TS8	A1 07A	(11)	01	C612YA C612SA CF02CA C612NA C612QA C612DA CF04CA C612LA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B		
XA307	TD4	B2 10B	C612DA	00 =		E1.(INSTR).M000*.MASP*	
XA307	TD4	B2 11A	(21)	01	CM000A CMASPA CE01P0 C612E0 20 11A 18 10A 14 09A 19 09B		

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESIG. FACTOR	FACTOR	COMMENT
XA301	TS8	B1	11B	C612EO	00	=		
XA301	TS8	B1	14A	(23)	01		CX2XCA C612GA C612HA CX1XCA C612FA SPA069 SPA070 C612JA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA401	TT3	C2	15B	C612FA	00	=		ROW3.(RQE/TQR/SRT/RRT)*
XA401	TT3	C2	16A	(31)	01		CX3XDO CX34EA CX33CA 34 16A 30 15A 29 14B	
XA302	TQ2	E2	28A	C612GA	00	=		
XA302	TQ2	E2	30A	(60)	01		SPA070 C612G0 64 30A 62 29A	
XA301	TS8	C1	17B	C612G0	00	=		LDU/LDL/LA/LC/LMH/SD/FXH/SSE/
XA301	TS8	C1	20A	(35)	01		C156CA C044EA CX57CA C203HA CX41EA CX45EA CX72CA C166FA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA305	TQ2	D3	24B	C612HA	00	=		
XA305	TQ2	D3	22B	(45)	01		SPA071 C612H0 41 22B 43 23B	
XA307	TD4	D1	25B	C612H0	00	=		DEV/DEX/TTR/QFR/TXP/TCP/TIE/
XA307	TD4	D1	26A	(47)	01		CX74CA CX70CA CX71CA CX75CA 56 26A 54 25A 52 24A 49 26B	
XA302	TQ2	E3	30B	C612JA	00	=		(X INSTRS).(MOD1/MOD3)
XA302	TQ2	E3	28B	(57)	01		CC08Q0 C612K0 53 28B 55 29B	
XA302	TQ2	E4	33B	C612KA	00	=		
XA302	TQ2	E4	31B	(63)	01		C612K0 SPA070 59 31B 61 32B	
XA301	TS8	D1	25B	C612K0	00	=		X INSTRS
XA301	TS8	D1	26A	(47)	01		CX64CA CX65CA CX63CA CX62CA C066CA CX60CA C061CA C161CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA301	TS8	E1	31B	C612LA	00	=		INSTR.MOD0*.MAGR*.MAPC*.MAQR*
XA301	TS8	E1	33A	(59)	01		CM000A CE01P0 C612M0 SPA070 MMAQRA MMAGRA MC122A SPA069 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA304	TS8	F1	37A	C612M0	00	=		SRT/RRT/LDE/LDH/SMH/SDH/MZH/
XA304	TS8	F1	39B	(76)	01		CX40EA C147CA C146CA CX67FA CX55EA C144CA C056DA CX34EA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA401	TT3	C3	19B	C612NA	00	=		F1.TQR(MASP*/MAQT)
XA401	TT3	C3	16B	(39)	01		C612P0 CE01P0 C133E0 33 16B 35 17B 37 18B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA402	TQ2	A3	04B	C612PO	00	=		
XA402	TQ2	A3	02A	(09)	01		MMAQTA CMA5PO 03 02A 07 03A	MASP*/MAQT
XA302	TQ2	F1	37B	C612QA	00	=		
XA302	TQ2	F1	39B	(75)	01		CE04CO C612RO 79 39B 77 38B	E4.(TXP/TCP/TIE/LOD)
XA302	TQ2	F2	34A	C612RA	00	=		
XA302	TQ2	F2	36B	(72)	01		C612RO SPA070 73 36B 71 36A	
XA306	TQ2	F3	35A	C612RO	00	=		
XA306	TQ2	F3	34B	(69)	01		CI75CA C608EA 65 34B 74 35B	(TXP/TCP/TIE/LOD)
XA302	TQ2	F3	35A	C612SA	00	=		
XA302	TQ2	F3	34B	(69)	01		C612U0 CE07CO 65 34B 74 35B	E7.(TXP/TCP/TIE)
XA302	TQ2	F4	39A	C612TA	00	=		
XA302	TQ2	F4	37A	(80)	01		CE15CO C174DO 76 37A 78 38A	E15.TCP
XA306	TQ2	F4	39A	C612U0	00	=		
XA306	TQ2	F4	37A	(80)	01		C608EA SPA073 76 37A 78 38A	TXP/TCP/TIE/- OPOL
XA402	TQ2	A4	07B	C613AA	00	=		
XA402	TQ2	A4	05B	(15)	01		UMPEIB C613CO 11 05B 13 06B	SET PQ01 EXIT UNLESS CTS INH
XA406	TQ2	A3	04B	C613CO	00	=		
XA406	TQ2	A3	02A	(09)	01		C613DA C667CA 03 02A 07 03A	LEV CHG STATES L103/L203/
XA401	TT3	D2	23B	C613DA	00	=		
XA401	TT3	D2	22A	(43)	01		CSX4CA CS0LCO CD03CO 48 22A 46 21A 41 22B	STATE03.(L1/2/3/5/6).L403*
XA402	TQ2	A1	05A	C614CA	00	=		
XA402	TQ2	A1	07A	(06)	01		C218CA C614CO 10 07A 08 06A	SET PQ03-MEM VIO
XA401	TT3	A1	04A	C614CO	00	=		
XA401	TT3	A1	07A	(04)	01		C614HA C614DA CF01CA 10 07A 08 06A 06 05A	(INSTR E01)/F01/F03.M003

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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA307	TD4	F2 35A	C614DA	00 =		E0.(INSTR).MOD0*	
XA307	TD4	F2 36B	(69)	01		C614E0 SPA073 CM000A CE00C0 73 36B 71 36A 72 34A 74 35B	
XA404	TS8	D1 25B	C614E0	00 =		ROW1/2/3/14E/12.1/14G	
XA404	TS8	D1 26A	(47)	01		SPA106 C612JA C614GA C614FA CX4XAA CX3XAA CX1XCA CX2XCA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA406	TQ2	D2 21A	C614FA	00 =		14F	
XA406	TQ2	D2 23A	(46)	01		C614F0 SPA108 50 23A 48 22A	
XA401	TT3	D3 27B	C614F0	00 =		MI/EX/SSE/MTH	
XA401	TT3	D3 24B	(51)	01		CX56CA CX57CA CX55EA 45 24B 47 25B 49 26B	
XA406	TQ2	D3 24B	C614GA	00 =		14G	
XA406	TQ2	D3 22B	(45)	01		C614G0 SPA108 41 22B 43 23B	
XA404	TS8	E1 31B	C614G0	00 =		DEV/DEX/ITR/DEF/HIT/MRA/	
XA404	TS8	E1 33A	(59)	01		SPA106 C166FA CX70CA CX72CA CX67FA CX71CA CX74CA CX75CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA406	TQ2	D4 27B	C614HA	00 =		F3.MOD3	
XA406	TQ2	D4 25B	(51)	01		CM0D30 CF03C0 47 25B 49 26B	
XA406	TQ2	B4 13B	C614JA	00 =			
XA406	TQ2	B4 11B	(27)	01		CX55C0 CE00C0 23 11B 25 12B	
XA308	TQ2	F4 39A	C615CA	00 =			
XA308	TQ2	F4 37A	(80)	01		C218CA C615C0 76 37A 78 38A	
XA406	TQ2	B1 12A	C615C0	00 =			
XA406	TQ2	B1 14A	(22)	01		C506GA C615DA 26 14A 24 13A	
XA401	TT3	D1 23A	C615DA	00 =		SET P005-SPEC VIO	
XA401	TT3	D1 26A	(50)	01		C615E0 CM000A CE00C0 56 26A 54 25A 52 24A	
XA407	TD4	A1 05B	C615EA	00 =			
XA407	TD4	A1 07A	(11)	01		CX67FA CQP08A CX40EA C614E0 10 07A 08 06A 06 05A 13 06B	

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CONNECTOR	GROUP TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM DESIG- NATION	FACTOR	COMMENT
XA402	TQ2	B4	13B	C615E0	00 =		
XA402	TQ2	B4	11B	(27 )	01	C615EA SPA105 23 11B 25 12B	
XA402	TQ2	B2	09A	C616CA	00 =		RST PQ16 LOCK
XA402	TQ2	B2	11A	(14 )	01	C616C0 SPA105 20 11A 18 10A	
XA406	TQ2	B3	10B	C616C0	00 =		
XA406	TQ2	B3	08B	(21 )	01	C616DA C616FA 17 08B 19 09B	
XA402	TQ2	B3	10B	C616DA	00 =		
XA402	TQ2	B3	08B	(21 )	01	C616E0 CE00C0 17 08B 19 09B	
XA401	TT3	E2	29B	C616E0	00 =		DEX/TXP/ICP/TIE/LLR
XA401	TT3	E2	29A	(55 )	01	C100CA C170CA C174CA 62 29A 60 28A 53 28B	
XA401	TT3	E3	33B	C616FA	00 =		E4.TQR.ACZR
XA401	TT3	E3	30B	(63 )	01	C344G0 ACZR00 CMASPO 57 30B 59 31B 61 32B	
XA402	TQ2	B1	12A	C617DA	00 =		SET PQ16 LOCK
XA402	TQ2	B1	14A	(22 )	01	CE00C0 C617E0 26 14A 24 13A	
XA401	TT3	E1	30A	C617E0	00 =		TXP/TIE/LLR
XA401	TT3	E1	33A	(64 )	01	C173CA C075CA C074CA 70 33A 68 32A 66 31A	
XA402	TQ2	C2	15A	C618CA	00 =		DTR PB0003PT0407
XA402	TQ2	C2	17A	(30 )	01	C618C0 SPA105 36 17A 34 16A	
XA401	TT3	F3	39A	C618C0	00 =		AUC TO PT0407
XA401	TT3	F3	35A	(80 )	01	CG35CA C618DA C618EA 69 35A 76 37A 78 38A	
XA402	TQ2	C3	16B	C618DA	00 =		E1.TQR
XA402	TQ2	C3	14B	(33 )	01	C133E0 CE01P0 29 14B 31 15B	
XA402	TQ2	C4	19B	C618EA	00 =		E2.TQR IF ACZR
XA402	TQ2	C4	17B	(39 )	01	C133E0 CE02P0 35 17B 37 18B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERMINAL	DESIGNATOR	FACTOR	COMMENT
XA402	TQ2	D4	27B	C619DA	00	=		
XA402	TQ2	D4	25B	(51)	01		C343J0 C660C0 47 25B 49 26B	LOA +2PL01,+3PL27,+2PL89
XA402	TQ2	C1	18A	C620DA	00	=		
XA402	TQ2	C1	20A	(38)	01		CG60C0 C343JA 42 20A 40 19A	DTR PT0009PL0009, RST PT09 0
XA402	TQ2	D3	24B	C621CA	00	=		
XA402	TQ2	D3	22B	(45)	01		SPA105 C621C0 41 22B 43 23B	BTR DB0015PQ0015
XA401	TT3	F2	35B	C621C0	00	=		
XA401	TT3	F2	36A	(74)	01		C621DA C621JA E621CA 71 36A 72 34A 65 34B	
XA407	T04	A2	04B	C621DA	00	=		
XA407	T04	A2	04A	(09)	01		CE02P0 C621E0 SPA109 MMAQRO 04 04A 05 03B 01 02B 07 03A	F2, (INSTR, QUAL I, MAQR
XA406	TQ2	D1	24A	C621E0	00	=		
XA406	TQ2	D1	26A	(52)	01		C621FA C621HA 56 26A 54 25A	
XA402	TQ2	D2	21A	C621FA	00	=		
XA402	TQ2	D2	23A	(46)	01		MA15P0 C621G0 50 23A 48 22A	(SMH/SDH), MA15*
XA415	TQ2	E3	30B	C621F0	00	=		
XA415	TQ2	E3	28B	(57)	01		C621FA SPI039 53 28B 55 29B	
XA406	TQ2	E4	33B	C621G0	00	=		
XA406	TQ2	E4	31B	(63)	01		C144CA C146CA 59 31B 61 32B	SMH/SDH
XA402	TQ2	D1	24A	C621HA	00	=		
XA402	TQ2	D1	26A	(52)	01		C621H0 SPA105 56 26A 54 25A	
XA406	TQ2	E3	30B	C621H0	00	=		
XA406	TQ2	E3	28B	(57)	01		CX47CA C046CA 53 28B 55 29B	SDF/MZF/MZH
XA504	TT3	F1	36B	C621JA	00	=		
XA504	TT3	F1	39B	(73)	01		CE03P0 C621K0 MMAQRO 79 39B 77 38B 75 37B	AUCTION IE ACZR

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XA406	TQ2	E2	28A	C621K0	00	=		
XA406	TQ2	E2	30A	(60)	01		C621LA C056DA 64 30A 62 29A	21L/EXF
XA402	TQ2	E3	30B	C621LA	00	=		
XA402	TQ2	E3	28B	(57)	01		MA15P0 C621M0 53 28B 55 29B	(SBT/RBT/MIU/MIL).MA15*
XA415	TQ2	E4	33B	C621L0	00	=		
XA415	TQ2	E4	31B	(63)	01		C621LA SPY039 59 31B 61 32B	
XA402	TQ2	E4	33B	C621MA	00	=		
XA402	TQ2	E4	31B	(63)	01		C621M0 SPA105 59 31B 61 32B	
XA406	TQ2	E1	31A	C621M0	00	=		
XA406	TQ2	E1	33A	(66)	01		CX55EA CX34EA 70 33A 68 32A	SBT/RBT/MIU/MIL
XA402	TQ2	E1	31A	C622DA	00	=		
XA402	TQ2	E1	33A	(66)	01		C622EA CG40C0 70 33A 68 32A	DTR PLO207PQ1015
XA406	TQ2	F4	39A	C622EA	00	=		
XA406	TQ2	F4	37A	(80)	01		UPRLT0 PLE3C0 76 37A 78 38A	TRAC.PLE3
XA402	TQ2	E2	28A	C623CA	00	=		
XA402	TQ2	E2	30A	(60)	01		C623C0 SPA105 64 30A 62 29A	BTR DB0001PT0001
XA406	TQ2	F3	35A	C623C0	00	=		
XA406	TQ2	F3	34B	(69)	01		CG53CA C623DA 65 34B 74 35B	E7.(TXP/TCP/TIE)/ L503
XA402	TQ2	F1	37B	C623DA	00	=		
XA402	TQ2	F1	39B	(75)	01		C612U0 CE07C0 79 39B 77 38B	E7.(TXP/TCP/TIE)
XA402	TQ2	F2	34A	C624DA	00	=		
XA402	TQ2	F2	36B	(72)	01		CR01Q0 CG20C0 73 36B 71 36A	LQA +2PT0207
XA402	TQ2	F3	35A	C625DA	00	=		
XA402	TQ2	F3	34B	(69)	01		CE04C0 C612U0 65 34B 74 35B	BTR DB2631PT0207.(+77PT QUAL)

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA406	TQ2	A4	07B	C626CA	00	=		SET PQ02, PQ05 IN FETCH 02
XA406	TQ2	A4	05B	(15)	01		SPA107 CE02P0 11 05B 13 06B	
XA317	TQ2	E4	33B	C701CA	00	=		EXE IDEF, BTR DB1631TD1631
XA317	TQ2	E4	31B	(63)	01		CX70C0 CE02P0 59 31B 61 32B	
XA317	TQ2	F1	37B	C702CA	00	=		EXE ITR, BTR DB1631TD1631
XA317	TQ2	F1	39B	(75)	01		C071C0 CE02P0 79 39B 77 38B	
XA317	TQ2	F2	34A	C703CA	00	=		EXE IOER, BTR DB1631TD1631
XA317	TQ2	F2	36B	(72)	01		CE02P0 C171C0 73 36B 71 36A	
XA317	TQ2	F3	35A	C704CA	00	=		EXE IOER, BTR DB0031TD0031
XA317	TQ2	F3	34B	(69)	01		C171C0 CE03P0 65 34B 74 35B	
XA317	TQ2	F4	39A	C705CA	00	=		BLO TD0031DB0031
XA317	TQ2	F4	37A	(80)	01		CE03P0 C071C0 76 37A 78 38A	
XA323	TQ2	F4	39A	DB00C0	00	=		
XA323	TQ2	F4	37A	(80)	01		DB00DB SPA086 76 37A 78 38A	DATA BUS- 00
				DB00DB	00	=		
XA325	YLD	F4	39A	( )	01		DC00ND 80 39A	INDICATOR REG DRV TO D B0016
XA326	YLD	F4	39A	( )	02	+	DC00RD 80 39A	PWR OFF STATUS TO DB00
XA327	YLD	F4	39A	( )	03	+	DC00SD 80 39A	CS TO DB0013 FOR CTS D ISP
XA333	YLD	F4	39A	( )	04	+	DP00QD 80 39A	QUERY REG DRIVERS TO D BU
XA332	YLD	F4	39A	( )	05	+	DP00LD 80 39A	PL REG TO DB0009
XA321	TQ2	F4	39A	DB00P0	00	=		
XA321	TQ2	F4	37A	(80)	01		DB00DB SPA081 76 37A 78 38A	DATA BUS- 00
XA323	TQ2	F3	35A	DB01C0	00	=		
XA323	TQ2	F3	34B	(69)	01		DB01DB SPA086 65 34B 74 35B	DATA BUS- 01



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				DB01DB	00	=		
XA325	TLD	F3	35A	( )	01		DC01ND 69 35A	
XA326	TLD	F3	35A	( )	02	+	DC01RD 69 35A	IO ERROR EXIT STATUS T Q DB01
XA327	TLD	F3	35A	( )	03	+	DC01SD 69 35A	
XA333	TLD	F3	35A	( )	04	+	DP01QD 69 35A	
XA332	TLD	F3	35A	( )	05	+	DP01LD 69 35A	
				DB01P0	00	=		
XA321	TQ2	F3	34B	(69 )	01		SPA081 DB01DB 65 34B 74 35B	
				DB02C0	00	=		
XA323	TQ2	F2	34A	(72 )	01		SPA086 DB02DB 73 36B 71 36A	
				DB02DB	00	=		
XA325	TLD	F2	34A	( )	01		DC02ND 72 34A	
XA326	TLD	F2	34A	( )	02	+	DC02RD 72 34A	TRAP STATUS TO DB02
XA327	TLD	F2	34A	( )	03	+	DC02SD 72 34A	
XA332	TLD	F2	34A	( )	04	+	DP02QD 72 34A	
XA331	TLD	F2	34A	( )	05	+	DP02LD 72 34A	
				DB02P0	00	=		
XA321	TQ2	F2	36B	(72 )	01		DB02DB SPA081 73 36B 71 36A	DATA BUS- 02
				DB03C0	00	=		
XA323	TQ2	F1	37B	(75 )	01		SPA086 DB03DB 79 39B 77 38B	
				DB03DB	00	=		
XA325	TLD	F1	37B	( )	01		DC03ND 75 37B	
XA326	TLD	F1	37B	( )	02	+	DC03RD 75 37B	
XA327	TLD	F1	37B	( )	03	+	DC03SD 75 37B	
XA332	TLD	F1	37B	( )	04	+	DP03QD 75 37B	
XA331	TLD	F1	37B	( )	05	+	DP03LD 75 37B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG. PREFIX	FACTOR	COMMENT
			AND	OR					
XA321	TQ2	F1	37B		DB03P0	00	=		
XA321	TQ2	F1	39B		(75)	01		SPA081 DB03DB 79 39B 77 38B	
XA323	TQ2	E4	33B		DB04C0	00	=		
XA323	TQ2	E4	31B		(63)	01		DB04DB SPA086 59 31B 61 32B	DATA BUS- 04
					DB04DB	00	=		
XA325	TLD	E4	33B		( )	01		DC04ND 63 33B	
XA326	TLD	E4	33B		( )	02	+	DC04RD 63 33B	AUCTION STATUS TO DB04
XA327	TLD	E4	33B		( )	03	+	DC04SD 63 33B	
XA332	TLD	E4	33B		( )	04	+	DP04QD 63 33B	
XA331	TLD	E4	33B		( )	05	+	DP04LD 63 33B	
XA321	TQ2	E4	33B		DB04P0	00	=		
XA321	TQ2	E4	31B		(63)	01		SPA081 DB04DB 59 31B 61 32B	
XA323	TQ2	E3	30B		DB05C0	00	=		
XA323	TQ2	E3	28B		(57)	01		DB05DB SPA085 53 28B 55 29B	DATA BUS-05
					DB05DB	00	=		
XA325	TLD	E3	30B		( )	01		DC05ND 57 30B	
XA326	TLD	E3	30B		( )	02	+	DC05RD 57 30B	LEV CHNG BY INS STATUS I/DB05
XA327	TLD	E3	30B		( )	03	+	DC05SD 57 30B	
XA332	TLD	E3	30B		( )	04	+	DP05QD 57 30B	
XA331	TLD	E3	30B		( )	05	+	DP05LD 57 30B	
XA321	TQ2	E3	30B		DB05P0	00	=		
XA321	TQ2	E3	28B		(57)	01		SPA081 DB05DB 53 28B 55 29B	
XA323	TQ2	E2	28A		DB06C0	00	=		
XA323	TQ2	E2	30A		(60)	01		SPA086 DB06DB 64 30A 62 29A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
				DB06DB	00	=		
XA325	TLD	E2	28A	( )	01		DC06ND 60 28A	
XA326	TLD	E2	28A	( )	02	+	DC06RD 60 28A	DIAGNOSE STATUS TO DB06
XA327	TLD	E2	28A	( )	03	+	DC06SD 60 28A	
XA331	TLD	E2	28A	( )	04	+	DP06QD 60 28A	
XA330	TLD	E2	28A	( )	05	+	DP06LD 60 28A	
XA321	TQ2	E2	28A	DB06P0	00	=		
XA321	TQ2	E2	30A	(60 )	01		DB06DB SPA081 64 30A 62 29A	DATA BUS-06
XA323	TQ2	E1	31A	DB07C0	00	=		
XA323	TQ2	E1	33A	(66 )	01		SPA086 DB07DB 70 33A 68 32A	
				DB07DB	00	=		
XA325	TLD	E1	31A	( )	01		DC07ND 66 31A	
XA326	TLD	E1	31A	( )	02	+	DC07RD 66 31A	BOOTSTRAP STATUS TO DB07
XA327	TLD	E1	31A	( )	03	+	DC07SD 66 31A	
XA331	TLD	E1	31A	( )	04	+	DP07QD 66 31A	
XA330	TLD	E1	31A	( )	05	+	DP07LD 66 31A	
XA321	TQ2	E1	31A	DB07P0	00	=		
XA321	TQ2	E1	33A	(66 )	01		DB07DB SPA081 70 33A 68 32A	DATA BUS-07
XA324	TQ2	F4	39A	DB08C0	00	=		
XA324	TQ2	F4	37A	(80 )	01		SPA088 DB08DB 76 37A 78 38A	
				DB08DB	00	=		
XA329	TLD	F4	39A	( )	02	+	DC08SD 80 39A	LEV CHNG BIN MSB TO DB08
XA331	TLD	F4	39A	( )	03	+	DP08QD 80 39A	
XA330	TLD	F4	39A	( )	04	+	DP08LD 80 39A	
XA328	TLD	F4	39A	( )	06	+	DC08ND 80 39A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA322	TQ2	F4	39A	DB08P0	00	=		
XA322	TQ2	F4	37A	(80)	01		DB08DB SPA084 76 37A 78 38A	DATA BUS- 08
XA324	TQ2	F3	35A	DB09C0	00	=		
XA324	TQ2	F3	34B	(69)	01		SPA088 DB09DB 65 34B 74 35B	
				DB09DB	00	=		
XA328	TLD	F3	35A	( )	01		DC09ND 69 35A	
XA329	TLD	F3	35A	( )	02	+	DC09SD 69 35A	LEV CHNG BIN BIT TO DB 09
XA331	TLD	F3	35A	( )	03	+	DP09QD 69 35A	
XA330	TLD	F3	35A	( )	04	+	DP09LD 69 35A	
XA322	TQ2	F3	35A	DB09P0	00	=		
XA322	TQ2	F3	34B	(69)	01		DB09DB SPA084 65 34B 74 35B	DATA BUS- 09
XA324	TQ2	F2	34A	DB10C0	00	=		
XA324	TQ2	F2	36B	(72)	01		DB10DB SPA088 73 36B 71 36A	DATA BUS- 10
				DB10DB	00	=		
XA328	TLD	F2	34A	( )	01		DC10ND 72 34A	
XA329	TLD	F2	34A	( )	02	+	DC10SD 72 34A	LEV CHNG BIN LSB TO DB 10
XA330	TLD	F2	34A	( )	03	+	DP10QD 72 34A	
XA322	TQ2	F2	34A	DB10P0	00	=		
XA322	TQ2	F2	36B	(72)	01		SPA084 DB10DB 73 36B 71 36A	
XA324	TQ2	F1	37B	DB11C0	00	=		
XA324	TQ2	F1	39B	(75)	01		DB11DB SPA089 79 39B 77 38B	DATA BUS- 11
				DB11DB	00	=		
XA328	TLD	F1	37B	( )	01		DC11ND 75 37B	
XA329	TLD	F1	37B	( )	02	+	DC11SD 75 37B	LEVEL CHANGE STATE TO DB11
XA330	TLD	F1	37B	( )	03	+	DP11QD 75 37B	

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XA322	TQ2	F1	37B	DB11P0	00	=		
XA322	TQ2	F1	39B	(75)	01		SPA084 DB11DB 79 39B 77 38B	
XA324	TQ2	E4	33B	DB12C0	00	=		
XA324	TQ2	E4	31B	(63)	01		SPA088 DB12DB 59 31B 61 32B	
				DB12DB	00	=		
XA328	TLD	E4	33B	( )	01		DC12ND 63 33B	
XA329	TLD	E4	33B	( )	02	+	DC12SD 63 33B	EXECUTION STATE TO DB1 2
XA330	TLD	E4	33B	( )	03	+	DPI2QD 63 33B	
XA322	TQ2	E4	33B	DB12P0	00	=		
XA322	TQ2	E4	31B	(63)	01		DB12DB SPA083 59 31B 61 32B	DATA BUS- 12
XA324	TQ2	E3	30B	DB13C0	00	=		
XA324	TQ2	E3	28B	(57)	01		DB13DB SPA088 53 28B 55 29B	DATA BUS- 13
				DB13DB	00	=		
XA328	TLD	E3	30B	( )	01		DC13ND 57 30B	
XA329	TLD	E3	30B	( )	02	+	DC13SD 57 30B	FETCH STATE TO DB13
XA330	TLD	E3	30B	( )	03	+	DPI3QD 57 30B	T
XA322	TQ2	E3	30B	DB13P0	00	=		
XA322	TQ2	E3	28B	(57)	01		SPA083 DB13DB 53 28B 55 29B	
XA324	TQ2	E2	28A	DB14C0	00	=		
XA324	TQ2	E2	30A	(60)	01		DB14DB SPA088 64 30A 62 29A	DATA BUS- 14
				DB14DB	00	=		
XA329	TLD	E2	28A	( )	01		DPI4QD 60 28A	T
XA328	TLD	E2	28A	( )	02	+	DC14ND 60 28A	
XA322	TQ2	E2	28A	DB14P0	00	=		
XA322	TQ2	E2	30A	(60)	01		DB14DB SPA083 64 30A 62 29A	DATA BUS- 14

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XA324	TQ2	E1	31A	DB15C0	00	=		
XA324	TQ2	E1	33A	(66)	01		DB15DB SPA088 70 33A 68 32A	DATA BUS- 15
				DB15DB	00	=		
XA329	YLD	E1	31A	( )	01		DP15QD 66 31A	T
XA328	YLD	E1	31A	( )	02	+	DC15ND 66 31A	
XA322	TQ2	E1	31A	DB15P0	00	=		
XA322	TQ2	E1	33A	(66)	01		SPA083 DB15DB 70 33A 68 32A	
XA324	TQ2	D4	27B	DB16C0	00	=		
XA324	TQ2	D4	25B	(51)	01		SPA088 DB16DB 47 25B 49 26B	
				DB16DB	00	=		
XA325	YLD	D4	27B	( )	01		DC16CD 51 27B	COMMAND DRVRS TO DB163
XA326	YLD	D4	27B	( )	02	+	DC16LD 51 27B	CL DRVRS TO DB1630
XA327	YLD	D4	27B	( )	03	+	DC16ND 51 27B	INDICATOR REG DRV TO DB1631
XA329	YLD	D4	27B	( )	04	+	DP16RD 51 27B	
XA328	YLD	D4	27B	( )	05	+	DP16QD 51 27B	T
XA323	TQ2	D4	27B	DB16PA	00	=		
XA323	TQ2	D4	25B	(51)	01		SPA085 DB16P0 47 25B 49 26B	
XA322	TQ2	D4	27B	DB16P0	00	=		
XA322	TQ2	D4	25B	(51)	01		DB16DB SPA083 47 25B 49 26B	DATA BUS- 16
XA324	TQ2	D3	24B	DB17C0	00	=		
XA324	TQ2	D3	22B	(45)	01		SPA087 DB17DB 41 22B 43 23B	
				DB17DB	00	=		
XA325	YLD	D3	24B	( )	01		DC17CD 45 24B	
XA326	YLD	D3	24B	( )	02	+	DC17LD 45 24B	
XA327	YLD	D3	24B	( )	03	+	DC17ND 45 24B	
XA328	YLD	D3	24B	( )	04	+	DP17QD 45 24B	T

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA333	TLD	F1	37B	( )	05	+	DP17RD 75 37B	
XA323	TQ2	D3	24B	DB17PA	00	=		
XA323	TQ2	D3	22B	(45 )	01		SPA085 DB17P0 41 22B 43 23B	
XA322	TQ2	D3	24B	DB17P0	00	=		
XA322	TQ2	D3	22B	(45 )	01		SPA083 DB17DB 41 22B 43 23B	
XA324	TQ2	D2	21A	DB18C0	00	=		
XA324	TQ2	D2	23A	(46 )	01		DB18DB SPA088 50 23A 48 22A	DATA BUS- 18
XA325	TLD	D2	21A	DB18DB	00	=		
				( )	01		DC18CD 46 21A	
XA326	TLD	D2	21A	( )	02	+	DC18LD 46 21A	
XA327	TLD	D2	21A	( )	03	+	DC18ND 46 21A	
XA329	TLD	D2	21A	( )	04	+	DP18TD 46 21A	TIENT PROG REG DRV TO D B1823
XA328	TLD	D2	21A	( )	05	+	DP18QD 46 21A	T
XA323	TQ2	D2	21A	DB18PA	00	=		
XA323	TQ2	D2	23A	(46 )	01		SPA085 DB18P0 50 23A 48 22A	
XA322	TQ2	D2	21A	DB18P0	00	=		
XA322	TQ2	D2	23A	(46 )	01		SPA083 DB18DB 50 23A 48 22A	
XA324	TQ2	D1	24A	DB19C0	00	=		
XA324	TQ2	D1	26A	(52 )	01		DB19DB SPA088 56 26A 54 25A	DATA BUS- 19
XA325	TLD	D1	24A	DB19DB	00	=		
				( )	01		DC19CD 52 24A	
XA326	TLD	D1	24A	( )	02	+	DC19LD 52 24A	
XA327	TLD	D1	24A	( )	03	+	DC19ND 52 24A	
XA329	TLD	D1	24A	( )	04	+	DP19TD 52 24A	
XA328	TLD	D1	24A	( )	05	+	DP19QD 52 24A	T

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CONNECTOR	CAGE TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM DESIGNATION	FACTOR	COMMENT
XA323	TQ2	D1	24A	DB19PA	00 =		
XA323	TQ2	D1	26A	(52)	01	DB19P0 SPA085 56 26A 54 25A	
XA322	TQ2	D1	24A	DB19P0	00 =		
XA322	TQ2	D1	26A	(52)	01	SPA083 DB19DB 56 26A 54 25A	
XA324	TQ2	C4	19B	DB20C0	00 =		
XA324	TQ2	C4	17B	(39)	01	SPA087 DB20DB 35 17B 37 18B	
				DB20DB	00 =		
XA325	TLD	C4	19B	( )	01	DC20CD 39 19B	
XA326	TLD	C4	19B	( )	02 +	DC20LD 39 19B	
XA327	TLD	C4	19B	( )	03 +	DC20ND 39 19B	
XA330	TLD	C4	19B	( )	04 +	DP20UD 39 19B	TTENT PROG REG DRV TO D B2025
XA328	TLD	C4	19B	( )	05 +	DP20QD 39 19B	T
XA329	TLD	C4	19B	( )	06 +	DP20TD 39 19B	
XA323	TQ2	C4	19B	DB20PA	00 =		
XA323	TQ2	C4	17B	(39)	01	SPA085 DB20P0 35 17B 37 18B	
XA322	TQ2	C4	19B	DB20P0	00 =		
XA322	TQ2	C4	17B	(39)	01	SPA083 DB20DB 35 17B 37 18B	
XA324	TQ2	C3	16B	DB21C0	00 =		
XA324	TQ2	C3	14B	(33)	01	SPA087 DB21DB 29 14B 31 15B	
				DB21DB	00 =		
XA325	TLD	C3	16B	( )	01	DC21CD 33 16B	
XA326	TLD	C3	16B	( )	02 +	DC21LD 33 16B	
XA327	TLD	C3	16B	( )	03 +	DC21ND 33 16B	
XA330	TLD	C3	16B	( )	04 +	DP21UD 33 16B	
XA328	TLD	C3	16B	( )	05 +	DP21QD 33 16B	T
XA329	TLD	C3	16B	( )	06 +	DP21TD 33 16B	



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DB21PA

LOGIC

UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

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CONNECTOR	WIRE TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERMINAL	REG. NO.	FUNCTION	FACTOR	COMMENT
XA323	TQ2	C3	16B	DB21PA	00	=			
XA323	TQ2	C3	14B	(33)	01	=	SPA085 DB21P0 29 14B 31 15B		
XA322	TQ2	C3	16B	DB21P0	00	=			
XA322	TQ2	C3	14B	(33)	01	=	SPA082 DB2108 29 14B 31 15B		
XA324	TQ2	C2	15A	DB22C0	00	=			
XA324	TQ2	C2	17A	(30)	01	=	SPA087 DB2208 36 17A 34 16A		
				DB22DB	00	=			
XA325	TLD	C2	15A	( )	01	=	DC22C0 30 15A		
XA326	TLD	C2	15A	( )	02	+	DC22LD 30 15A		
XA327	TLD	C2	15A	( )	03	+	DC22ND 30 15A		
XA330	TLD	C2	15A	( )	04	+	DP22UD 30 15A		
XA328	TLD	C2	15A	( )	05	+	DP22QD 30 15A	T	
XA329	TLD	C2	15A	( )	06	+	DP22TD 30 15A		
XA323	TQ2	C2	15A	DB22PA	00	=			
XA323	TQ2	C2	17A	(30)	01	=	DB22P0 SPA085 36 17A 34 16A		
XA322	TQ2	C2	15A	DB22P0	00	=			
XA322	TQ2	C2	17A	(30)	01	=	DB22DB SPA082 36 17A 34 16A	DATA BUS- 22	
XA324	TQ2	C1	18A	DB23C0	00	=			
XA324	TQ2	C1	20A	(38)	01	=	SPA087 DB23DB 42 20A 40 19A		
				DB23DB	00	=			
XA325	TLD	C1	18A	( )	01	=	DC23C0 38 18A		
XA326	TLD	C1	18A	( )	02	+	DC23LD 38 18A		
XA327	TLD	C1	18A	( )	03	+	DC23ND 38 18A		
XA330	TLD	C1	18A	( )	04	+	DP23UD 38 18A		
XA328	TLD	C1	18A	( )	05	+	DP23QD 38 18A	T	
XA329	TLD	C1	18A	( )	06	+	DP23TD 38 18A		

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LOGIC

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA323	TQ2	C1	18A	DB23PA	00	=		
XA323	TQ2	C1	20A	(38)	01		SPA085 DB23P0 42 20A 40 19A	
XA322	TQ2	C1	18A	DB23P0	00	=		
XA322	TQ2	C1	20A	(38)	01		DB230B SPA083 42 20A 40 19A	DATA BUS- 23
XA324	TQ2	B4	13B	DB24C0	00	=		
XA324	TQ2	B4	11B	(27)	01		SPA087 DB240B 23 11B 25 12B	
				DB24DB	00	=		
XA325	YLD	B4	13B	( )	01		DC24CD 27 13B	
XA326	YLD	B4	13B	( )	02	+	DC24LD 27 13B	
XA327	YLD	B4	13B	( )	03	+	DC24ND 27 13B	
XA330	YLD	B4	13B	( )	04	+	DP24UD 27 13B	
XA328	YLD	B4	13B	( )	05	+	DP24QD 27 13B	T
XA329	YLD	B4	13B	( )	06	+	DP24TD 27 13B	TTENT PROG REG DRV DB24 25
XA323	TQ2	B4	13B	DB24PA	00	=		
XA323	TQ2	B4	11B	(27)	01		SPA084 DB24P0 23 11B 25 12B	
XA322	TQ2	B4	13B	DB24P0	00	=		
XA322	TQ2	B4	11B	(27)	01		DB24DB SPA082 23 11B 25 12B	DATA BUS- 24
XA324	TQ2	B3	10B	DB25C0	00	=		
XA324	TQ2	B3	08B	(21)	01		SPA087 DB25DB 17 08B 19 09B	
				DB25DB	00	=		
XA325	YLD	B3	10B	( )	01		DC25C0 21 10B	
XA326	YLD	B3	10B	( )	02	+	DC25LD 21 10B	
XA327	YLD	B3	10B	( )	03	+	DC25ND 21 10B	
XA330	YLD	B3	10B	( )	04	+	DP25UD 21 10B	
XA328	YLD	B3	10B	( )	05	+	DP25QD 21 10B	T
XA329	YLD	B3	10B	( )	06	+	DP25TD 21 10B	

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DB25PA

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA323	TQ2	B3	10B	DB25PA	00	=		
XA323	TQ2	B3	08B	(21)	01		DB25P0 SPA084 17 08B 19 09B	
XA322	TQ2	B3	10B	DB25P0	00	=		
XA322	TQ2	B3	08B	(21)	01		DB25DB SPA082 17 08B 19 09B	DATA BUS- 25
XA324	TQ2	B2	09A	DB26C0	00	=		
XA324	TQ2	B2	11A	(14)	01		DB26DB SPA087 20 11A 18 10A	DATA BUS- 26
				DB26DB	00	=		
XA325	TLD	B2	09A	( )	01		DC26CD 14 09A	
XA326	TLD	B2	09A	( )	02	+	DC26KD 14 09A	CK DRV TO DATA BUS
XA327	TLD	B2	09A	( )	03	+	DC26LD 14 09A	
XA328	TLD	B2	09A	( )	04	+	DC26ND 14 09A	
XA329	TLD	B2	09A	( )	05	+	DC26XD 14 09A	CNSTS +43,+60 TO +76 T 0 DBI
XA331	TLD	B2	09A	( )	06	+	DP26QD 14 09A	T
XA332	TLD	B2	09A	( )	07	+	DP26TD 14 09A	TTENT PROG REG DRV TO D B2631
XA330	TLD	B2	09A	( )	08	+	DP26LD 14 09A	TAPL PRL DRIVERS TO DAT A BUS
XA323	TQ2	B2	09A	DB26PA	00	=		
XA323	TQ2	B2	11A	(14)	01		DB26P0 SPA084 20 11A 18 10A	
XA322	TQ2	B2	09A	DB26P0	00	=		
XA322	TQ2	B2	11A	(14)	01		SPA082 DB26DB 20 11A 18 10A	
XA324	TQ2	B1	12A	DB27C0	00	=		
XA324	TQ2	B1	14A	(22)	01		DB27DB SPA087 26 14A 24 13A	DATA BUS- 27
				DB27DB	00	=		
XA326	TLD	B1	12A	( )	02	+	DC27KD 22 12A	
XA327	TLD	B1	12A	( )	03	+	DC27LD 22 12A	
XA328	TLD	B1	12A	( )	04	+	DC27ND 22 12A	
XA329	TLD	B1	12A	( )	05	+	DC27XD 22 12A	CNSTS +36,+60 TO +76 T 0 DBI

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERN	DESIGNATOR	FACTOR	COMMENT
XA331	TLD	B1	12A	( )	06	+	DP27QD 22 12A	T
XA332	TLD	B1	12A	( )	07	+	DP27TD 22 12A	
XA330	TLD	B1	12A	( )	08	+	DP27LD 22 12A	
XA325	TLD	B1	12A	( )	09	+	DC27CD 22 12A	
XA323	TQ2	B1	12A	DB27PA	00	=		
XA323	TQ2	B1	14A	(22 )	01		DB27P0 SPA085 26 14A 24 13A	
XA322	TQ2	B1	12A	DB27P0	00	=		
XA322	TQ2	B1	14A	(22 )	01		SPA082 DB27DB 26 14A 24 13A	
XA324	TQ2	A4	07B	DB28C0	00	=		
XA324	TQ2	A4	05B	(15 )	01		DB28DB SPA087 11 05B 13 06B	DATA BUS- 28
XA325	TLD	A4	07B	DB28DB	00	=		
XA325	TLD	A4	07B	( )	01		DC28CD 15 07B	
XA326	TLD	A4	07B	( )	02	+	DC28HD 15 07B	H.FLD DRV TO DB2831
XA327	TLD	A4	07B	( )	03	+	DC28KD 15 07B	
XA329	TLD	A4	07B	( )	05	+	DC28ND 15 07B	
XA330	TLD	A4	07B	( )	06	+	DC28XD 15 07B	CNSTS +36,+60 TO +76 T
XA333	TLD	A4	07B	( )	07	+	DP28TD 15 07B	0 DBL
XA332	TLD	A4	07B	( )	08	+	DP28QD 15 07B	T
XA331	TLD	A4	07B	( )	09	+	DP28LD 15 07B	
XA328	TLD	A4	07B	( )	10	+	DC28LD 15 07B	
XA323	TQ2	A4	07B	DB28PA	00	=		
XA323	TQ2	A4	05B	(15 )	01		SPA084 DB28P0 11 05B 13 06B	
XA322	TQ2	A4	07B	DB28P0	00	=		
XA322	TQ2	A4	05B	(15 )	01		DB28DB SPA082 11 05B 13 06B	DATA BUS- 28

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TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
XA324	TQ2	A3	04B	DB29C0	00	=		
XA324	TQ2	A3	02A	(09)	01		DB29DB SPA086 03 02A 07 03A	DATA BUS- 29
				DB29DB	00	=		
XA325	TLD	A3	04B	( )	01		DC29CD 09 04B	
XA326	TLD	A3	04B	( )	02	+	DC29HD 09 04B	
XA327	TLD	A3	04B	( )	03	+	DC29KD 09 04B	
XA328	TLD	A3	04B	( )	04	+	DC29LD 09 04B	
XA329	TLD	A3	04B	( )	05	+	DC29ND 09 04B	
XA330	TLD	A3	04B	( )	06	+	DC29OD 09 04B	CNSTS +36, +60 TO +76 T 0 DBI
XA333	TLD	A3	04B	( )	07	+	DP29TD 09 04B	
XA332	TLD	A3	04B	( )	08	+	DP29QD 09 04B	T
XA331	TLD	A3	04B	( )	09	+	DP29LD 09 04B	
XA323	TQ2	A3	04B	DB29PA	00	=		
XA323	TQ2	A3	02A	(09)	01		SPA084 DB29P0 03 02A 07 03A	
XA322	TQ2	A3	04B	DB29P0	00	=		
XA322	TQ2	A3	02A	(09)	01		SPA082 DB29DB 03 02A 07 03A	
XA324	TQ2	A2	02B	DB30C0	00	=		
XA324	TQ2	A2	04A	(01)	01		SPA086 DB30DB 04 04A 05 03B	
				DB30DB	00	=		
XA325	TLD	A2	02B	( )	01		DC30CD 01 02B	
XA326	TLD	A2	02B	( )	02	+	DC30HD 01 02B	
XA327	TLD	A2	02B	( )	03	+	DC30KD 01 02B	
XA328	TLD	A2	02B	( )	04	+	DC30LD 01 02B	
XA329	TLD	A2	02B	( )	05	+	DC30ND 01 02B	
XA330	TLD	A2	02B	( )	06	+	DC30OD 01 02B	CNSTS +36, +43, +60 TO + 76 DBI
XA333	TLD	A2	02B	( )	07	+	DP30TD 01 02B	

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DB30DB

LOGIC

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA332	TLD	A2	02B	( )	08	+	DP30QD	T
XA331	TLD	A2	02B	( )	09	+	01 02B DP30LD 01 02B	
XA322	TQ2	A2	02B	DB30P0	00	=		
XA322	TQ2	A2	04A	(01 )	01		DB30DB SPA082 04 04A 05 03B	DATA BUS- 30
XA324	TQ2	A1	05A	DB31C0	00	=		
XA324	TQ2	A1	07A	(06 )	01		DB31DB SPA086 10 07A 08 06A	DATA BUS- 31
XA325	TLD	A1	05A	DB31DB	00	=	( ) 01	
XA326	TLD	A1	05A	( )	02	+	DC31CD 06 05A	
XA327	TLD	A1	05A	( )	03	+	DC31HD 06 05A	
XA328	TLD	A1	05A	( )	04	+	DC31KD 06 05A	CNST +43 TO DB2631
XA329	TLD	A1	05A	( )	05	+	DC31LD 06 05A	
XA330	TLD	A1	05A	( )	06	+	DE311D 06 05A	CNST +1 TO DB31 IN ATE S
XA333	TLD	A1	05A	( )	07	+	DP31TD 06 05A	
XA332	TLD	A1	05A	( )	08	+	DP31QD 06 05A	T
XA331	TLD	A1	05A	( )	09	+	DP31LD 06 05A	
XA322	TQ2	A1	05A	DB31P0	00	=		
XA322	TQ2	A1	07A	(06 )	01		SPA082 DB31DB 10 07A 08 06A	
XA325	TLD	F4	39A	DC00ND	00	=		
XA325	TLD	F4	37A	(80 )	01		CN08B0 CN00BQ 76 37A 78 38A	DB00DB BUSS
XA326	TLD	F4	39A	DC00RD	00	=		
XA326	TLD	F4	37A	(80 )	01		CR00BQ CRDBL0 76 37A 78 38A	DB00DB BUSS
XA327	TLD	F4	39A	DC00SD	00	=		
XA327	TLD	F4	37A	(80 )	01		CS00BQ CSDBL0 76 37A 78 38A	DB00DB BUSS

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DC01ND

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA325	TLD	F3	35A	DC01ND	00	=		
XA325	TLD	F3	34B	(69)	01		CNDBLO CN01BQ 65 34B 74 35B	DB01DB BUSS
XA326	TLD	F3	35A	DC01RD	00	=		
XA326	TLD	F3	34B	(69)	01		CR01BQ CRDBLO 65 34B 74 35B	DB01DB BUSS
XA327	TLD	F3	35A	DC01SD	00	=		
XA327	TLD	F3	34B	(69)	01		CSDBLO CS01BQ 65 34B 74 35B	DB01DB BUSS
XA325	TLD	F2	34A	DC02ND	00	=		
XA325	TLD	F2	36B	(72)	01		CN02BQ CNDBLO 73 36B 71 36A	DB02DB BUSS
XA326	TLD	F2	34A	DC02RD	00	=		
XA326	TLD	F2	36B	(72)	01		CRDBLO CR02BQ 73 36B 71 36A	DB02DB BUSS
XA327	TLD	F2	34A	DC02SD	00	=		
XA327	TLD	F2	36B	(72)	01		CSDBLO CS02BQ 73 36B 71 36A	DB02DB BUSS
XA325	TLD	F1	37B	DC03ND	00	=		
XA325	TLD	F1	39B	(75)	01		CN03BQ CNDBLO 79 39B 77 38B	DB03DB BUSS
XA326	TLD	F1	37B	DC03RD	00	=		
XA326	TLD	F1	39B	(75)	01		CR11BQ CRDBLO 79 39B 77 38B	DB03DB BUSS
XA327	TLD	F1	37B	DC03SD	00	=		
XA327	TLD	F1	39B	(75)	01		CSDBLO CS03BQ 79 39B 77 38B	DB03DB BUSS
XA325	TLD	E4	33B	DC04ND	00	=		
XA325	TLD	E4	31B	(63)	01		CNDBLO CN04BQ 59 31B 61 32B	DB04DB BUSS
XA326	TLD	E4	33B	DC04RD	00	=		
XA326	TLD	E4	31B	(63)	01		CR04BQ CRDBMO 59 31B 61 32B	DB04DB BUSS
XA327	TLD	E4	33B	DC04SD	00	=		
XA327	TLD	E4	31B	(63)	01		CS04BQ CSDBLO 59 31B 61 32B	DB04DB BUSS

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DC05ND

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM NO.	DESIGN NOTES	FACTOR	COMMENT
XA325	TLD	E3	30B	DC05ND	00	=		
XA325	TLD	E3	28B	(57)	01		CN05BQ CNDBL0 53 28B 55 29B	DR05DB BUSS
XA326	TLD	E3	30B	DC05RD	00	=		
XA326	TLD	E3	28B	(57)	01		CRDBM0 CRO5BQ 53 28B 55 29B	DR05DB BUSS
XA327	TLD	E3	30B	DC05SD	00	=		
XA327	TLD	E3	28B	(57)	01		CS05BQ CSDBL0 53 28B 55 29B	DR05DB BUSS
XA325	TLD	E2	28A	DC06ND	00	=		
XA325	TLD	E2	30A	(60)	01		CNDBM0 CN06BQ 64 30A 62 29A	DR06DB BUSS
XA326	TLD	E2	28A	DC06RD	00	=		
XA326	TLD	E2	30A	(60)	01		CRDBM0 ES0TBQ 64 30A 62 29A	DR06DB BUSS
XA327	TLD	E2	28A	DC06SD	00	=		
XA327	TLD	E2	30A	(60)	01		CSDBL0 CS06BQ 64 30A 62 29A	DR06DB BUSS
XA325	TLD	E1	31A	DC07ND	00	=		
XA325	TLD	E1	33A	(66)	01		CN07BQ CNDBM0 70 33A 68 32A	DR07DB BUSS
XA326	TLD	E1	31A	DC07RD	00	=		
XA326	TLD	E1	33A	(66)	01		CRDBM0 CS0BBQ 70 33A 68 32A	DR07DB BUSS
XA327	TLD	E1	31A	DC07SD	00	=		
XA327	TLD	E1	33A	(66)	01		CSDBM0 CS07BQ 70 33A 68 32A	DR07DB BUSS
XA328	TLD	F4	39A	DC08ND	00	=		
XA328	TLD	F4	37A	(80)	01		CN08BQ CNDBN0 76 37A 78 38A	DR28DB BUSS
XA329	TLD	F4	39A	DC08SD	00	=		
XA329	TLD	F4	37A	(80)	01		CS10BQ CSDBM0 76 37A 78 38A	DR08DB BUSS
XA328	TLD	F3	35A	DC09ND	00	=		
XA328	TLD	F3	34B	(69)	01		CN09BQ CNDBM0 65 34B 74 35B	DR09DB BUSS



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA329	TLD	F3	35A		DC09SD	00	=		DB09DB BUSS
XA329	TLD	F3	34B		(69)	01		C5DBM0 C5I1Q0 65 34B 74 35B	
XA328	TLD	F2	34A		DC10ND	00	=		DB10DB BUSS
XA328	TLD	F2	36B		(72)	01		CN10BQ CNDBM0 73 36B 71 36A	
XA329	TLD	F2	34A		DC10SD	00	=		DB10DB BUSS
XA329	TLD	F2	36B		(72)	01		C5DBM0 C5I2Q0 73 36B 71 36A	
XA328	TLD	F1	37B		DC11ND	00	=		DB11DB BUSS
XA328	TLD	F1	39B		(75)	01		CN11BQ CNDBM0 79 39B 77 38B	
XA329	TLD	F1	37B		DC11SD	00	=		DB11DB BUSS
XA329	TLD	F1	39B		(75)	01		C50LBQ C5DBM0 79 39B 77 38B	
XA328	TLD	E4	33B		DC12ND	00	=		DB12DB BUSS
XA328	TLD	E4	31B		(63)	01		CN12BQ CNDBN0 59 31B 61 32B	
XA329	TLD	E4	33B		DC12SD	00	=		DB12DB BUSS
XA329	TLD	E4	31B		(63)	01		C5DBM0 C50EBQ 59 31B 61 32B	
XA328	TLD	E3	30B		DC13ND	00	=		DB13DB BUSS
XA328	TLD	E3	28B		(57)	01		CN13BQ CNDBN0 53 28B 55 29B	
XA329	TLD	E3	30B		DC13SD	00	=		DB13DB BUSS
XA329	TLD	E3	28B		(57)	01		C50FBQ C5DBM0 53 28B 55 29B	
XA328	TLD	E2	28A		DC14ND	00	=		DB14DB BUSS
XA328	TLD	E2	30A		(60)	01		CNDBN0 CN14BQ 64 30A 62 29A	
XA328	TLD	E1	31A		DC15ND	00	=		DB15DB BUSS
XA328	TLD	E1	33A		(66)	01		CN15BQ CNDBN0 70 33A 68 32A	
XA325	TLD	D4	27B		DC16CD	00	=		DB16DB BUSS
XA325	TLD	D4	25B		(51)	01		CCBLU0 CC00BQ 47 25B 49 26B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA326	TLD	D4	27B		DC16LD	00	=		
XA326	TLD	D4	25B		(51)	01		CL00BQ CLDBLB 47 25B 49 26B	
XA327	TLD	D4	27B		DC16ND	00	=		
XA327	TLD	D4	25B		(51)	01		CNDBPO CNO0BQ 47 25B 49 26B	
XA325	TLD	D3	24B		QC17CD	00	=		
XA325	TLD	D3	22B		(45)	01		CCBLUO CCO1BQ 41 22B 43 23B	
XA326	TLD	D3	24B		DC17LD	00	=		
XA326	TLD	D3	22B		(45)	01		CLO1BQ CLDBLB 41 22B 43 23B	
XA327	TLD	D3	24B		DC17ND	00	=		
XA327	TLD	D3	22B		(45)	01		CNDBPO CNO1BQ 41 22B 43 23B	
XA325	TLD	D2	21A		DC18CD	00	=		
XA325	TLD	D2	23A		(46)	01		CC02BQ CCBLUO 50 23A 48 22A	
XA326	TLD	D2	21A		DC18LD	00	=		
XA326	TLD	D2	23A		(46)	01		CLDBLB CLO2BQ 50 23A 48 22A	BLO CLO007DB1623
XA327	TLD	D2	21A		DC18ND	00	=		
XA327	TLD	D2	23A		(46)	01		CNO2BQ CNDBPO 50 23A 48 22A	
XA325	TLD	D1	24A		DC19CD	00	=		
XA325	TLD	D1	26A		(52)	01		CCBLUO CCO3BQ 56 26A 54 25A	
XA326	TLD	D1	24A		DC19LD	00	=		
XA326	TLD	D1	26A		(52)	01		CLDBLB CLO3BQ 56 26A 54 25A	BLO CLO007DB1623
XA327	TLD	D1	24A		DC19ND	00	=		
XA327	TLD	D1	26A		(52)	01		CNDBPO CNO3BQ 56 26A 54 25A	
XA325	TLD	C4	19B		DC20CD	00	=		
XA325	TLD	C4	17B		(39)	01		CCBLVO CCO4BQ 35 17B 37 18B	

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CONNECTOR	CAGE TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGN- NATOR	FACTOR	COMMENT
XA326	TLD	C4	19B	DC20LD	00	=		DB20DB BUSS
XA326	TLD	C4	17B	(39)	01		CL04BQ CLD8LB 35 17B 37 18B	
XA327	TLD	C4	19B	DC20ND	00	=		DB20DB BUSS
XA327	TLD	C4	17B	(39)	01		CND8P0 CNO4BQ 35 17B 37 18B	
XA325	TLD	C3	16B	DC21CD	00	=		DB21DB BUSS
XA325	TLD	C3	14B	(33)	01		CCBLV0 CC05BQ 29 14B 31 15B	
XA326	TLD	C3	16B	DC21LD	00	=		DB21DB BUSS
XA326	TLD	C3	14B	(33)	01		CLD8LB CL05BQ 29 14B 31 15B	BLO CL0007DB1623
XA327	TLD	C3	16B	DC21ND	00	=		DB21DB BUSS
XA327	TLD	C3	14B	(33)	01		CNO5BQ CND8P0 29 14B 31 15B	
XA325	TLD	C2	15A	DC22CD	00	=		DB22DB BUSS
XA325	TLD	C2	17A	(30)	01		CC06BQ CCBLV0 36 17A 34 16A	
XA326	TLD	C2	15A	DC22LD	00	=		DB22DB BUSS
XA326	TLD	C2	17A	(30)	01		CLD8LB CL06BQ 36 17A 34 16A	BLO CL0007DB1623
XA327	TLD	C2	15A	DC22ND	00	=		DB22DB BUSS
XA327	TLD	C2	17A	(30)	01		CND8Q0 CNO6BQ 36 17A 34 16A	
XA325	TLD	C1	18A	DC23CD	00	=		DB23DB BUSS
XA325	TLD	C1	20A	(38)	01		CC07BQ CCBLV0 42 20A 40 19A	
XA326	TLD	C1	18A	DC23LD	00	=		DB23DB BUSS
XA326	TLD	C1	20A	(38)	01		CLD8LB CL07BQ 42 20A 40 19A	BLO CL0007DB1623
XA327	TLD	C1	18A	DC23ND	00	=		DB23DB BUSS
XA327	TLD	C1	20A	(38)	01		CND8Q0 CNO7BQ 42 20A 40 19A	
XA325	TLD	B4	13B	DC24CD	00	=		DB24DB BUSS
XA325	TLD	B4	11B	(27)	01		CCBLLO CC08BQ 23 11B 25 12B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	GROUP	FACTOR	COMMENT
XA326	TLD	B4	13B	DC24LD	00	=		
XA326	TLD	B4	11B	(27)	01		CLDBNO CLO8BQ 23 11B 25 12B	DB24DB BUSS
XA327	TLD	B4	13B	DC24ND	00	=		
XA327	TLD	B4	11B	(27)	01		CNO8QO CNO8BQ 23 11B 25 12B	DB24DB BUSS
XA325	TLD	B3	10B	DC25CQ	00	=		
XA325	TLD	B3	08B	(21)	01		CC09BQ CC8LLO 17 08B 19 09B	DB25DB BUSS
XA326	TLD	B3	10B	DC25LD	00	=		
XA326	TLD	B3	08B	(21)	01		CL09BQ CLDBNO 17 08B 19 09B	DB25DB BUSS
XA327	TLD	B3	10B	DC25ND	00	=		
XA327	TLD	B3	08B	(21)	01		CNO9BQ CNO8QO 17 08B 19 09B	DB25DB BUSS
XA325	TLD	B2	09A	DC26CD	00	=		
XA325	TLD	B2	11A	(14)	01		CC8LLO CC10BQ 20 11A 18 10A	DB26DB BUSS
XA326	TLD	B2	09A	DC26KD	00	=		
XA326	TLD	B2	11A	(14)	01		CKDBLO CK00BQ 20 11A 18 10A	DB26DB BUSS
XA327	TLD	B2	09A	DC26LD	00	=		
XA327	TLD	B2	11A	(14)	01		CLDBNO CL10BQ 20 11A 18 10A	DB26DB BUSS
XA328	TLD	B2	09A	DC26ND	00	=		
XA328	TLD	B2	11A	(14)	01		CN10BQ CNO8QO 20 11A 18 10A	DB26DB BUSS
XA329	TLD	B2	09A	DC26XD	00	=		
XA329	TLD	B2	11A	(14)	01		DC26XO SPA089 20 11A 18 10A	DB26DB BUSS
XA415	TQ2	C1	18A	DC26XO	00	=		
XA415	TQ2	C1	20A	(38)	01		C0843A CMD1BP 42 20A 40 19A	
XA325	TLD	B1	12A	DC27CD	00	=		
XA325	TLD	B1	14A	(22)	01		CC8LLO CC11BQ 26 14A 24 13A	DB27DB BUSS

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	RELATION	FACTOR	COMMENT
XA326	TLD	B1	12A	DC27KD	00	=		DB27DB BUSS
XA326	TLD	B1	14A	(22)	01		CK01BQ CKDBL0 26 14A 24 13A	
XA327	TLD	B1	12A	DC27LD	00	=		DB27DB BUSS
XA327	TLD	B1	14A	(22)	01		CL11BQ CLDBN0 26 14A 24 13A	
XA328	TLD	B1	12A	DC27ND	00	=		DB27DB BUSS
XA328	TLD	B1	14A	(22)	01		CN11BQ CNDBQ0 26 14A 24 13A	
XA329	TLD	B1	12A	DC27XD	00	=		DB27DB BUSS
XA329	TLD	B1	14A	(22)	01		DC27X0 SPA089 26 14A 24 13A	
XA415	TQ2	C2	15A	DC27X0	00	=		
XA415	TQ2	C2	17A	(30)	01		CMD1BP CDB36A 36 17A 34 16A	
XA325	TLD	A4	07B	DC28CD	00	=		DB28DB BUSS
XA325	TLD	A4	05B	(15)	01		CCBLM0 CCI2BQ 11 05B 13 06B	
XA326	TLD	A4	07B	DC28HD	00	=		DB28DB BUSS
XA326	TLD	A4	05B	(15)	01		CCBHL0 CC09BQ 11 05B 13 06B	
XA327	TLD	A4	07B	DC28KD	00	=		DB28DB BUSS
XA327	TLD	A4	05B	(15)	01		CK02BQ CKDBL0 11 05B 13 06B	
XA328	TLD	A4	07B	DC28LD	00	=		DB28DB BUSS
XA328	TLD	A4	05B	(15)	01		CL12BQ CLDBN0 11 05B 13 06B	
XA329	TLD	A4	07B	DC28ND	00	=		DB28DB BUSS
XA329	TLD	A4	05B	(15)	01		CND8R0 CNI2BQ 11 05B 13 06B	
XA330	TLD	A4	07B	DC28XD	00	=		DB28DB BUSS
XA330	TLD	A4	05B	(15)	01		SPA089 DC28X0 11 05B 13 06B	
XA415	TQ2	C3	16B	DC28X0	00	=		
XA415	TQ2	C3	14B	(33)	01		CDB36A DC286A 29 14B 31 15B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA410	TQ2	E4	33B	DC286A	00	=		
XA410	TQ2	E4	31B	(63)	01		CMD1BQ CMD2BQ 59 31B 61 32B	
XA325	TLD	A3	04B	DC29CD	00	=		DB29DB BUSS
XA325	TLD	A3	02A	(09)	01		CCBLMO CC13BQ 03 02A 07 03A	
XA326	TLD	A3	04B	DC29HD	00	=		DB29DB BUSS
XA326	TLD	A3	02A	(09)	01		CCBHLO CC10BQ 03 02A 07 03A	
XA327	TLD	A3	04B	DC29KD	00	=		DB29DB BUSS
XA327	TLD	A3	02A	(09)	01		CK03BQ CKDBLO 03 02A 07 03A	
XA328	TLD	A3	04B	DC29LD	00	=		DB29DB BUSS
XA328	TLD	A3	02A	(09)	01		CLDBNO CL13BQ 03 02A 07 03A	
XA329	TLD	A3	04B	DC29ND	00	=		DB29DB BUSS
XA329	TLD	A3	02A	(09)	01		CNDBRO CN13BQ 03 02A 07 03A	
XA330	TLD	A3	04B	DC29XD	00	=		DB29DB BUSS
XA330	TLD	A3	02A	(09)	01		SPA089 DC29X0 03 02A 07 03A	
XA415	TQ2	C4	19B	DC29X0	00	=		
XA415	TQ2	C4	17B	(39)	01		CDB36A DC296A 35 17B 37 18B	
XA410	TQ2	A4	07B	DC296A	00	=		
XA410	TQ2	A4	05B	(15)	01		CMD1BQ CMD3BQ 11 05B 13 06B	
XA325	TLD	A2	02B	DC30CD	00	=		DB30DB BUSS
XA325	TLD	A2	04A	(01)	01		CC14BQ CCBLMO 04 04A 05 03B	
XA326	TLD	A2	02B	DC30HD	00	=		DB30DB BUSS
XA326	TLD	A2	04A	(01)	01		CC11BQ CCBHLO 04 04A 05 03B	
XA327	TLD	A2	02B	DC30KD	00	=		DB30DB BUSS
XA327	TLD	A2	04A	(01)	01		CKDBLO CK04BQ 04 04A 05 03B	

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CONNECTOR	CPU/TO	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA328	TLD	A2	02B	DC30LD	00	=		DB30DB BUSS
XA328	TLD	A2	04A	(01)	01		CLDBNO CL148Q 04 04A 05 03B	
XA329	TLD	A2	02B	DC30ND	00	=		DB30DB BUSS
XA329	TLD	A2	04A	(01)	01		CN148Q CNDBRO 04 04A 05 03B	
XA330	TLD	A2	02B	DC30XD	00	=		DB30DB BUSS
XA330	TLD	A2	04A	(01)	01		DC30X0 SPA089 04 04A 05 03B	
XA416	TT3	F2	35B	DC30X0	00	=		
XA416	TT3	F2	35A	(74)	01		CDB43A CDB36A DC306A 71 36A 72 34A 65 34B	
XA415	TQ2	B4	13B	DC306A	00	=		CNSTS +60 TO +76 TO DB
XA415	TQ2	B4	11B	(27)	01		CM01BQ CM048Q 23 11B 25 12B	
XA325	TLD	A1	05A	DC31CD	00	=		DB31DB BUSS
XA325	TLD	A1	07A	(06)	01		CC15BQ CCB1M0 10 07A 08 06A	
XA326	TLD	A1	05A	DC31HD	00	=		DB31DB BUSS
XA326	TLD	A1	07A	(06)	01		CCBHLO CCI2BQ 10 07A 08 06A	
XA327	TLD	A1	05A	DC31KD	00	=		DB31DB BUSS
XA327	TLD	A1	07A	(06)	01		CKDBLO CK05BQ 10 07A 08 06A	
XA329	TLD	A1	05A	DC31ND	00	=		DB31DB BUSS
XA329	TLD	A1	07A	(06)	01		CNDBRO CNI5BQ 10 07A 08 06A	
XA328	TLD	A1	05A	DC314D	00	=		DB31DB BUSS
XA328	TLD	A1	07A	(06)	01		CDB430 SPA089 10 07A 08 06A	
XA121	TS8	C1	17B	DELLUA	00	=		DB2431 ALL ONES
XA121	TS8	C1	20A	(35)	01		DB25C0 DB26C0 DB24C0 DB27C0 DB30C0 DB31C0 DB29C0 DB28C0 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA319	TS8	A1	05B	DELLZA	00	=		DB2431 ALL ZERO
XA319	TS8	A1	07A	(11)	01		DB270B DB260B DB250B DB280B DB290B DB310B DB300B DB240B 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	DATA BUS- 27

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA121	TS8	B1	11B	DELUUA	00	=		DB1623 ALL ONES
XA121	TS8	B1	14A	(23)	01		DB21C0 DB22C0 DB16C0 DB19C0 DB17C0 DB18C0 DB23C0 DB20C0 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA319	TS8	B1	11B	DELUZA	00	=		DB1623 ALL ZERO
XA319	TS8	B1	14A	(23)	01		DB16DB DB17DB DB18DB DB20DB DB21DB DB23DB DB22DB DB19DB 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	DATA BUS- 16
XA319	TS8	C1	17B	DEULUA	00	=		DB0815 ALL ONES
XA319	TS8	C1	20A	(35)	01		DB15C0 DB13C0 DB11C0 DB09C0 DB14C0 DB12C0 DB10C0 DB08C0 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA319	TS8	E1	31B	DEULZA	00	=		DB0815 ALL ZERO
XA319	TS8	E1	33A	(59)	01		DB13DB DB09DB DB15DB DB08DB DB10DB DB14DB DB12DB DB11DB 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	DATA BUS- 13
XA319	TS8	D1	25B	DEUUA	00	=		DB0007 ALL ONES
XA319	TS8	D1	26A	(47)	01		DB07C0 DB06C0 DB05C0 DB01C0 DB02C0 DB04C0 DB00C0 DB03C0 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA319	TS8	F1	37A	DEUUA	00	=		DB0007 ALL ZERO
XA319	TS8	F1	39B	(76)	01		DB04DB DB02DB DB01DB DB07DB DB06DB DB00DB DB05DB DB03DB 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	DATA BUS- 04
XA330	TLD	A1	05A	DE311D	00	=		DB31DB BUSS
XA330	TLD	A1	07A	(06)	01		CRUNBQ ET11C0 10 07A 08 06A	
XA332	TLD	F4	39A	DP00LD	00	=		DB00DB BUSS
XA332	TLD	F4	37A	(80)	01		UDPL00 PLO0BQ 76 37A 78 38A	
XA333	TLD	F4	39A	DP00QD	00	=		DB00DB BUSS
XA333	TLD	F4	37A	(80)	01		PQDBCO PQ00BQ 76 37A 78 38A	
XA332	TLD	F3	35A	DP01LD	00	=		DB01DB BUSS
XA332	TLD	F3	34B	(69)	01		PL01BQ UDPL00 65 34B 74 35B	
XA333	TLD	F3	35A	DP01QD	00	=		DB01DB BUSS
XA333	TLD	F3	34B	(69)	01		PQDBCO PQ01BQ 65 34B 74 35B	
XA331	TLD	F2	34A	DP02LD	00	=		DB02DB BUSS
XA331	TLD	F2	36B	(72)	01		UDPL10 PLO2BQ 73 36B 71 36A	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA332	TLD	F2	34A	DP02QD	00	=		
XA332	TLD	F2	36B	(72 )	01		PQ02BQ PQ08C0 73 36B 71 36A	DB02DB BUSS
XA331	TLD	F1	37B	DP03LD	00	=		
XA331	TLD	F1	39B	(75 )	01		PL03BQ UDPL10 79 39B 77 38B	DB03DB BUSS
XA332	TLD	F1	37B	DP03QD	00	=		
XA332	TLD	F1	39B	(75 )	01		PQ03BQ PQ08C0 79 39B 77 38B	DB03DB BUSS
XA331	TLD	E4	33B	DP04LD	00	=		
XA331	TLD	E4	31B	(63 )	01		PL04BQ UDPL10 59 31B 61 32B	DB04DB BUSS
XA332	TLD	E4	33B	DP04QD	00	=		
XA332	TLD	E4	31B	(63 )	01		PQ08C0 PQ04BQ 59 31B 61 32B	DB04DB BUSS
XA331	TLD	E3	30B	DP05LD	00	=		
XA331	TLD	E3	28B	(57 )	01		PL05BQ UDPL10 53 28B 55 29B	DB05DB BUSS
XA332	TLD	E3	30B	DP05QD	00	=		
XA332	TLD	E3	28B	(57 )	01		PQ05BQ PQ08C0 53 28B 55 29B	DB05DB BUSS
XA330	TLD	E2	28A	DP06LD	00	=		
XA330	TLD	E2	30A	(60 )	01		PL06BQ UDPL10 64 30A 62 29A	DB06DB BUSS
XA331	TLD	E2	28A	DP06QD	00	=		
XA331	TLD	E2	30A	(60 )	01		PQ08D0 PQ06BQ 64 30A 62 29A	DB06DB BUSS
XA330	TLD	E1	31A	DP07LD	00	=		
XA330	TLD	E1	33A	(66 )	01		UDPL10 PL07BQ 70 33A 68 32A	DB07DB BUSS
XA331	TLD	E1	31A	DP07QD	00	=		
XA331	TLD	E1	33A	(66 )	01		PQ07BQ PQ08D0 70 33A 68 32A	DB07DB BUSS
XA330	TLD	F4	39A	DP08LD	00	=		
XA330	TLD	F4	37A	(80 )	01		UDPL00 PL08BQ 76 37A 78 38A	DB08DB BUSS

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESIGNATOR	FACTOR	COMMENT
XA331	TLD	F4	39A	DP08QD	00	=		
XA331	TLD	F4	37A	(80)	01		PQ08D0 PQ08BQ 76 37A 78 38A	DB08DB BUSS
XA330	TLD	F3	35A	DP09LD	00	=		
XA330	TLD	F3	34B	(69)	01		PL09BQ UDPL00 65 34B 74 35B	DB09DB BUSS
XA331	TLD	F3	35A	DP09QD	00	=		
XA331	TLD	F3	34B	(69)	01		PQ09BQ PQ08D0 65 34B 74 35B	DB09DB BUSS
XA330	TLD	F2	34A	DP10QD	00	=		
XA330	TLD	F2	36B	(72)	01		PQ08E0 PQ10BQ 73 36B 71 36A	DB10DB BUSS
XA330	TLD	F1	37B	DP11QD	00	=		
XA330	TLD	F1	39B	(75)	01		PQ11BQ PQ08E0 79 39B 77 38B	DB11DB BUSS
XA330	TLD	E4	33B	DP12QD	00	=		
XA330	TLD	E4	31B	(63)	01		PQ12BQ PQ08E0 59 31B 61 32B	DB12DB BUSS
XA330	TLD	E3	30B	DP13QD	00	=		
XA330	TLD	E3	28B	(57)	01		PQ13BQ PQ08E0 53 28B 55 29B	DB13DB BUSS
XA329	TLD	E2	28A	DP14QD	00	=		
XA329	TLD	E2	30A	(60)	01		PQ14BQ PQ08E0 64 30A 62 29A	DB14DB BUSS
XA329	TLD	E1	31A	DP15QD	00	=		
XA329	TLD	E1	33A	(66)	01		PQ15BQ PQ08E0 70 33A 68 32A	DB15DB BUSS
XA328	TLD	D4	27B	DP16QD	00	=		
XA328	TLD	D4	25B	(51)	01		PQ08L0 PQ00BQ 47 25B 49 26B	DB16DB BUSS
XA329	TLD	D4	27B	DP16RD	00	=		
XA329	TLD	D4	25B	(51)	01		PT08I0 PQ16BQ 47 25B 49 26B	DB16DB BUSS
XA328	TLD	D3	24B	DP17QD	00	=		
XA328	TLD	D3	22B	(45)	01		PQ08L0 PQ01BQ 41 22B 43 23B	DB17DB BUSS

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESCR. PREFIX	FACTOR	COMMENT
XA333	TLD	F1	37B	DP17RD	00	=		DB17DB BUSS
XA333	TLD	F1	39B	(75)	01		PTDB10 CRO18Q 79 39B 77 38B	
XA328	TLD	D2	21A	DP18QD	00	=		DB18DB BUSS
XA328	TLD	D2	23A	(46)	01		PQ02BQ PQDBL0 50 23A 48 22A	
XA329	TLD	D2	21A	DP18TD	00	=		DB18DB BUSS
XA329	TLD	D2	23A	(46)	01		PT02BQ PTDB10 50 23A 48 22A	
XA328	TLD	D1	24A	DP19QD	00	=		DB19DB BUSS
XA328	TLD	D1	26A	(52)	01		PQDBL0 PQ03BQ 56 26A 54 25A	
XA329	TLD	D1	24A	DP19TD	00	=		DB19DB BUSS
XA329	TLD	D1	26A	(52)	01		PTDB10 PT03BQ 56 26A 54 25A	
XA328	TLD	C4	19B	DP20QD	00	=		DB20DB BUSS
XA328	TLD	C4	17B	(39)	01		PQDBL0 PQ04BQ 35 17B 37 18B	
XA329	TLD	C4	19B	DP20TD	00	=		DB20DB BUSS
XA329	TLD	C4	17B	(39)	01		PTDB10 PT04BQ 35 17B 37 18B	
XA330	TLD	C4	19B	DP20UD	00	=		DB20DB BUSS
XA330	TLD	C4	17B	(39)	01		PTDB20 PT02BQ 35 17B 37 18B	
XA328	TLD	C3	16B	DP21QD	00	=		DB21DB BUSS
XA328	TLD	C3	14B	(33)	01		PQ05BQ PQDBL0 29 14B 31 15B	
XA329	TLD	C3	16B	DP21TD	00	=		DB21DB BUSS
XA329	TLD	C3	14B	(33)	01		PT05BQ PTDB10 29 14B 31 15B	
XA330	TLD	C3	16B	DP21UD	00	=		DB21DB BUSS
XA330	TLD	C3	14B	(33)	01		PTDB20 PT03BQ 29 14B 31 15B	
XA328	TLD	C2	15A	DP22QD	00	=		DB22DB BUSS
XA328	TLD	C2	17A	(30)	01		PQDBM0 PQ06BQ 36 17A 34 16A	

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CONNECTOR	UNIT	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA329	TLD	C2	15A	DP22TD	00	=		
XA329	TLD	C2	17A	(30)	01		PT06BQ PTDB10 36 17A 34 16A	DB22DB BUSS
XA330	TLD	C2	15A	DP22UD	00	=		
XA330	TLD	C2	17A	(30)	01		PTDB20 PT04BQ 36 17A 34 16A	DB22DB BUSS
XA328	TLD	C1	18A	DP23QD	00	=		
XA328	TLD	C1	20A	(38)	01		PQ07BQ PQ08M0 42 20A 40 19A	DB23DB BUSS
XA329	TLD	C1	18A	DP23TD	00	=		
XA329	TLD	C1	20A	(38)	01		PTDB10 PT07BQ 42 20A 40 19A	DB23DB BUSS
XA330	TLD	C1	18A	DP23UD	00	=		
XA330	TLD	C1	20A	(38)	01		PTDB20 PT05BQ 42 20A 40 19A	DB23DB BUSS
XA328	TLD	B4	13B	DP24QD	00	=		
XA328	TLD	B4	11B	(27)	01		PQDBM0 PQ08BQ 23 11B 25 12B	DB24DB BUSS
XA329	TLD	B4	13B	DP24TD	00	=		
XA329	TLD	B4	11B	(27)	01		PTDB00 PT00BQ 23 11B 25 12B	DB24DB BUSS
XA330	TLD	B4	13B	DP24UD	00	=		
XA330	TLD	B4	11B	(27)	01		PTDB20 PT06BQ 23 11B 25 12B	DB24DB BUSS
XA328	TLD	B3	10B	DP25QD	00	=		
XA328	TLD	B3	08B	(21)	01		PQ09BQ PQ08M0 17 08B 19 09B	DB25DB BUSS
XA329	TLD	B3	10B	DP25TD	00	=		
XA329	TLD	B3	08B	(21)	01		PT01BQ PTDB00 17 08B 19 09B	DB25DB BUSS
XA330	TLD	B3	10B	DP25UD	00	=		
XA330	TLD	B3	08B	(21)	01		PT07BQ PTDB20 17 08B 19 09B	DB25DB BUSS
XA330	TLD	B2	09A	DP26LD	00	=		
XA330	TLD	B2	11A	(14)	01		PLDBT0 PLO2BQ 20 11A 18 10A	DB26DB BUSS

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA331	TLD	B2	09A	DP26QD	00	=		DB26DB BUSS
XA331	TLD	B2	11A	(14)	01		PQ08N0 PQ10BQ 20 11A 18 10A	
XA332	TLD	B2	09A	DP26TD	00	=		DB26DB BUSS
XA332	TLD	B2	11A	(14)	01		PT0830 PT02BQ 20 11A 18 10A	
XA330	TLD	B1	12A	DP27LD	00	=		DB27DB BUSS
XA330	TLD	B1	14A	(22)	01		PL03BQ PL08T0 26 14A 24 13A	
XA331	TLD	B1	12A	DP27QD	00	=		DB27DB BUSS
XA331	TLD	B1	14A	(22)	01		PQ11BQ PQ08N0 26 14A 24 13A	
XA332	TLD	B1	12A	DP27TD	00	=		DB27DB BUSS
XA332	TLD	B1	14A	(22)	01		PT03BQ PT0830 26 14A 24 13A	
XA331	TLD	A4	07B	DP28LD	00	=		DB28DB BUSS
XA331	TLD	A4	05B	(15)	01		PL04BQ PL08T0 11 05B 13 06B	
XA332	TLD	A4	07B	DP28QD	00	=		DB28DB BUSS
XA332	TLD	A4	05B	(15)	01		PQ08N0 PQ12BQ 11 05B 13 06B	
XA333	TLD	A4	07B	DP28TD	00	=		DB28DB BUSS
XA333	TLD	A4	05B	(15)	01		PT0830 PT04BQ 11 05B 13 06B	
XA331	TLD	A3	04B	DP29LD	00	=		DB29DB BUSS
XA331	TLD	A3	02A	(09)	01		PL08T0 PL05BQ 03 02A 07 03A	
XA332	TLD	A3	04B	DP29QD	00	=		DB29DB BUSS
XA332	TLD	A3	02A	(09)	01		PQ08N0 PQ13BQ 03 02A 07 03A	
XA333	TLD	A3	04B	DP29TD	00	=		DB29DB BUSS
XA333	TLD	A3	02A	(09)	01		PT0830 PT05BQ 03 02A 07 03A	
XA331	TLD	A2	02B	DP30LD	00	=		DB30DB BUSS
XA331	TLD	A2	04A	(01)	01		PL06BQ PL08T0 04 04A 05 03B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA332	TLD	A2	02B	DP30QD	00	=		
XA332	TLD	A2	04A	(01)	01		PQ148Q PQDBNO 04 04A 05 03B	DB30DB BUSS
XA333	TLD	A2	02B	DP30TD	00	=		
XA333	TLD	A2	04A	(01)	01		PT068Q PTDB30 04 04A 05 03B	DB30DB BUSS
XA331	TLD	A1	05A	DP31LD	00	=		
XA331	TLD	A1	07A	(06)	01		PL078Q PLOBT0 10 07A 08 06A	DB31DB BUSS
XA332	TLD	A1	05A	DP31QD	00	=		
XA332	TLD	A1	07A	(06)	01		PQ158Q PQDBNO 10 07A 08 06A	DB31DB BUSS
XA333	TLD	A1	05A	DP31TD	00	=		
XA333	TLD	A1	07A	(06)	01		PT078Q PTDB30 10 07A 08 06A	DB31DB BUSS
XA429	TD4	D1	25B	DTTDCA	00	=		
XA429	TD4	D1	26A	(47)	01		CMT48Q CMT18P CMT28P CMT38P 56 26A 54 25A 52 24A 49 26B	IQU DATA TO BUS CNT1 - A
XA115	TQ2	F1	37B	EBCPSA	00	=		
XA115	TQ2	F1	39B	(75)	01		CLOCLB EDC2C0 79 39B 77 38B	BOOTSTRAP STATUS CLOCK - A
				EBSCBI	00	=		
XA117	TDD	A1	06A	( )	01		EBSC90 08 06A	
				EBSCBN	00	=		
XA117	TDD	AN	07A	( )	01		EBCPSA 10 07A	
XA117	TDD	AP	05B	EBSCBP	00	=		
XA117	TDD	AP	05A	(11)	01		J4RES0 06 05A	
XA117	TDD	AQ	06B	EBSCBQ	00	=		
XA117	TDD	AQ	07B	(13)	01		JOIG8D4 15 07B	BOOTSTRAP CPU STATUS - PST
XA115	TQ2	A1	05A	EBSCBA	00	=		
XA115	TQ2	A1	07A	(06)	01		ED188Q ED181A 10 07A 08 06A	RST BOOTSTRAP CPU STATUS-A

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
			AND	OR					
XA114	TQ2	A1	05A		EBSC9A	00	=		REC. BOOTSTRAP CPU STATUS-A
XA114	TQ2	A1	07A		(06)	01		EBSC8A EBSCBQ 10 07A 08 06A	
XA115	TQ2	A2	02B		EBSC90	00	=		REC. BOOTSTRAP CPU STATUS-0
XA115	TQ2	A2	04A		(01)	01		EBSC9A SPA011 04 04A 05 03B	
XA117	TDD	B1	03B		EBSIBI	00	=		
XA117	TDD	B1	03B		( )	01		EBSI90 05 03B	
XA117	TDD	BN	02B		EBSIBN	00	=		
XA117	TDD	BN	02B		( )	01		EBCPSA 01 02B	
XA117	TDD	BP	04B		EBSIBP	00	=		BOOTSTRAP IOU STATUS - CLR
XA117	TDD	BP	04A		(09)	01		EBSIPA 04 04A	
XA117	TDD	BQ	03A		EBSIBQ	00	=		BOOTSTRAP IOU STATUS - PST
XA117	TDD	BQ	02A		(07)	01		J4IG804 03 02A	
XA115	TQ2	A3	04B		EBSIPA	00	=		CLEAR IOU BOOTSTRAP STATUS-A
XA115	TQ2	A3	02A		(09)	01		EBSIPO SPA011 03 02A 07 03A	
XA114	TQ2	A2	02B		EBSIPO	00	=		CLEAR IOU BOOTSTRAP STATUS-0
XA114	TQ2	A2	04A		(01)	01		J4RES0 JS77A04 04 04A 05 03B	
XA114	TQ2	A3	04B		EBSI90	00	=		REC. BOOTSTRAP IOU STATUS-0
XA114	TQ2	A3	02A		(09)	01		SPA010 EBSIBP 03 02A 07 03A	
XA112	TD4	A1	05B		ECDBCA	00	=		DTR ALL ONES TO TB RCVRS
XA112	TD4	A1	07A		(11)	01		CMD3BQ CMD1BP CMD2BP CMD4BQ 10 07A 08 06A 06 05A 13 06B	
XA114	TQ2	A4	07B		ECDBCO	00	=		
XA114	TQ2	A4	05B		(15)	01		ECDBCA SPA010 11 05B 13 06B	
XA115	TQ2	B2	09A		ECDBDB	00	=		1/2 OF ECDBDB
XA115	TQ2	B2	09A		( )	03	+	ECDBGA 14 09A	
XA115	TQ2	B3	10B		( )	04	+	ECDBHA 21 10B	1/2 OF ECDBDB

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XA115	TQ2	B4	13B	ECDBEA	00	=		EDBDB BUSS
XA115	TQ2	B4	11B	(27)	01		ECDBCO SPA011 23 11B 25 12B	
XA115	TQ2	B1	12A	ECDBFA	00	=		EDBDB BUSS
XA115	TQ2	B1	14A	(22)	01		SPA011 ECDBCO 26 14A 24 13A	
XA115	TQ2	B2	09A	ECDBGA	00	=		ECDBDB BUSS
XA115	TQ2	B2	11A	(14)	01		ECDBCO SPA011 20 11A 18 10A	
XA115	TQ2	B3	10B	ECDBHA	00	=		ECDBDB BUSS
XA115	TQ2	B3	08B	(21)	01		ECDBCO SPA011 17 08B 19 09B	
XA112	TD4	A2	04B	EDBUNA	00	=		DB0031 ALL ONES
XA112	TD4	A2	04A	(09)	01		EDULLO EDLLUO EDLUUO EDUUUO 04 04A 05 03B 01 02B 07 03A	
XA108	TT3	A2	03A	EDBU8A	00	=		DB0831 ALL ONES
XA108	TT3	A2	03B	(07)	01		EDLLUO EDLUUO EDULUO 05 03B 01 02B 03 02A	
XA112	TD4	B1	11B	EDBZRA	00	=		DB0031 ALL ZERO
XA112	TD4	B1	14A	(23)	01		EDLLZO EDULZO EDLUZO EDUZO 26 14A 24 13A 22 12A 25 12B	
XA112	TD4	C1	17B	EDBZ8A	00	=		DB0831 ALL ZERO
XA112	TD4	C1	20A	(35)	01		SPA007 EDULZO EDLUZO EDLLZO 42 20A 40 19A 38 18A 37 18B	
				EDPCB	00	=		
XA115	TQ2	F2	34A	( )	01		EDCPDA 72 34A	DIAGNOSE RGSTR CLOCK
XA115	TQ2	F3	35A	( )	02	+	EDCPEA 69 35A	DIAGNOSE RGSTR CLOCK
XA115	TQ2	F4	39A	( )	03	+	EDCPFA 80 39A	DIAGNOSE RGSTR CLOCK
XA115	TQ2	F2	34A	EDCPDA	00	=		EDPCB BUSS
XA115	TQ2	F2	36B	(72)	01		EDCP10 CLOCLB 73 36B 71 36A	
XA115	TQ2	F3	35A	EDCPEA	00	=		EDPCB BUSS
XA115	TQ2	F3	34B	(69)	01		CLOCLB EDCP10 65 34B 74 35B	



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XA115	TQ2	F4	39A	EDCPFA	00	=		
XA115	TQ2	F4	37A	(80)	01		EDCP10 CLOC1B 76 37A 78 38A	EDCPCB BUSS
XA111	TQ2	A3	04B	EDCPSA	00	=		
XA111	TQ2	A3	02A	(09)	01		EDC3C0 CLOC1B 03 02A 07 03A	DIAGNOSE STATUS CLOCK - A
XA114	TQ2	B2	09A	EDCP10	00	=		
XA114	TQ2	B2	11A	(14)	01		EDC2CA EEDYCA 20 11A 18 10A	DIAGNOSE RGSTR CLK CNTL - 0
XA103	TS8	A1	05B	EDC2CA	00	=		
XA103	TS8	A1	07A	(11)	01		CC11Q0 EDC3CA E073C0 CE0100 PLPR20 ES0TBP SPA002 SPA003 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	DIAGNOSE OPTION 2 CONTROL-A
XA111	TQ2	B4	13B	EDC2C0	00	=		
XA111	TQ2	B4	11B	(27)	01		SPA007 EDC2CA 23 11B 25 12B	DIAGNOSE OPTION 2 CONTROL-0
XA115	TQ2	A4	07B	EDC2D0	00	=		
XA115	TQ2	A4	05B	(15)	01		SPA009 EDC2CA 11 05B 13 06B	
XA110	TS8	B1	11B	EDC3CA	00	=		
XA110	TS8	B1	14A	(23)	01		CC12Q0 CE0100 CC11Q0 SPA009 SPA007 ES0TBP PLPR20 E073C0 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	DIAGNOSE OPTION 3 CONTROL-A
XA114	TQ2	B3	10B	EDC3C0	00	=		
XA114	TQ2	B3	08B	(21)	01		SPA010 EDC3CA 17 08B 19 09B	DIAGNOSE OPTION 3 CONTROL-0
				EDDBDB	00	=		
XA115	TQ2	B4	13B	( )	01		ECDBEA 27 13B	BUSS ALL 1'S TO TB
XA115	TQ2	B1	12A	( )	02	+	ECDBFA 22 12A	1/2 OF ECDBDB
XA135	TQ2	C3	16B	EDGND	00	=		
XA135	TQ2	C3	14B	(33)	01		SPI011 SPI012 29 14B 31 15B	STROBE FOR F/F DRV
XA115	TQ2	C1	18A	EDLLU0	00	=		
XA115	TQ2	C1	20A	(38)	01		SPA012 DELLUA 42 20A 40 19A	DB2431 ALL ONES
XA115	TQ2	C2	15A	EDLLZ0	00	=		
XA115	TQ2	C2	17A	(30)	01		DELLZA SPA012 36 17A 34 16A	DB2431 ALL ZERO

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XA115	TQ2	C3	16B	EDLUUO	00 =		
XA115	TQ2	C3	14B	(33)	01	DELUUA SPA011 29 14B 31 15B	DB1623 ALL ONES
XA115	TQ2	C4	19B	EDLUZO	00 =		
XA115	TQ2	C4	17B	(39)	01	SPA012 DELUZA 35 17B 37 18B	DB1623 ALL ZERO
XA116	TDD	A1	06A	EDSCBI	00 =		
XA116	TDD	AN	07A	( )	01	MD30BQ 08 06A	
XA116	TDD	AP	05B	EDSCBN	00 =		
XA116	TDD	AP	05A	(11)	01	EDCPSA 10 07A	
XA116	TDD	AQ	06B	EDSCBP	00 =		
XA116	TDD	AQ	07B	(13)	01	J4RESO 06 05A	
XA116	TDD	AR	06B	EDSCBQ	00 =		
XA116	TDD	AR	07B	(13)	01	SPA012 15 07B	DIAGNOSE CPU STATUS - PST
XA121	TSB	A1	05B	EDSD0A	00 =		
XA121	TSB	A1	02B	(11)	01	ED10BP ED11BP ED12BP ED13BP ED14BP ED15BP ED16BP JS77A0 01 02B 04 04A 05 03B 06 05A 07 03A 08 06A 10 07A 13 06B	
XA116	TDD	BI	03B	EDSIBI	00 =		
XA116	TDD	BI	03B	( )	01	MD31BQ 05 03B	
XA116	TDD	BN	02B	EDSIBN	00 =		
XA116	TDD	BN	02B	( )	01	EDCPSA 01 02B	
XA116	TDD	BP	04B	EDSIBP	00 =		
XA116	TDD	BP	04A	(09)	01	J4RESO 04 04A	
XA116	TDD	BQ	03A	EDSIBQ	00 =		
XA116	TDD	BQ	02A	(07)	01	SPA012 03 02A	DIAGNOSE TOU STATUS - PST
XA114	TQ2	C1	18A	EDULUO	00 =		
XA114	TQ2	C1	20A	(38)	01	DEULUA SPA010 42 20A 40 19A	DB0815 ALL ONES

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
XA114	TQ2	C2	15A	EDULZO	00	=		
XA114	TQ2	C2	17A	(30)	01		DEULZA SPA010 36 17A 34 16A	DB0815 ALL ZERO
XA114	TQ2	C3	16B	EDUUUO	00	=		
XA114	TQ2	C3	14B	(33)	01		SPA010 DEUUUA 29 14B 31 15B	DB0007 ALL ONES
XA114	TQ2	C4	19B	EDUUZO	00	=		
XA114	TQ2	C4	17B	(39)	01		SPA010 DEUUZA 35 17B 37 18B	DB0007 ALL ZERO
				ED01BI	00	=		
XA117	TDD	CI	13A	( )	01		ED0190 24 13A	
				ED01BN	00	=		
XA117	TDD	CN	14A	( )	01		EDCPCB 26 14A	DIAGNOSE RGSTR CLOCK BUS
XA117	TDD	CP	11B	ED01BP	00	=		
XA117	TDD	CP	12A	(23)	01		J4RESO 22 12A	
XA117	TDD	CQ	12B	ED01BQ	00	=		
XA117	TDD	CQ	13B	(25)	01		JDTG8D4 27 13B	ED 01 - PRESET
XA114	TQ2	B4	13B	ED011A	00	=		
XA114	TQ2	B4	11B	(27)	01		MD16BQ EDC2C0 23 11B 25 12B	MD 16 TO ED 01
XA114	TQ2	D1	24A	ED012A	00	=		
XA114	TQ2	D1	26A	(52)	01		CS00BQ EEDTEO 56 26A 54 25A	CPU STATE CTR BIT 00 TO ED01
XA112	TD4	C2	16B	ED0190	00	=		
XA112	TD4	C2	17A	(33)	01		ED012A SPA00B ED011A SPA007 36 17A 34 16A 30 15A 31 15B	ED 01 INPUT DATA GATE
				ED02BI	00	=		
XA117	TDD	O1	10A	( )	01		ED0290 18 10A	
				ED02BN	00	=		
XA117	TDD	DN	09A	( )	01		EDCPCB 14 09A	DIAGNOSE RGSTR CLOCK BUS

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA117	TDD	DP	10B	ED028P	00	=		
XA117	TDD	DP	11A	(21)	01		J4RES0 20 11A	
XA117	TDD	DQ	09B	ED028Q	00	=		ED 02 - PRESET
XA117	TDD	DQ	08B	(19)	01		J0IG8D4 17 08B	
XA115	TQ2	D1	24A	ED021A	00	=		MD 17 TO ED 02
XA115	TQ2	D1	26A	(52)	01		EDC2C0 MD17BQ 56 26A 54 25A	
XA115	TQ2	D2	21A	ED022A	00	=		CPU STATE CIR BIT 01 TO ED02
XA115	TQ2	D2	23A	(46)	01		CS01Q0 EEDTE0 50 23A 48 22A	
XA112	TD4	D1	25B	ED0290	00	=		ED 02 INPUT DATA GATE
XA112	TD4	D1	26A	(47)	01		SPA009 ED021A ED022A SPA008 56 26A 54 25A 52 24A 49 26B	
				ED03BI	00	=		
XA116	TDD	C1	13A	( )	01		ED0390 24 13A	
				ED03BN	00	=		
XA116	TDD	CN	14A	( )	01		EDCPCB 26 14A	DIAGNOSE RGSTR CLOCK BUS
XA116	TDD	CP	11B	ED03BP	00	=		
XA116	TDD	CP	12A	(23)	01		J4RES0 22 12A	
XA116	TDD	CQ	12B	ED03BQ	00	=		ED 03 - PRESET
XA116	TDD	CQ	13B	(25)	01		J0IG8D4 27 13B	
XA114	TQ2	D2	21A	ED031A	00	=		MD 18 TO ED 03
XA114	TQ2	D2	23A	(46)	01		EDC2C0 MD18BQ 50 23A 48 22A	
XA114	TQ2	D3	24B	ED032A	00	=		CPU STATE CIR BIT 02 TO ED03
XA114	TQ2	D3	22B	(45)	01		EEDTE0 CS02Q0 41 22B 43 23B	
XA112	TD4	D2	24B	ED0390	00	=		ED 03 INPUT DATA GATE
XA112	TD4	D2	23A	(45)	01		SPA007 ED032A ED031A SPA008 50 23A 48 22A 46 21A 43 23B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
				ED04BI	00 =			
XA116	TDD	DI	10A	( )	01		ED0490 18 10A	
				ED04BN	00 =			
XA116	TDD	DN	09A	( )	01		EDCPCB 14 09A	DIAGNOSE RGSTR CLOCK BUS
XA116	TDD	DP	10B		00 =			
XA116	TDD	DP	11A	(21 )	01		J4RESO 20 11A	
XA116	TDD	DQ	09B		00 =			ED 04 - PRESET
XA116	TDD	DQ	08B	(19 )	01		JDIG8D4 17 08B	
XA115	TQ2	D3	24B		00 =			MD 19 TO ED 04
XA115	TQ2	D3	22B	(45 )	01		MD19BQ EDC2C0 41 22B 43 23B	
XA115	TQ2	D4	27B		00 =			CPU STATE CTR BIT 03 TO ED04
XA115	TQ2	D4	25B	(51 )	01		EEDTEO C503Q0 47 25B 49 26B	
XA112	TD4	E1	31B		00 =			ED 04 INPUT DATA GATE
XA112	TD4	E1	33A	(59 )	01		SPA009 ED042A ED041A SPA008 70 33A 68 32A 66 31A 61 32B	
				ED05BI	00 =			
XA117	TDD	E1	19A	( )	01		ED0590 40 19A	
				ED05BN	00 =			
XA117	TDD	EN	20A	( )	01		EDCPCB 42 20A	DIAGNOSE RGSTR CLOCK BUS
XA117	TDD	EP	17B		00 =			
XA117	TDD	EP	18A	(35 )	01		J4RESO 38 18A	
XA117	TDD	EQ	18B		00 =			ED 05 - PRESET
XA117	TDD	EQ	19B	(37 )	01		JDIG8D4 39 19B	
XA114	TQ2	D4	27B		00 =			MD 20 TO ED 05
XA114	TQ2	D4	25B	(51 )	01		MD20BQ EDC2C0 47 25B 49 26B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA114	TQ2	E1	31A	ED052A	00	=		CPU STATE CTR BIT 04 TO ED05
XA114	TQ2	E1	33A	(66)	01		CS0400 EEDTE0 70 33A 68 32A	
XA112	TD4	E2	30B	ED0590	00	=		ED 05 INPUT DATA GATE
XA112	TD4	E2	30A	(57)	01		ED052A SPA008 ED051A SPA009 64 30A 62 29A 60 28A 55 29B	
				ED06BI	00	=		
XA117	TDD	FI	16A	( )	01		ED0690 34 16A	
				ED06BN	00	=		
XA117	TDD	FN	15A	( )	01		EDCPCB 30 15A	DIAGNOSE RGSTR CLOCK BUS
XA117	TDD	FP	16B	ED06BP	00	=		
XA117	TDD	FP	17A	(33)	01		J4RES0 36 17A	
XA117	TDD	FQ	15B	ED06BQ	00	=		ED 06 - PRESET
XA117	TDD	FQ	14B	(31)	01		JDIG8D4 29 14B	
XA115	TQ2	E1	31A	ED061A	00	=		MD 21 IC ED 06
XA115	TQ2	E1	33A	(66)	01		EDC2C0 MD21BQ 70 33A 68 32A	
XA115	TQ2	E2	28A	ED062A	00	=		CPU STATE CTR BIT 05 TO ED06
XA115	TQ2	E2	30A	(60)	01		CS0500 EEDTE0 64 30A 62 29A	
XA112	TD4	F1	37A	ED0690	00	=		ED 06 INPUT DATA GATE
XA112	TD4	F1	39B	(76)	01		SPA009 ED061A ED062A SPA008 79 39B 77 38B 75 37B 78 38A	
				ED07BI	00	=		
XA116	TDD	EI	19A	( )	01		ED0790 40 19A	
				ED07BN	00	=		
XA116	TDD	EN	20A	( )	01		EDCPCB 42 20A	DIAGNOSE RGSTR CLOCK BUS
XA116	TDD	EP	17B	ED07BP	00	=		
XA116	TDD	EP	18A	(35)	01		J4RES0 38 18A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA116	TDD	EQ	18B	ED07BQ	00	=		ED 07 - PRESET
XA116	TDD	EQ	19B	(37)	01		JDIG8D4 39 19B	
XA115	TQ2	E3	30B	ED071A	00	=		MD 22 TO ED 07
XA115	TQ2	E3	28B	(57)	01		MD22BQ EDC2C0 53 28B 55 29B	
XA115	TQ2	E4	33B	ED072A	00	=		CPU STATE CTR BIT 06 TO ED07
XA115	TQ2	E4	31B	(63)	01		EEDTE0 CS06Q0 59 31B 61 32B	
XA112	TD4	F2	35A	ED0790	00	=		ED 07 INPUT DATA GATE
XA112	TD4	F2	36B	(69)	01		SPA008 ED072A ED071A SPA009 73 36B 71 36A 72 34A 74 35B	
				ED0881	00	=		
XA116	TDD	F1	16A	( )	01		ED0890 34 16A	
				ED088N	00	=		
XA116	TDD	FN	15A	( )	01		EDCPCB 30 15A	DIAGNOSE RGSTR CLOCK BUS
XA116	TDD	FP	16B	ED088P	00	=		
XA116	TDD	FP	17A	(33)	01		J4RES0 36 17A	
XA116	TDD	FQ	15B	ED088Q	00	=		ED 08 - PRESET
XA116	TDD	FQ	14B	(31)	01		JDIG8D4 29 14B	
XA114	TQ2	E2	28A	ED081A	00	=		MD 23 TO ED 08
XA114	TQ2	E2	30A	(60)	01		EDC2C0 MD23BQ 64 30A 62 29A	
XA114	TQ2	E3	30B	ED082A	00	=		CPU ITER CTR BIT 04 TO ED08
XA114	TQ2	E3	28B	(57)	01		EEDTE0 CK04BQ 53 28B 55 29B	
XA109	TD4	F1	37A	ED0890	00	=		ED 08 INPUT DATA GATE
XA109	TD4	F1	39B	(76)	01		SPA006 ED082A ED081A SPA007 79 39B 77 38B 75 37B 78 38A	
				ED098I	00	=		
XA117	TDD	G1	25A	( )	01		ED0990 54 25A	

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CONNECTOR	UNIT ASSEMBLY NAME	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			ED09BN	00 =			
XA117	TDD GN	26A	( )	01		EDCPCB 56 26A	DIAGNOSE RGSTR CLOCK BUS
XA117	TDD GP	25B	ED09BP	00 =			
XA117	TDD GP	24A	(47 )	01		J4RESD 52 24A	
XA117	TDD GQ	26B	ED09BQ	00 =			ED 09 - PRESET
XA117	TDD GQ	27B	(49 )	01		JD1G8D4 51 27B	
XA114	TQ2 E4	33B	ED091A	00 =			MD 24 ID ED 09
XA114	TQ2 E4	31B	(63 )	01		MD24BQ EDC2C0 59 31B 61 32B	
XA114	TQ2 F1	37B	ED092A	00 =			CPU ITER CTR BIT 05 TO ED09
XA114	TQ2 F1	39B	(75 )	01		CK05Q0 EEDTC0 79 39B 77 38B	
XA109	TD4 F2	35A	ED0990	00 =			ED 09 INPUT DATA GATE
XA109	TD4 F2	36B	(69 )	01		ED092A SPA005 ED091A SPA006 73 36B 71 36A 72 34A 74 35B	
			ED10BI	00 =			
XA117	TDD HI	22A	( )	01		ED1090 48 22A	
			ED10BN	00 =			
XA117	TDD HN	21A	( )	01		EDCPCB 46 21A	DIAGNOSE RGSTR CLOCK BUS
XA117	TDD HP	24B	ED10BP	00 =			
XA117	TDD HP	23A	(45 )	01		ED10PA 50 23A	
XA117	TDD HQ	23B	ED10BQ	00 =			ED 10 - PRESET
XA117	TDD HQ	22B	(43 )	01		JD1G8D4 41 22B	
XA114	TQ2 F2	34A	ED10PA	00 =			ED 10 CLEAR GATE - A
XA114	TQ2 F2	36B	(72 )	01		SPA011 ED10P0 73 36B 71 36A	
XA113	TQ2 F2	34A	ED10P0	00 =			ED 10 CLEAR GATE - 0
XA113	TQ2 F2	36B	(72 )	01		J4RESD JD1G1D4 73 36B 71 36A	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA111	TQ2	E1	31A	ED101A	00	=		MD 25 TO ED 10
XA111	TQ2	E1	33A	(66)	01		EDC2D0 MD25BQ 70 33A 68 32A	
XA111	TQ2	E2	28A	ED102A	00	=		CPU STATE CIR BIT 07 TO ED10
XA111	TQ2	E2	30A	(60)	01		CS07BP EEDTCO 64 30A 62 29A	
XA109	TD4	E1	31B	ED1090	00	=		ED 10 INPUT DATA GATE
XA109	TD4	E1	33A	(59)	01		SPA006 SPA005 ED101A ED102A 70 33A 68 32A 66 31A 61 32B	
XA116	TDD	G1	25A	ED11BI	00	=		
XA116	TDD	G1		( )	01		ED1190 54 25A	
XA116	TDD	GN	26A	ED11BN	00	=		DIAGNOSE RGSTR CLOCK BUS
XA116	TDD	GN		( )	01		EDCPCB 56 26A	
XA116	TDD	GP	25B	ED11BP	00	=		
XA116	TDD	GP	24A	(47)	01		ED11PA 52 24A	
XA116	TDD	GQ	26B	ED11BQ	00	=		ED 11 - PRESET
XA116	TDD	GQ	27B	(49)	01		JDIG8D4 51 27B	
XA114	TQ2	F3	35A	ED11PA	00	=		ED 11 CLEAR GATE - A
XA114	TQ2	F3	34B	(69)	01		SPA011 ED11P0 65 34B 74 35B	
XA113	TQ2	F3	35A	ED11P0	00	=		ED 11 CLEAR GATE - 0
XA113	TQ2	F3	34B	(69)	01		JDIG2D4 J4RES0 65 34B 74 35B	
XA113	TQ2	E1	31A	ED111A	00	=		MD 26 TO ED 11
XA113	TQ2	E1	33A	(66)	01		MD26BQ EDC2D0 70 33A 68 32A	
XA113	TQ2	E2	28A	ED112A	00	=		AUTO TEST TO ED11
XA113	TQ2	E2	30A	(60)	01		EEDTCO ES07BQ 64 30A 62 29A	
XA109	TD4	E2	30B	ED1190	00	=		ED 11 INPUT DATA GATE
XA109	TD4	E2	30A	(57)	01		ED111A SPA006 ED112A SPA005 64 30A 62 29A 60 28A 55 29B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA116	TDD	HI	22A	ED12BI ( )	00 = 01		ED1290 48 22A	
XA116	TDD	HN	21A	ED12BN ( )	00 = 01		EDCPCB 46 21A	DIAGNOSE RGSTR CLOCK BUS
XA116	TDD	HP	24B	ED12BP (45 )	00 = 01		ED12PA 50 23A	
XA116	TDD	HQ	23B	ED12BQ (43 )	00 = 01		ED 12 - PRESET J0IG8D4 41 22B	
XA114	TQ2	F4	39A	ED12PA (80 )	00 = 01		ED 12 CLEAR GATE - A SPA011 ED12P0 76 37A 78 38A	
XA113	TQ2	F4	39A	ED12P0 (80 )	00 = 01		ED 12 CLEAR GATE - 0 J0IG3D4 J4RES0 76 37A 78 38A	
XA111	TQ2	D1	24A	ED121A (52 )	00 = 01		MD 27 IG ED 12 MD27BQ EDC2D0 56 26A 54 25A	
XA111	TQ2	D2	21A	ED122A (46 )	00 = 01		DIAGNOSE (073) EEDTCO EEDIGO 50 23A 48 22A	
XA109	TD4	D1	25B	ED1290 (47 )	00 = 01		ED 12 INPUT DATA GATE SPA005 SPA006 ED121A ED122A 56 26A 54 25A 52 24A 49 26B	
XA117	TDD	JI	32A	ED13BI ( )	00 = 01		ED1390 68 32A	
XA117	TDD	JN	33A	ED13BN ( )	00 = 01		EDCPCB 70 33A	DIAGNOSE RGSTR CLOCK BUS
XA117	TDD	JP	31B	ED13BP (59 )	00 = 01		ED13PA 66 31A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA117	TDD	JQ	32B	ED138Q	00	=		ED 13 - PRESET
XA117	TDD	JQ	33B	(61)	01		JDYG8D4 63 33B	
XA113	TQ2	E3	30B	ED13PA	00	=		ED 13 CLEAR GATE - A
XA113	TQ2	E3	28B	(57)	01		SPA010 ED13P0 53 28B 55 29B	
XA111	TQ2	E3	30B	ED13P0	00	=		ED 13 CLEAR GATE - 0
XA111	TQ2	E3	28B	(57)	01		J4RES0 JDYG4D4 53 28B 55 29B	
XA113	TQ2	D1	24A	ED131A	00	=		MD 28 TO ED 13
XA113	TQ2	D1	26A	(52)	01		EDC2D0 MD28BQ 56 26A 54 25A	
XA113	TQ2	D2	21A	ED133A	00	=		RECIRCULATE ED 13
XA113	TQ2	D2	23A	(46)	01		ED138Q EDC2CA 50 23A 48 22A	
XA109	TD4	D2	24B	ED1390	00	=		ED 13 INPUT DATA GATE
XA109	TD4	D2	23A	(45)	01		ED131A SPA005 ED133A SPA006 50 23A 48 22A 46 21A 43 23B	
XA117	TDD	KI	29A	ED148I	00	=		
XA117	TDD	KI		( )	01		EDI490 62 29A	
XA117	TDD	KN	28A	ED148N	00	=		DIAGNOSE RGSTR CLOCK BUS
XA117	TDD	KN		( )	01		EDCPCB 60 28A	
XA117	TDD	KP	30B	ED148P	00	=		
XA117	TDD	KP	30A	(57)	01		EDI4PA 64 30A	
XA117	TDD	KQ	29B	ED148Q	00	=		ED 14 - PRESET
XA117	TDD	KQ	28B	(55)	01		JDYG8D4 53 28B	
XA113	TQ2	E4	33B	ED14PA	00	=		ED 14 CLEAR GATE - A
XA113	TQ2	E4	31B	(63)	01		SPA010 ED14P0 59 31B 61 32B	
XA111	TQ2	E4	33B	ED14P0	00	=		ED 14 CLEAR GATE - 0
XA111	TQ2	E4	31B	(63)	01		J4RES0 JDYG5D4 59 31B 61 32B	

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CONNECTOR	CRYP- TYP	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG- NATOR	FACTOR	COMMENT
XA111	TQ2	C1	18A	ED141A	00	=		
XA111	TQ2	C1	20A	(38)	01		EDC2D0 MD29BQ 42 20A 40 19A	MD 29 TO ED 14
XA111	TQ2	C2	15A	ED143A	00	=		
XA111	TQ2	C2	17A	(30)	01		ED148Q EDC2CA 36 17A 34 16A	RECIRCULATE ED 14
XA109	TD4	C1	17B	ED1490	00	=		
XA109	TD4	C1	20A	(35)	01		SPA005 SPA006 ED141A ED143A 42 20A 40 19A 38 18A 37 18B	ED 14 INPUT DATA GATE
				ED158I	00	=		
XA116	TDD	J1	32A	( )	01		ED1590 68 32A	
				ED158N	00	=		
XA116	TDD	JN	33A	( )	01		EDCPCB 70 33A	DIAGNOSE RGSTR CLOCK B US
XA116	TDD	JP	31B	ED158P	00	=		
XA116	TDD	JP	31A	(59)	01		ED15PA 66 31A	
XA116	TDD	JQ	32B	ED158Q	00	=		
XA116	TDD	JQ	33B	(61)	01		JDIG8D4 63 33B	ED 15 - PRESET
XA113	TQ2	D3	24B	ED15PA	00	=		
XA113	TQ2	D3	22B	(45)	01		SPA009 ED15P0 41 22B 43 23B	ED 15 CLEAR GATE - A
XA111	TQ2	D3	24B	ED15P0	00	=		
XA111	TQ2	D3	22B	(45)	01		JDIG6D4 J4RESD 41 22B 43 23B	ED 15 CLEAR GATE - 0
XA111	TQ2	C3	16B	ED151A	00	=		
XA111	TQ2	C3	14B	(33)	01		EDC2D0 MD30BQ 29 14B 31 15B	MD 30 TO ED 15
XA111	TQ2	C4	19B	ED153A	00	=		
XA111	TQ2	C4	17B	(39)	01		EDC2CA ED158Q 35 17B 37 18B	RECIRCULATE ED 15
XA109	TD4	C2	16B	ED1590	00	=		
XA109	TD4	C2	17A	(33)	01		ED153A ED151A SPA006 SPA005 36 17A 34 16A 30 15A 31 15B	ED 15 INPUT DATA GATE

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ED16BI

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
				ED16BI	00	=		
XA116	TDD	KI	29A	( )	01		EDI690 62 29A	
				ED16BN	00	=		
XA116	TDD	KN	28A	( )	01		EDCPCB 60 28A	DIAGNOSE RGSTR CLOCK BUS
XA116	TDD	KP	30B	ED168P	00	=		
XA116	TDD	KP	30A	(57 )	01		EDI6PA 64 30A	
XA116	TDD	KQ	29B	ED168Q	00	=		ED 16 - PRESET
XA116	TDD	KQ	28B	(55 )	01		J0Y68D4 53 28B	
XA113	TQ2	D4	27B	ED16PA	00	=		ED 16 CLEAR GATE - A
XA113	TQ2	D4	25B	(51 )	01		SPA009 EDI6P0 47 25B 49 26B	
XA111	TQ2	D4	27B	ED16P0	00	=		ED 16 CLEAR GATE - 0
XA111	TQ2	D4	25B	(51 )	01		J4RES0 JS77AD4 47 25B 49 26B	
XA107	TQ2	B1	12A	ED161A	00	=		MD 31 TO ED 16
XA107	TQ2	B1	14A	(22 )	01		EDC2D0 MD31B0 26 14A 24 13A	
XA107	TQ2	B2	09A	ED163A	00	=		RECIRCULATE ED 16
XA107	TQ2	B2	11A	(14 )	01		ED168Q EDC2CA 20 11A 18 10A	
XA109	TD4	B1	11B	ED1690	00	=		ED 16 INPUT DATA GATE - 0
XA109	TD4	B1	14A	(23 )	01		SPA005 SPA006 ED163A ED161A 26 14A 24 13A 22 12A 25 12B	
				ED17BI	00	=		
XA116	TDD	LI	38B	( )	01		ED1790 77 38B	
				ED17BN	00	=		
XA116	TDD	LN	39B	( )	01		EDCPCB 79 39B	DIAGNOSE RGSTR CLOCK BUS
XA116	TDD	LP	37A	ED178P	00	=		
XA116	TDD	LP	37B	(76 )	01		J4RES0 75 37B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA116	TDD	LQ	38A	ED17BQ	00	=		
XA116	TDD	LQ	39A	(78)	01		JDIG8D4 80 39A	ED 17 - PRESET
XA111	TQ2	B3	10B	ED171A	00	=		
XA111	TQ2	B3	08B	(21)	01		CC09Q0 EDC2D0 17 08B 19 09B	CC 09 TO ED 17
XA108	TT3	A3	07B	ED173A	00	=		
XA108	TT3	A3	04B	(15)	01		ESOTXA ED17BQ EDC2CA 09 04B 11 05B 13 06B	RECIRCULATE ED 17
XA109	TD4	B2	10B	ED1790	00	=		
XA109	TD4	B2	11A	(21)	01		SPA005 ED171A SPA006 ED173A 20 11A 18 10A 14 09A 19 09B	ED 17 INPUT DATA GATE - 0
				ED188I	00	=		
XA116	TDD	MI	36A	( )	01		ED1890 71 36A	
				ED188N	00	=		
XA116	TDD	MN	34A	( )	01		EDCPCB 72 34A	DIAGNOSE RGSTR CLOCK B US
XA116	TDD	MP	35A	ED188P	00	=		
XA116	TDD	MP	36B	(69)	01		J4RES0 73 36B	
XA116	TDD	MQ	35B	ED188Q	00	=		
XA116	TDD	MQ	34B	(74)	01		JDIG8D4 65 34B	ED 18 - PRESET
XA111	TQ2	A1	05A	ED181A	00	=		
XA111	TQ2	A1	07A	(06)	01		CC10Q0 EDC2D0 10 07A 08 06A	CC 10 TO ED 18
XA107	TQ2	A2	02B	ED183A	00	=		
XA107	TQ2	A2	04A	(01)	01		ED188Q EDC2CA 04 04A 05 03B	RECIRCULATE ED 18
XA109	TD4	A1	05B	ED1890	00	=		
XA109	TD4	A1	07A	(11)	01		SPA005 SPA004 ED181A ED183A 10 07A 08 06A 06 05A 13 06B	ED 18 INPUT DATA GATE - 0
XA108	TT3	A1	04A	EEDIGA	00	=		
XA108	TT3	A1	07A	(04)	01		E073C0 CS0EBQ EHZR0 10 07A 08 06A 06 05A	DIAGNOSE INSTR OPTION I-EXE

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA114	TQ2	B1	12A	EEDIG0	00	=		
XA114	TQ2	B1	14A	(22)	01		SPA010 EEDIGA 26 14A 24 13A	
XA111	TQ2	A4	07B	EEDTCA	00	=		ATES/DIGI-APOL
XA111	TQ2	A4	05B	(15)	01		PLPR20 EEDTC0 11 05B 13 06B	
XA107	TQ2	C1	18A	EEDTC0	00	=		
XA107	TQ2	C1	20A	(38)	01		ES0TBP EEDIGA 42 20A 40 19A	
XA113	TQ2	A2	02B	EEDTE0	00	=		ATES/DIGI-OPOL
XA113	TQ2	A2	04A	(01)	01		EEDTCA SPA008 04 04A 05 03B	
XA112	TD4	B2	10B	EHZRCA	00	=		COMMAND H FLD IS ZERO
XA112	TD4	B2	11A	(21)	01		CC11BP CC10BP CC09BP CC12BP 20 11A 18 10A 14 09A 19 09B	
XA107	TQ2	A1	05A	EHZRCA	00	=		
XA107	TQ2	A1	07A	(06)	01		EHZRCA SPA004 10 07A 08 06A	
XA113	TQ2	C1	18A	ERUSCA	00	=		STOP IF ERROR- ATES/DIG
XA113	TQ2	C1	20A	(38)	01		CR01BP ERUSCO 42 20A 40 19A	
XA110	TS8	C1	17B	ERUSCO	00	=		
XA110	TS8	C1	20A	(35)	01		SPA008 ERUSNA ERUSDA ERUSJA ERUSLA ERUSKA ERUSFA ERUSGA 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA113	TQ2	C2	15A	ERUSDA	00	=		STATE.(DB ALL ONES)*
XA113	TQ2	C2	17A	(30)	01		ERUSE0 EDBUNA 36 17A 34 16A	
XA110	TS8	D1	25B	ERUSE0	00	=		TO/T1/T10/T11/
XA110	TS8	D1	26A	(47)	01		EY12CA EUI1CA EU12CA ETO1CA ET14CA ET11CA EU14CA EUO1CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA108	TT3	E3	33B	ERUSFA	00	=		
XA108	TT3	E3	30B	(63)	01		EDBUNA EVO2CO CK2UCA 57 30B 59 31B 61 32B	
XA113	TQ2	A4	07B	ERUSGA	00	=		STATE.((CKZR*.DBONES*))/
XA113	TQ2	A4	05B	(15)	01		ERUSZO ERUSHO 11 05B 13 06B	

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XA110	TS8	E1	31B	ERUSHO	00	H		T2/T3/T4/T5/(E2/E3/E4/E5)
XA110	TS8	E1	33A	(59)	01		EU04CA ET04CA EU06CA ET06CA ET05CA EU05CA ET03CA EU03CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA113	TQ2	B1	12A	ERUSJA	00	=		F6DIG.(CKZ8*.DBONES*)/
XA113	TQ2	B1	14A	(22)	01		EU07CO ERUSZO 26 14A 24 13A	
XA113	TQ2	B2	09A	ERUSKA	00	=		T6.(CKZ8*.D24ONES*)/
XA113	TQ2	B2	11A	(14)	01		ERUSXO ET07CO 20 11A 18 10A	
XA113	TQ2	B3	10B	ERUSLA	00	=		STATE.(DB ALL ZERO)*
XA113	TQ2	B3	08B	(21)	01		ERUSMO EDBZRA 17 08B 19 09B	
XA110	TS8	F1	37A	ERUSMO	00	=		T7/T12/T14/T15/(DIG.(E7/E12)/
XA110	TS8	F1	39B	(76)	01		ET10CA EU13CA EU10CA ET16CA ET15CA ET13CA EU15CA EU16CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA113	TQ2	B4	13B	ERUSNA	00	=		(T16/E16DIG).(DBZFRQ)*
XA113	TQ2	B4	11B	(27)	01		EDBZRA EV17CO 23 11B 25 12B	
XA111	TQ2	F1	37B	ERUSXO	00	=		(CKZ8*.D24ONES*)/
XA111	TQ2	F1	39B	(75)	01		ERUS3A ERUS2A 79 39B 77 38B	
XA111	TQ2	F2	34A	ERUSZO	00	=		(CKZ8*.DBONES*)/
XA111	TQ2	F2	36B	(72)	01		ERUS1A ERUS0A 73 36B 71 36A	
XA113	TQ2	A1	05A	ERUSOA	00	=		(CK=1)*.(DB=ZFRQ)*
XA113	TQ2	A1	07A	(06)	01		CKZUCA EDBZRA 10 07A 08 06A	
XA113	TQ2	C3	16B	ERUS1A	00	=		(CK=0)*.(DB=ONES)*
XA113	TQ2	C3	14B	(33)	01		EDBUNA CKZRDA 29 14B 31 15B	
XA113	TQ2	C4	19B	ERUS2A	00	=		(CK=1)*.(DB0831=ONES)*
XA113	TQ2	C4	17B	(39)	01		CKZUCA EDBZRA 35 17B 37 18B	
XA113	TQ2	F1	37B	ERUS3A	00	=		(CK=0)*.(DB0831=ZFRQ)*
XA113	TQ2	F1	39B	(75)	01		CKZRDA EDBU8A 79 39B 77 38B	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA111	TQ2	F3	35A	ESE2CA	00	=		
XA111	TQ2	F3	34B	(69)	01		CKZRDA EU07C0 65 34B 74 35B	SLC ES02 IF CKZR*.E7D1G1
XA111	TQ2	F4	39A	EST2CA	00	=		
XA111	TQ2	F4	37A	(80)	01		CKZRDA ET07C0 76 37A 78 38A	SLC TS02 IF CKZR*
XA117	TDD	L1	38B	ESOTBI	00	=		
XA117	TDD	L1		( )	01		ESOT90 77 38B	
XA117	TDD	LN	39B	ESOTBN	00	=		
XA117	TDD	LN		( )	01		CRCPXA 79 39B	
XA117	TDD	LP	37A	ESOTBP	00	=		
XA117	TDD	LP	37B	(76)	01		J3RES0 75 37B	
XA117	TDD	LQ	38A	ESOTBQ	00	=		
XA117	TDD	LQ	39A	(78)	01		CS0BSA 80 39A	SET AT BOOTSTRAP ENTRY
XA107	TQ2	A3	04B	ESOTCA	00	=		
XA107	TQ2	A3	02A	(09)	01		ESOTBQ CSOLBP 03 02A 07 03A	AUTOMATIC TEST STATE
XA111	TQ2	A2	02B	ESOTCO	00	=		
XA111	TQ2	A2	04A	(01)	01		ESOTCA SPA007 04 04A 05 03B	ATES
XA107	TQ2	A4	07B	ESOTDA	00	=		
XA107	TQ2	A4	05B	(15)	01		CSOLBP ESOTBQ 11 05B 13 06B	AUTOMATIC TEST STATE- UNLOAD
XA105	TQ2	A1	05A	ESOTD0	00	=		
XA105	TQ2	A1	07A	(06)	01		SPA002 ESOTDA 10 07A 08 06A	ATES
XA108	TT3	B1	11A	ESOTRA	00	=		
XA108	TT3	B1	14A	(20)	01		CS0BBQ JS77A0 ESOTBQ 26 14A 24 13A 22 12A	BTSP RESET CS.PT WHEN ATES
XA109	TU4	A2	04B	ESOTXA	00	=		
XA109	TU4	A2	04A	(09)	01		CMD5BQ CMD6BP CMD8BP CMD7BQ 04 04A 05 03B 01 02B 07 03A	RST ATES AT T17

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
XA105	TQ2	A2	02B	ESOT1A	00	=		
XA105	TQ2	A2	04A	(01)	01		ESOTXA ESOTBQ 04 04A 05 03B	HOLD AUTO TEST
XA106	TD4	C1	17B	ESOT90	00	=		
XA106	TD4	C1	20A	(35)	01		SPA012 CS0B2A SPA023 ESOT1A 42 20A 40 19A 38 18A 37 18B	DATA IN-ATES SET
XA105	TQ2	A3	04B	ET00CA	00	=		
XA105	TQ2	A3	02A	(09)	01		CD00C0 ESOTC0 03 02A 07 03A	
XA105	TQ2	A4	07B	ET01CA	00	=		
XA105	TQ2	A4	05B	(15)	01		ESOTC0 CD01C0 11 05B 13 06B	
XA105	TQ2	B2	09A	ET02CA	00	=		
XA105	TQ2	B2	11A	(14)	01		CD02C0 ESOTC0 20 11A 18 10A	
XA105	TQ2	B3	10B	ET03CA	00	=		
XA105	TQ2	B3	08B	(21)	01		ESOTC0 CD03C0 17 08B 19 09B	
XA105	TQ2	B4	13B	ET04CA	00	=		
XA105	TQ2	B4	11B	(27)	01		ESOTC0 CD04C0 23 11B 25 12B	
XA107	TQ2	B4	13B	ET05CA	00	=		
XA107	TQ2	B4	11B	(27)	01		ESOTC0 CD05C0 23 11B 25 12B	
XA105	TQ2	B1	12A	ET06CA	00	=		
XA105	TQ2	B1	14A	(22)	01		CD06C0 ESOTC0 26 14A 24 13A	
XA105	TQ2	C2	15A	ET07CA	00	=		
XA105	TQ2	C2	17A	(30)	01		CD07C0 ESOTC0 36 17A 34 16A	
XA107	TQ2	C2	15A	ET07C0	00	=		
XA107	TQ2	C2	17A	(30)	01		ET07CA SPA004 36 17A 34 16A	T7
XA108	TT3	B2	09B	ET10CA	00	=		
XA108	TT3	B2	10A	(19)	01		CS07BP CS009P ESOTD0 18 10A 14 09A 17 08B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG. PREFIX	FACTOR	COMMENT
XA108	TT3	B3	13B	ET11CA	00	=		
XA108	TT3	B3	10B	(27)	01		CS008Q CS01P0 ES0TDO 21 10B 23 11B 25 12B	
XA105	TQ2	D1	24A	ET11C0	00	=		
XA105	TQ2	D1	26A	(52)	01		ET11CA SPA003 56 26A 54 25A	
XA108	TT3	C1	17A	ET12CA	00	=		
XA108	TT3	C1	20A	(36)	01		CS02P0 CS01Q0 ES0TDO 42 20A 40 19A 38 18A	
XA108	TT3	C2	15B	ET13CA	00	=		
XA108	TT3	C2	16A	(31)	01		CS03P0 CS02Q0 ES0TDO 34 16A 30 15A 29 14B	
XA108	TT3	C3	19B	ET14CA	00	=		
XA108	TT3	C3	16B	(39)	01		ES0TDO CS04P0 CS03Q0 33 16B 35 17B 37 18B	
XA108	TT3	D1	23A	ET15CA	00	=		
XA108	TT3	D1	26A	(50)	01		CS05P0 CS04Q0 ES0TDO 56 26A 54 25A 52 24A	
XA108	TT3	D2	23B	ET16CA	00	=		
XA108	TT3	D2	22A	(43)	01		CS05Q0 ES0TDO CS06BP 48 22A 46 21A 41 22B	
XA108	TT3	D3	27B	ET17CA	00	=		
XA108	TT3	D3	24B	(51)	01		ES0TDO CS06Q0 CS07BP 45 24B 47 25B 49 26B	
XA111	TQ2	B1	12A	EUDGCO	00	=		(DIG).(H = 0).(ES XX) - 0
XA111	TQ2	B1	14A	(22)	01		SPA007 EEDIGA 26 14A 24 13A	
XA111	TQ2	B2	09A	EUDGDO	00	=		(DIG).(H = 0).(ES XX) - 0
XA111	TQ2	B2	11A	(14)	01		EEDIGA SPA007 20 11A 18 10A	
XA104	TQ2	A1	05A	EU00CA	00	=		(DIG).(H = 0).(ES 00)
XA104	TQ2	A1	07A	(06)	01		CE00A0 EUDGCO 10 07A 08 06A	
XA104	TQ2	A2	02B	EU01CA	00	=		(DIG).(H = 0).(ES 01)
XA104	TQ2	A2	04A	(01)	01		CE01D0 EUDGCO 04 04A 05 03B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA104	TQ2	A3	04B	EU02CA	00	=		(DIG). (H = 0). (ES 02)
XA104	TQ2	A3	02A	(09)	01		EUDGCO CE02HO 03 02A 07 03A	
XA104	TQ2	A4	07B	EU03CA	00	=		(DIG). (H = 0). (ES 03)
XA104	TQ2	A4	05B	(15)	01		EUDGCO CE03PO 11 05B 13 06B	
XA104	TQ2	B1	12A	EU04CA	00	=		(DIG). (H = 0). (ES 04)
XA104	TQ2	B1	14A	(22)	01		CE04MO EUDGCO 26 14A 24 13A	
XA104	TQ2	B2	09A	EU05CA	00	=		(DIG). (H = 0). (ES 05)
XA104	TQ2	B2	11A	(14)	01		CE05MO EUDGCO 20 11A 18 10A	
XA104	TQ2	B3	10B	EU06CA	00	=		(DIG). (H = 0). (ES 06)
XA104	TQ2	B3	08B	(21)	01		EUDGCO CE06DO 17 08B 19 09B	
XA104	TQ2	B4	13B	EU07CA	00	=		(DIG). (H = 0). (ES 07)
XA104	TQ2	B4	11B	(27)	01		EUDGCO CE07DO 23 11B 25 12B	
XA105	TQ2	C4	19B	EU07CO	00	=		E7.DIGI
XA105	TQ2	C4	17B	(39)	01		SPA003 EU07CA 35 17B 37 18B	
XA105	TQ2	C1	18A	EU10CA	00	=		(DIG). (H = 0). (ES 10)
XA105	TQ2	C1	20A	(38)	01		CE10DO EUDGDO 42 20A 40 19A	
XA104	TQ2	C2	15A	EU11CA	00	=		(DIG). (H = 0). (ES 11)
XA104	TQ2	C2	17A	(30)	01		CE11CO EUDGDO 36 17A 34 16A	
XA104	TQ2	C3	16B	EU12CA	00	=		(DIG). (H = 0). (ES 12)
XA104	TQ2	C3	14B	(33)	01		EUDGDO CE12CO 29 14B 31 15B	
XA104	TQ2	C4	19B	EU13CA	00	=		(DIG). (H = 0). (ES 13)
XA104	TQ2	C4	17B	(39)	01		EUDGDO CE13CO 35 17B 37 18B	
XA107	TQ2	C3	16B	EU14CA	00	=		(DIG). (H = 0). (ES 14)
XA107	TQ2	C3	14B	(33)	01		CE14CO EUDGDO 29 14B 31 15B	

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			AND	OR					
XA107	TQ2	C4	19B		EU15CA	00	=	(DIG).(H = 0).(ES 15)	
XA107	TQ2	C4	17B		(39)	01		EUDGDO CEI5C0 35 17B 37 18B	
XA107	TQ2	D1	24A		EU16CA	00	=	(DIG).(H = 0).(ES 16)	
XA107	TQ2	D1	26A		(52)	01		CEI6C0 EUDGDO 56 26A 54 25A	
XA107	TQ2	D2	21A		EU17CA	00	=	(DIG).(H = 0).(ES 17)	
XA107	TQ2	D2	23A		(46)	01		EUDGDO CEI7C0 50 23A 48 22A	
XA104	TQ2	D1	24A		EVO1CA	00	=		
XA104	TQ2	D1	26A		(52)	01		EVO1C0 SPA001 56 26A 54 25A	
XA107	TQ2	D3	24B		EVO1C0	00	=	T1/E10DIGI	
XA107	TQ2	D3	22B		(45)	01		EVO1CA EU01CA 41 22B 43 23B	
XA107	TQ2	F4	39A		EVO2C0	00	=		
XA107	TQ2	F4	37A		(80)	01		EVO2CA EU02CA 76 37A 78 38A	
XA104	TQ2	D2	21A		EVO7CA	00	=	T7/E7DIGI	
XA104	TQ2	D2	23A		(46)	01		EVO7C0 SPA001 50 23A 48 22A	
XA107	TQ2	D4	27B		EVO7C0	00	=	T7/(E7DIGI)	
XA107	TQ2	D4	25B		(51)	01		EVO7CA EU07CA 47 25B 49 26B	
XA105	TQ2	D3	24B		EV17C0	00	=	T16/(E16.DIGI)	
XA105	TQ2	D3	22B		(45)	01		EV17CA ET17CA 41 22B 43 23B	
XA106	TD4	A1	05B		EX06G0	00	=	SET GI STATE IN ATE5/DIGI	
XA106	TD4	A1	07A		(11)	01		EED1GA EX06HA SPA010 SPA013 10 07A 08 06A 06 05A 13 06B	
XA104	TQ2	D3	24B		EX06HA	00	=	ALL EXCPT T6 IN ATE5	
XA104	TQ2	D3	22B		(45)	01		EVO6CA EEDTC0 41 22B 43 23B	
XA104	TQ2	D4	27B		EYABLA	00	=	BLO YA0031080031 FOR MIC TST	
XA104	TQ2	D4	25B		(51)	01		ED07C0 ES07C0 47 25B 49 26B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA105	TQ2	D4	27B		E073C0	00		DIAGNOSE COMMAND DECODE	
XA105	TQ2	D4	25B	(51)		01	SPA003 C073CA 47 25B 49 26B		
XA104	TQ2	E1	31A		E200CA	00		DB 00-31 TO AC SE-31 - DIG-A	
XA104	TQ2	E1	33A	(66)		01	SPA002 E200C0 70 33A 68 32A		
XA103	TS8	C1	17B		E200C0	00		DB 00-31 TO AC SE-31 -DIG-0	
XA103	TS8	C1	20A	(35)		01	ET07CA ET01CA EU11CA SPA001 EU01CA EU07CA ET11CA SPA002 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B		
XA105	TQ2	E1	31A		E203CA	00		CLEAR AC SE-31 - DIG - A	
XA105	TQ2	E1	33A	(66)		01	SPA004 E203C0 70 33A 68 32A		
XA107	TQ2	E1	31A		E203C0	00		CLEAR AC SE-31 - DIG - 0	
XA107	TQ2	E1	33A	(66)		01	EU13CA ET13CA 70 33A 68 32A		
XA104	TQ2	E2	28A		E214CA	00		DB 00-31 TO AY SE-31 - DIG-A	
XA104	TQ2	E2	30A	(60)		01	SPA001 E214C0 64 30A 62 29A		
XA110	TS8	A1	05B		E214C0	00		DB 00-31 TO AY SE-31 - DIG-0	
XA110	TS8	A1	07A	(11)		01	ET01CA ET10CA ET12CA EU10CA EU01CA EU07CA EU12CA ET07CA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B		
XA105	TQ2	E2	28A		E236CA	00		AC 00-31 TO DB 00-31 - DIG-A	
XA105	TQ2	E2	30A	(60)		01	SPA003 E236C0 64 30A 62 29A		
XA107	TQ2	E2	28A		E236C0	00		AC 00-31 TO DB 00-31 - DIG-0	
XA107	TQ2	E2	30A	(60)		01	ET02CA EU02CA 64 30A 62 29A		
XA105	TQ2	E3	30B		E237CA	00		AY 00-31 TO DB 00-31 - DIG-A	
XA105	TQ2	E3	28B	(57)		01	SPA003 E237C0 53 28B 55 29B		
XA107	TQ2	E3	30B		E237C0	00		AY 00-31 TO DB 00-31 - DIG-0	
XA107	TQ2	E3	28B	(57)		01	EU03CA ET03CA 53 28B 55 29B		
XA104	TQ2	E3	30B		E242CA	00		AT 00-31 TO DB 00-31 - DIG-A	
XA104	TQ2	E3	28B	(57)		01	E242C0 SPA001 53 28B 55 29B		

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA103	TS8	D1	25B	E242C0	00	=		
XA103	TS8	D1	25A	(47)	01		ET12CA ET13CA ET11CA ET14CA EU14CA EU12CA EU13CA EU11CA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	AT 00-31 TO DB 00-31 - DIG-0
XA105	TQ2	E4	33B	E339CA	00	=		
XA105	TQ2	E4	31B	(63)	01		SPA003 E339C0 59 31B 61 32B	LOA +00003CK0005
XA107	TQ2	E4	33B	E339C0	00	=		
XA107	TQ2	E4	31B	(63)	01		ET00CA EU00CA 59 31B 61 32B	TO/(EO.DIGI)
XA107	TQ2	F1	37B	E345CA	00	=		
XA107	TQ2	F1	39B	(75)	01		SPA004 E345C0 79 39B 77 38B	BTR DB1630CL0014
XA108	TT3	E1	30A	E345C0	00	=		
XA108	TT3	E1	33A	(64)	01		EU07CA EU10CA EU17CA 70 33A 68 32A 66 31A	DIGI.(E7/E10/E17)
XA104	TQ2	E4	33B	E360CA	00	=		
XA104	TQ2	E4	31B	(63)	01		E360C0 SPA001 59 31B 61 32B	DTR-77777TB0015,TB1631
XA106	TD4	E1	31B	E360C0	00	=		
XA106	TD4	E1	33A	(59)	01		ET00CA EU00CA SPA004 EU10CA 70 33A 68 32A 66 31A 61 32B	TO/(EO.DIGI)/T10
XA105	TQ2	F1	37B	E361CA	00	=		
XA105	TQ2	F1	39B	(75)	01		SPA004 EV01C0 79 39B 77 38B	BLO CN0015DB1631
XA104	TQ2	F1	37B	E406CA	00	=		
XA104	TQ2	F1	39B	(75)	01		SPA002 E406C0 79 39B 77 38B	GR 00-31 TO DB 00-31 - DIG-A
XA103	TS8	E1	31B	E406C0	00	=		
XA103	TS8	E1	33A	(59)	01		EU07CA ET01CA SPA002 ET07CA ET04CA EU04CA SPA001 EU01CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	ONE TO GA 00-03 - DIG - 0
XA104	TQ2	F2	34A	E450CA	00	=		
XA104	TQ2	F2	36B	(72)	01		E450C0 SPA002 73 36B 71 36A	DB 00-31 TO GR 00-31 - DIG-A
XA103	TS8	F1	37A	E450C0	00	=		
XA103	TS8	F1	39B	(76)	01		ET15CA EU00CA EU07CA EU01CA ET07CA ET01CA ET00CA EU15CA 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	DB 00-31 TO GR 00-31 - DIG-0

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XA107	TQ2	F2	34A	E457CA	00	=		
XA107	TQ2	F2	36B	(72)	01		SPA004 E457C0 73 36B 71 36A	ONE TO GA 00-03 - DIG - A
XA106	TD4	E2	30B	E457C0	00	=		
XA106	TD4	E2	30A	(57)	01		ET04CA EU04CA ET16CA EU16CA 64 30A 62 29A 60 28A 55 29B	GR 00-31 TO DB 00-31 - DIG-0
XA105	TQ2	F2	34A	E518CA	00	=		
XA105	TQ2	F2	36B	(72)	01		SPA004 E518C0 73 36B 71 36A	BTR DB1631MA0015
XA104	TQ2	F3	35A	E518C0	00	=		
XA104	TQ2	F3	34B	(69)	01		ET07CA ETO0CA 65 34B 74 35B	TO/I7
XA105	TQ2	F3	35A	E522CA	00	=		
XA105	TQ2	F3	34B	(69)	01		SPA004 E522C0 65 34B 74 35B	BTR DB0031MD0031
XA106	TD4	F1	37A	E522C0	00	=		
XA106	TD4	F1	39B	(76)	01		ET07CA EU01CA ETO1CA EU07CA 79 39B 77 38B 75 37B 78 38A	TI/I7/E1DIGI/E7DIGI
XA104	TQ2	F4	39A	E605CA	00	=		
XA104	TQ2	F4	37A	(80)	01		E605C0 SPA002 76 37A 78 38A	
XA103	TS8	B1	11B	E605C0	00	=		
XA103	TS8	B1	14A	(23)	01		EU06CA EU15CA ET01CA ET15CA ET10CA EU01CA SPA001 SPA002 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	TI/T10/T15/E1DIGI/E15DIGI
XA105	TQ2	F4	39A	E621CA	00	=		
XA105	TQ2	F4	37A	(80)	01		E621C0 SPA003 76 37A 78 38A	BTR DB0015PQ0015
XA106	TD4	F2	35A	E621C0	00	=		
XA106	TD4	F2	36B	(69)	01		EU07CA EU00CA ET12CA ETO0CA 73 36B 71 36A 72 34A 74 35B	TO/T12/E0DIGI/E12DIGI
XA107	TQ2	F3	35A	E705DA	00	=		
XA107	TQ2	F3	34B	(69)	01		E705D0 SPA001 65 34B 74 35B	
XA108	TT3	E2	29B	E705D0	00	=		
XA108	TT3	E2	29A	(55)	01		EU10CA ETO0CA EU00CA 62 29A 60 28A 53 28B	TO/E0DIGI/E10DIGI



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA341	TQ2	A4	07B	JACKAO	00	=		E5.(DIF/DIH)
XA341	TQ2	A4	05B	(15)	01		JACKAD4 SPI026 11 05B 13 06B	
XA340	TQ2	D3	24B	JACKCA	00	=		BTSP/PME
XA340	TQ2	D3	22B	(45)	01		SPI026 JACKAO 41 22B 43 23B	
XA321	TQ2	A1	05A	JACKCO	00	=		
XA321	TQ2	A1	07A	(06)	01		JACKCA SPA079 10 07A 08 06A	
XA317	TQ2	A1	05A	JBSTAO	00	=		FR IO- BOOTSTRAP STATUS
XA317	TQ2	A1	07A	(06)	01		JBSTAD4 SPA079 10 07A 08 06A	
XA333	TLD	B2	09A	JCPUED4	00	=		CPU/IOC ERROR TO IO
XA333	TLD	B2	11A	(14)	01		CNOUE0 EEDTCA 20 11A 18 10A	
XA321	TQ2	A4	07B	JCOMCO	00	=		
XA321	TQ2	A4	05B	(15)	01		CTRLBP C704CA 11 05B 13 06B	
XA333	TLD	C2	15A	JDECAD4	00	=		TO IO- DEC COMMAND
XA333	TLD	C2	17A	(30)	01		CMT18Q CTRLBQ 36 17A 34 16A	
XA317	TQ2	A2	02B	JIPERO	00	=		
XA317	TQ2	A2	04A	(01)	01		JIPED4 SPA078 04 04A 05 03B	
XA333	TLD	D2	21A	JITRAD4	00	=		TO IO- ITR COMMAND
XA333	TLD	D2	23A	(46)	01		CMT28Q CTRLBQ 50 23A 48 22A	
XA333	TLD	C4	19B	JITRSD4	00	=		
XA333	TLD	C4	17B	(39)	01		CRUNQ0 JITRTO 35 17B 37 18B	
XA341	TQ2	D3	24B	JITRTO	00	=		
XA341	TQ2	D3	22B	(45)	01		SPA092 DTTDCA 41 22B 43 23B	
XA317	TQ2	A3	04B	JITTAO	00	=		
XA317	TQ2	A3	02A	(09)	01		JITTD4 SPA078 03 02A 07 03A	

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XA333	TLD	E2	28A	JMPEID4	00	=		
XA333	TLD	E2	30A	(60)	01		SPA093 UMPEIO 64 30A 62 29A	TO IO- MEM PAR ER INH CONTR
XA332	TLD	C2	15A	JQMPED4	00	=		
XA332	TLD	C2	17A	(30)	01		PQMPEO SPA091 36 17A 34 16A	TO IO- CPU MEM PAR ERROR IND
XA332	TLD	D2	21A	JQMTOD4	00	=		
XA332	TLD	D2	23A	(46)	01		PQ04BQ SPA091 50 23A 48 22A	TO IO- CPU MEM TIMEOUT IND
XA317	TQ2	C4	19B	JS02A0	00	=		
XA317	TQ2	C4	17B	(39)	01		JS02AD4 SPI034 35 17B 37 18B	
XA317	TQ2	A4	07B	JS77A0	00	=		
XA317	TQ2	A4	05B	(15)	01		JS77AD4 SPA079 11 05B 13 06B	STIM LEVEL 77 FROM IO
XA331	TLD	D2	21A	J0FRAD4	00	=		
XA331	TLD	D2	23A	(46)	01		CMT3BQ JCOMCO 50 23A 48 22A	TO IO- DEF COMMAND
XA331	TLD	C4	19B	J1RESD	00	=		
XA331	TLD	C4	17B	(39)	01		JMTSCO SPA170 35 17B 37 18B	
XA331	TLD	D4	27B	J2RESD	00	=		
XA331	TLD	D4	25B	(51)	01		JMTSCO SPA170 47 25B 49 26B	
XA332	TLD	C4	19B	J3RESD	00	=		
XA332	TLD	C4	17B	(39)	01		JMTSCO SPA170 35 17B 37 18B	
XA332	TLD	D4	27B	J4RESD	00	=		
XA332	TLD	D4	25B	(51)	01		JMTSCO SPA090 47 25B 49 26B	
				KBAY2B	00	=		
XA138	DCF	D5	38B	( )	01		KBY2LDX 80 38B	
XA137	DCF	D5	38B	( )	02	+	KBY2DDX 80 38B	CPU POWER ON TO F/P
				KBSCDB	00	=		
XA137	DCF	D1	32B	( )	01		KBSCDDX 65 32B	LOAD STATUS CPU TOF/P
XA138	DCF	D1	32B	( )	02	+	KBSCLDX 65 32B	TEST LOAD STATUS CPU D RIVER

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			AND	OR					
XA137	DCF	D1	32B		KBSCDDX	00	=		
XA137	DCF	D1	36A		(65)	01		EDGNDA 72 36A	KBSCDB BUSS
XA137	DCF	D2	33B		KBSCDOX	00	=		
XA137	DCF	D2	34B		(69)	01		EBSCBQ 71 34B	
XA138	DCF	D1	32B		KBSCLOX	00	=		KBSCDB BUSS
XA138	DCF	D1	36A		(65)	01		WKLTSB 72 36A	
XA138	DCF	D2	33B		KBSCLOX	00	=		
XA138	DCF	D2	34B		(69)	01		SPA2I3 71 34B	
					KBSIDB	00	=		
XA138	DCF	D7	33A		( )	01		KBSIDOX 61 33A	TEST LOAD STATUS IOU D
XA137	DCF	D7	33A		( )	02	+	KBSIDOX 61 33A	RIVER LOAD STATUS IOU TOF/P
XA137	DCF	D7	33A		KBSIDOX	00	=		KBSCDB BUSS
XA137	DCF	D7	36A		(61)	01		EDGNDA 72 36A	
XA137	DCF	D8	34A		KBSIDOX	00	=		
XA137	DCF	D8	35A		(68)	01		EBBIBQ 70 35A	
XA138	DCF	D7	33A		KBSIDOX	00	=		KBSCDB BUSS
XA138	DCF	D7	36A		(61)	01		WKLTSB 72 36A	
XA138	DCF	D8	34A		KBSILOX	00	=		
XA138	DCF	D8	35A		(68)	01		SPA2I3 70 35A	
XA137	DCF	D5	38B		KBY2D0X	00	=		KBAY2B BUSS
XA137	DCF	D5	36A		(80)	01		EDGNDA 72 36A	
XA137	DCF	D6	38A		KBY2D0X	00	=		
XA137	DCF	D6	37A		(76)	01		SPA2I3 74 37A	
XA138	DCF	D5	38B		KBY2L0X	00	=		KBAY2B BUSS
XA138	DCF	D5	36A		(80)	01		WKLTSB 72 36A	

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XA138	DCF	D6	38A	KBY2LOX	00	=		
XA138	DCF	D6	37A	(76)	01	=	SPA213 74 37A	
				KCPSDB	00	=		
XA138	DCF	D3	37B	( )	01	=	KCPSLDX 78 37B	TEST CPU STOPPED DRIVE R
XA137	DCF	D3	37B	( )	02	+	KCPSDDX 78 37B	CPU STOPPED TO F/P
XA137	DCF	D3	37B	KCPSDDX	00	=		KCPSDB BUSS
XA137	DCF	D3	36A	(78)	01	=	EDGNDA 72 36A	
XA137	DCF	D4	36B	KCPSDOX	00	=		
XA137	DCF	D4	35B	(75)	01	=	CRUNBP 73 35B	
XA138	DCF	D3	37B	KCPSLDX	00	=		KCPSDB BUSS
XA138	DCF	D3	36A	(78)	01	=	WKLYSB 72 36A	
XA138	DCF	D4	36B	KCPSLOX	00	=		
XA138	DCF	D4	35B	(75)	01	=	SPA213 73 35B	
				KDSCDB	00	=		
XA138	DCF	C5	31B	( )	01	=	KDSCLDX 60 31B	TEST DIAG STATUS CPU D RIVER
XA139	DCF	D5	38B	( )	02	+	KDSCDDX 80 38B	DIAG STATUS CPU TOF/P
XA139	DCF	D5	38B	KDSCDDX	00	=		KDSCDB BUSS
XA139	DCF	D5	36A	(80)	01	=	EDGNDA 72 36A	
XA139	DCF	D6	38A	KDSCDOX	00	=		
XA139	DCF	D6	37A	(76)	01	=	EDSCBQ 74 37A	
XA138	DCF	C5	31B	KDSCLDX	00	=		KDSCDB BUSS
XA138	DCF	C5	29A	(60)	01	=	WKLYSB 52 29A	
XA138	DCF	C6	31A	KDSCLOX	00	=		
XA138	DCF	C6	30A	(57)	01	=	SPA213 54 30A	

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				KDSIDB	00	=		
XA138	DCF	C3	30B	( )	01		KDSILD 55 30B	TEST DIAG STATUS DRIVE R
XA139	DCF	D3	37B	( )	02	+	KDSIDDX 78 37B	DIAG STATUS IOU TOF/P
XA139	DCF	D3	37B	KDSIDDX	00	=		KDSIDB BUSS
XA139	DCF	D3	36A	(78 )	01		EDGND 72 36A	
XA139	DCF	D4	36B	KDSIDOX	00	=		
XA139	DCF	D4	35B	(75 )	01		EDSIBQ 73 35B	
XA138	DCF	C3	30B	KDSILD	00	=		KDSIDB BUSS
XA138	DCF	C3	29A	(55 )	01		WKLTSB 52 29A	
XA138	DCF	C4	29B	KDSILOX	00	=		
XA138	DCF	C4	28B	(56 )	01		SPAZ12 51 28B	
				KD01DB	00	=		
XA137	DCF	A7	02A	( )	01		KD0ILD 01 02A	TEST DIAG 01 DRV
XA139	DCF	A7	02A	( )	02	+	KD0IDDX 01 02A	DIAG 01 TO F/P LED64
XA139	DCF	A7	02A	KD0IDDX	00	=		KD01DB BUSS
XA139	DCF	A7	05A	(01 )	01		EDGND 06 05A	
XA139	DCF	A8	03A	KD01DOX	00	=		
XA139	DCF	A8	04A	(03 )	01		ED0IBQ 04 04A	
XA137	DCF	A7	02A	KD01LD	00	=		KD01DB BUSS
XA137	DCF	A7	05A	(01 )	01		WKLTSB 06 05A	
XA137	DCF	A8	03A	KD01LOX	00	=		
XA137	DCF	A8	04A	(03 )	01		SPAZ10 04 04A	
				KD02DB	00	=		
XA137	DCF	A1	02B	( )	01		KD02LD 07 02B	TEST DIAG 02 DRV
XA139	DCF	A1	02B	( )	02	+	KD02DDX 07 02B	DIAG 02 TO F/P LED62

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
			AND	OR					
XA139	DCF	A1	02B		KD02DDX	00 =			
XA139	DCF	A1	05A		(07)	01	EDGNDA 06 05A	KD02DB BUSS	
XA139	DCF	A2	03B		KD02D0X	00 =			
XA139	DCF	A2	04B		(09)	01	ED02BQ 11 04B		
XA137	DCF	A1	02B		KD02LDX	00 =			
XA137	DCF	A1	05A		(07)	01	WKLT5B 06 05A	KD02DB BUSS	
XA137	DCF	A2	03B		KD02LOX	00 =			
XA137	DCF	A2	04B		(09)	01	SPA210 11 04B		
					KD03DB	00 =			
XA137	DCF	A5	08B		( )	01	KD03LDX 14 08B		TEST DIAG 03 DRVR
XA139	DCF	A5	08B		( )	02 +	KD03DDX 14 08B		DIAG 03 TO F/P LED61
XA139	DCF	A5	08B		KD03DDX	00 =			
XA139	DCF	A5	05A		(14)	01	EDGNDA 06 05A	KD03DB BUSS	
XA139	DCF	A6	07A		KD03D0X	00 =			
XA139	DCF	A6	06A		(10)	01	ED03BQ 08 06A		
XA137	DCF	A5	08B		KD03LDX	00 =			
XA137	DCF	A5	05A		(14)	01	WKLT5B 06 05A	KD03DB BUSS	
XA137	DCF	A6	07A		KD03LOX	00 =			
XA137	DCF	A6	06A		(10)	01	SPA210 08 06A		
					KD04DB	00 =			
XA137	DCF	A3	07B		( )	01	KD04LDX 17 07B		TEST DIAG 04 DRVR
XA139	DCF	A3	07B		( )	02 +	KD04DDX 17 07B		DIAG 04 TO F/P LED54
XA139	DCF	A3	07B		KD04DDX	00 =			
XA139	DCF	A3	05A		(17)	01	EDGNDA 06 05A	KD04DB BUSS	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA139	DCF	A4	06B	KD04DOX	00	=		
XA139	DCF	A4	05B	(15)	01		ED04BQ 13 05B	
XA137	DCF	A3	07B	KD04LDX	00	=		KD04DB BUSS
XA137	DCF	A3	05A	(17)	01		WKLTSB 06 05A	
XA137	DCF	A4	06B	KD04LOX	00	=		
XA137	DCF	A4	05B	(15)	01		SPA211 13 05B	
				KD05DB	00	=		
XA138	DCF	A7	02A	( )	01		KD05LDX 01 02A	TEST DIAG 05 DRVR
XA139	DCF	B7	10A	( )	02	+	KD05DDX 23 10A	DIAG 05 TO F/P LED52
XA139	DCF	B7	10A	KD05DDX	00	=		KD05DB BUSS
XA139	DCF	B7	13A	(23)	01		EDGNDA 36 13A	
XA139	DCF	B8	11A	KD05DOX	00	=		
XA139	DCF	B8	12A	(30)	01		ED05BQ 34 12A	
XA138	DCF	A7	02A	KD05LDX	00	=		KD05DB BUSS
XA138	DCF	A7	05A	(01)	01		WKLTSB 06 05A	
XA138	DCF	A8	03A	KD05LOX	00	=		
XA138	DCF	A8	04A	(03)	01		SPA210 04 04A	
				KD06DB	00	=		
XA138	DCF	A1	02B	( )	01		KD06LDX 07 02B	TEST DIAG 06 DRVR
XA139	DCF	B1	10B	( )	02	+	KD06DDX 27 10B	DIAG 06 TO F/P LED51
XA139	DCF	B1	10B	KD06DDX	00	=		KD06DB BUSS
XA139	DCF	B1	13A	(27)	01		EDGNDA 36 13A	
XA139	DCF	B2	11B	KD06DOX	00	=		
XA139	DCF	B2	12B	(29)	01		ED06BQ 31 12B	

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CONNECTOR	DCP TYPE	GRD	TEST POINTS AND OR	EQUATION	TERM	DESIG- NATOR	FACTOR	COMMENT
XA138	DCF	A1	02B	KD06LDX	00	=		
XA138	DCF	A1	05A	(07)	01		WKLYSB 06 05A	KD06DB BUSS
XA138	DCF	A2	03B	KD06LOX	00	=		
XA138	DCF	A2	04B	(09)	01		SPA210 11 04B	
				KD07DB	00	=		
XA138	DCF	A5	08B	( )	01		KD07LDX 14 08B	TEST DIAG 07 DRVR
XA139	DCF	B3	15B	( )	02	+	KD07DDX 37 15B	DIAG 07 TO F/P LED44
XA139	DCF	B3	15B	KD07DDX	00	=		
XA139	DCF	B3	13A	(37)	01		EDGND 36 13A	KD07DB BUSS
XA139	DCF	B4	14B	KD07DOX	00	=		
XA139	DCF	B4	13B	(35)	01		ED07BQ 33 13B	
XA138	DCF	A5	08B	KD07LDX	00	=		
XA138	DCF	A5	05A	(14)	01		WKLYSB 06 05A	KD07DB BUSS
XA138	DCF	A6	07A	KD07LOX	00	=		
XA138	DCF	A6	06A	(10)	01		SPA210 08 06A	
				KD08DB	00	=		
XA138	DCF	A3	07B	( )	01		KD08LDX 17 07B	TEST DIAG 08 DRVR
XA139	DCF	B5	16A	( )	02	+	KD08DDX 41 16A	DIAG 08 TO F/P LED42
XA139	DCF	B5	16A	KD08DDX	00	=		
XA139	DCF	B5	13A	(41)	01		EDGND 36 13A	KD08DB BUSS
XA139	DCF	B6	15A	KD08DOX	00	=		
XA139	DCF	B6	14A	(40)	01		ED08BQ 38 14A	
XA138	DCF	A3	07B	KD08LDX	00	=		
XA138	DCF	A3	05A	(17)	01		WKLYSB 06 05A	KD09DB BUSS



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERN	DESIGNATOR	FACTOR	COMMENT
XA138	DCF	A4	06B	KD08LOX	00	=		
XA138	DCF	A4	05B	(15)	01		SPA211 13 05B	
				KD09DB	00	=		
XA138	DCF	B7	10A	( )	01		KD09LDX 23 10A	TEST DIAG 09 DRVR
XA137	DCF	B7	10A	( )	02	+	KD09DDX 23 10A	DIAG 09 TO F/P LED(4)
XA137	DCF	B7	10A	KD09DDX	00	=		KD09DB BUSS
XA137	DCF	B7	13A	(23)	01		EDGNDA 36 13A	
XA137	DCF	B8	11A	KD09DOX	00	=		
XA137	DCF	B8	12A	(30)	01		ED09BQ 34 12A	
XA138	DCF	B7	10A	KD09LDX	00	=		KD09DB BUSS
XA138	DCF	B7	13A	(23)	01		WKLT5B 36 13A	
XA138	DCF	B8	11A	KD09LOX	00	=		
XA138	DCF	B8	12A	(30)	01		SPA211 34 12A	
				KD10DB	00	=		
XA138	DCF	B1	10B	( )	01		KD10LDX 27 10B	TEST DIAG 10 DRVR
XA137	DCF	B1	10B	( )	02	+	KD10DDX 27 10B	DIAG 10 TO F/P LED34
XA137	DCF	B1	10B	KD10DDX	00	=		KD10DB BUSS
XA137	DCF	B1	13A	(27)	01		EDGNDA 36 13A	
XA137	DCF	B2	11B	KD10DOX	00	=		
XA137	DCF	B2	12B	(29)	01		ED10BQ 31 12B	
XA138	DCF	B1	10B	KD10LDX	00	=		KD10DB BUSS
XA138	DCF	B1	13A	(27)	01		WKLT5B 36 13A	
XA138	DCF	B2	11B	KD10LOX	00	=		
XA138	DCF	B2	12B	(29)	01		SPA211 31 12B	

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CONNECTOR	PCB REF	AREA	TEST POINTS AND OR	EQUATION	TERM	DESIG- NATOR	FACTOR	COMMENT
XA138	DCF	B3	15B	KD11DB ( )	00 =			
					01		KD11LDX 37 15B	TEST DIAG 11 DRVR
XA137	DCF	B3	15B	( )	02 +		KD11DDX 37 15B	DIAG 11 TO F/P LED32
XA137	DCF	B3	15B	KD11DDX	00 =			
XA137	DCF	B3	13A	(37 )	01		EDGND 36 13A	KD11DB BUSS
XA137	DCF	B4	14B	KD11DDX	00 =			
XA137	DCF	B4	13B	(35 )	01		ED11BQ 33 13B	
XA138	DCF	B3	15B	KD11LDX	00 =			
XA138	DCF	B3	13A	(37 )	01		WKLYSB 36 13A	KD11DB BUSS
XA138	DCF	B4	14B	KD11LOX	00 =			
XA138	DCF	B4	13B	(35 )	01		SPA211 33 13B	
				KD12DB	00 =			
XA138	DCF	B5	16A	( )	01		KD12LDX 41 16A	TEST DIAG 12 DRVR
XA137	DCF	B5	16A	( )	02 +		KD12DDX 41 16A	DIAG 12 TO F/P LED31
XA137	DCF	B5	16A	KD12DDX	00 =			
XA137	DCF	B5	13A	(41 )	01		EDGND 36 13A	KD12DB BUSS
XA137	DCF	B6	15A	KD12DDX	00 =			
XA137	DCF	B6	14A	(40 )	01		ED12BQ 38 14A	
XA138	DCF	B5	16A	KD12LDX	00 =			
XA138	DCF	B5	13A	(41 )	01		WKLYSB 36 13A	KD12DB BUSS
XA138	DCF	B6	15A	KD12LOX	00 =			
XA138	DCF	B6	14A	(40 )	01		SPA212 38 14A	
				KD13DB	00 =			
XA137	DCF	C7	25A	( )	01		KD13LDX 43 25A	TEST DIAG 13 DRVR
XA139	DCF	C7	25A	( )	02 +		KD13DDX 43 25A	DIAG 13 TO F/P LED24

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CONNECTOR	POINT	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA139	DCF	C7	25A	KD13DDX	00	=		
XA139	DCF	C7	29A	(43)	01		EDGND 52 29A	KD13DB BUSS
XA139	DCF	C8	26A	KD13DOX	00	=		
XA139	DCF	C8	28A	(48)	01		ED13BQ 50 28A	
XA137	DCF	C7	25A	KD13LDX	00	=		
XA137	DCF	C7	29A	(43)	01		WKLT5B 52 29A	KD13DB BUSS
XA137	DCF	C8	26A	KD13LOX	00	=		
XA137	DCF	C8	28A	(48)	01		SPA212 50 28A	
				KD14DB	00	=		
XA137	DCF	C1	25B	( )	01		KD14LOX 46 25B	TEST DIAG 14 DRVR
XA139	DCF	C1	25B	( )	02	+	KD14DDX 46 25B	DIAG 14 TO F/P LED22
XA139	DCF	C1	25B	KD14DDX	00	=		
XA139	DCF	C1	29A	(46)	01		EDGND 52 29A	KD14DB BUSS
XA139	DCF	C2	26B	KD14DOX	00	=		
XA139	DCF	C2	27B	(47)	01		ED14BQ 49 27B	
XA137	DCF	C1	25B	KD14LDX	00	=		
XA137	DCF	C1	29A	(46)	01		WKLT5B 52 29A	KD14DB BUSS
XA137	DCF	C2	26B	KD14LOX	00	=		
XA137	DCF	C2	27B	(47)	01		SPA212 49 27B	
				KD15DB	00	=		
XA137	DCF	C3	30B	( )	01		KD15LDX 55 30B	TEST DIAG 15 DRVR
XA139	DCF	C3	30B	( )	02	+	KD15DDX 55 30B	DIAG 15 TO F/P LED21
XA139	DCF	C3	30B	KD15DDX	00	=		
XA139	DCF	C3	29A	(55)	01		EDGND 52 29A	KD15DB BUSS

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
			AND	OR					
XA139	DCF	C4	29B		KD15DOX	00	=		
XA139	DCF	C4	28B		(56)	01		ED15BQ 51 28B	
XA137	DCF	C3	30B		KD15LOX	00	=		
XA137	DCF	C3	29A		(55)	01		WKLT5B 52 29A	KD15DB BUSS
XA137	DCF	C4	29B		KD15LOX	00	=		
XA137	DCF	C4	28B		(56)	01		SPA212 51 28B	
					KD16DB	00	=		
XA137	DCF	C5	31B		( )	01		KD16LOX 60 31B	TEST DIAG 16 DRVR
XA139	DCF	C5	31B		( )	02	+	KD16DOX 60 31B	DIAG 16 TO F/P LED14
XA139	DCF	C5	31B		KD16DOX	00	=		
XA139	DCF	C5	29A		(60)	01		EDGND A 52 29A	KD16DB BUSS
XA139	DCF	C6	31A		KD16DOX	00	=		
XA139	DCF	C6	30A		(57)	01		ED16BQ 54 30A	
XA137	DCF	C5	31B		KD16LOX	00	=		
XA137	DCF	C5	29A		(60)	01		WKLT5B 52 29A	KD16DB BUSS
XA137	DCF	C6	31A		KD16LOX	00	=		
XA137	DCF	C6	30A		(57)	01		SPA213 54 30A	
					KD17DB	00	=		
XA138	DCF	C7	25A		( )	01		KD17LDX 43 25A	TEST DIAG 17 DRVR
XA139	DCF	D7	33A		( )	02	+	KD17DOX 61 33A	DIAG 17 TO F/P LED12
XA139	DCF	D7	33A		KD17DOX	00	=		
XA139	DCF	D7	36A		(61)	01		EDGND A 72 36A	KD17DB BUSS
XA139	DCF	D8	34A		KD17DOX	00	=		
XA139	DCF	D8	35A		(68)	01		ED17BQ 70 35A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA138	DCF	C7	25A	KD17LDX	00	=		
XA138	DCF	C7	29A	(43)	01		WKLTSB 52 29A	KD17DB BUSS
XA138	DCF	C8	26A	KD17LOX	00	=		
XA138	DCF	C8	28A	(48)	01		SPA2I2 50 28A	
XA138	DCF	C1	25B	KD18DB	00	=		
XA138	DCF	C1	25B	( )	01		KD18LDX 46 25B	TEST DIAG 18 DRVR
XA139	DCF	D1	32B	( )	02	+	KD18DDX 65 32B	DIAG 18 TO F/P LED11
XA139	DCF	D1	32B	KD18DDX	00	=		
XA139	DCF	D1	36A	(65)	01		EDGND 72 36A	KD18DB BUSS
XA139	DCF	D2	33B	KD18DOX	00	=		
XA139	DCF	D2	34B	(69)	01		ED18BQ 71 34B	
XA138	DCF	C1	25B	KD18LDX	00	=		
XA138	DCF	C1	29A	(46)	01		WKLTSB 52 29A	KD18DB BUSS
XA138	DCF	C2	26B	KD18LOX	00	=		
XA138	DCF	C2	27B	(47)	01		SPA2I2 49 27B	
XA513	TD4	F1	37A	PAUCTA	00	=		
XA513	TD4	F1	39B	(76)	01		CMP15A CMP8BQ CMP9BQ CMP7BQ 79 39B 77 38B 75 37B 78 38A	SET PT04 DATA
XA505	TQ2	A1	05A	PAUCTO	00	=		
XA505	TQ2	A1	07A	(06)	01		PAUCTA SPA141 10 07A 08 06A	PERFORM BIT AUCTION
XA501	TQ2	C2	15A	PA00CA	00	=		
XA501	TQ2	C2	17A	(30)	01		SPA139 PA00C0 36 17A 34 16A	
XA502	TS8	A1	05B	PA00C0	00	=		
XA502	TS8	A1	07A	(11)	01		DB16PA DB19PA DB21PA DB18PA DB20PA DB22PA DB23PA DB17PA 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	
XA505	TQ2	A2	02B	PA01CA	00	=		
XA505	TQ2	A2	04A	(01)	01		PA01C0 SPA141 04 04A 05 03B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA506	TD4	A1	05B		PA01CO	00	=		
XA506	TD4	A1	07A		(11)	01		DB19PA DB17PA DB16PA DB18PA 10 07A 08 06A 06 05A 13 06B	
XA506	TD4	A2	04B		PA01D0	00	=		
XA506	TD4	A2	04A		(09)	01		DB26PA DB24PA DB27PA DB25PA 04 04A 05 03B 01 02B 07 03A	
XA505	TQ2	A3	04B		PA01EA	00	=		
XA505	TQ2	A3	02A		(09)	01		SPA140 PA01E0 03 02A 07 03A	
XA506	TD4	B1	11B		PA01E0	00	=		
XA506	TD4	B1	14A		(23)	01		DB23PA DB20PA DB22PA DB21PA 26 14A 24 13A 22 12A 25 12B	
XA503	TQ2	A2	02B		PA01F0	00	=		
XA503	TQ2	A2	04A		(01)	01		PA01D0 PA01EA 04 04A 05 03B	
XA505	TQ2	A4	07B		PA02CA	00	=		
XA505	TQ2	A4	05B		(15)	01		PA02C0 SPA141 11 05B 13 06B	
XA503	TQ2	A3	04B		PA02C0	00	=		
XA503	TQ2	A3	02A		(09)	01		DB17PA DB16PA 03 02A 07 03A	
XA501	TQ2	A1	05A		PA02DA	00	=		
XA501	TQ2	A1	07A		(06)	01		SPA139 PA02D0 10 07A 08 06A	
XA503	TQ2	A4	07B		PA02D0	00	=		
XA503	TQ2	A4	05B		(15)	01		DB18PA DB19PA 11 05B 13 06B	
XA501	TQ2	A2	02B		PA02E0	00	=		
XA501	TQ2	A2	04A		(01)	01		DB20PA DB21PA 04 04A 05 03B	
XA503	TQ2	B1	12A		PA02FA	00	=		
XA503	TQ2	B1	14A		(22)	01		PA02E0 PA02DA 26 14A 24 13A	
XA503	TQ2	B2	09A		PA02GA	00	=		
XA503	TQ2	B2	11A		(14)	01		SPA140 PA02G0 20 11A 18 10A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERN	DESIG. FACTOR	FACTOR	COMMENT
XA501	TQ2	A3	04B	PA02G0	00	=		
XA501	TQ2	A3	02A	(09)	01		DB23PA DB22PA 03 02A 07 03A	
XA501	TQ2	A4	07B	PA02H0	00	=		
XA501	TQ2	A4	05B	(15)	01		DB24PA DB25PA 11 05B 13 06B	
XA504	TT3	A2	03A	PA02JA	00	=		
XA504	TT3	A2	03B	(07)	01		PA02GA PA02H0 PA02DA 05 03B 01 02B 03 02A	
XA503	TQ2	B3	10B	PA02KA	00	=		
XA503	TQ2	B3	08B	(21)	01		SPA140 PA02K0 17 08B 19 09B	
XA501	TQ2	B1	12A	PA02K0	00	=		
XA501	TQ2	B1	14A	(22)	01		DB27PA DB26PA 26 14A 24 13A	
XA503	TQ2	B4	13B	PA02L0	00	=		
XA503	TQ2	B4	11B	(27)	01		DB28PA DB29PA 23 11B 25 12B	
XA506	TD4	B2	10B	PA02MA	00	=		
XA506	TD4	B2	11A	(21)	01		PA02DA PA02KA PA02GA PA02LO 20 11A 18 10A 14 09A 19 09B	
XA501	TQ2	B2	09A	PA03CA	00	=		
XA501	TQ2	B2	11A	(14)	01		DB17PA DB18P0 20 11A 18 10A	
XA501	TQ2	B3	10B	PA03DA	00	=		
XA501	TQ2	B3	08B	(21)	01		SPA139 PA03D0 17 08B 19 09B	
XA503	TQ2	C1	18A	PA03D0	00	=		
XA503	TQ2	C1	20A	(38)	01		PA03CA DB16PA 42 20A 40 19A	
XA503	TQ2	C2	15A	PA03EA	00	=		
XA503	TQ2	C2	17A	(30)	01		PA03E0 SPA140 36 17A 34 16A	
XA501	TQ2	B4	13B	PA03E0	00	=		
XA501	TQ2	B4	11B	(27)	01		DB19PA DB17PA 23 11B 25 12B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
XA501	TQ2	C1	18A	PA03FA	00	=		
XA501	TQ2	C1	20A	(38)	01		PA03EA DB20P0 42 20A 40 19A	
XA503	TQ2	A1	05A	PA03GA	00	=		
XA503	TQ2	A1	07A	(06)	01		PA03G0 SPA140 10 07A 08 06A	
XA504	TT3	A3	07B	PA03G0	00	=		
XA504	TT3	A3	04B	(15)	01		DB21PA DB19PA DB17PA 09 04B 11 05B 13 06B	
XA501	TQ2	C3	16B	PA03HA	00	=		
XA501	TQ2	C3	14B	(33)	01		DB22P0 PA03GA 29 14B 31 15B	
XA501	TQ2	C4	19B	PA03JA	00	=		
XA501	TQ2	C4	17B	(39)	01		PA03J0 SPA139 35 17B 37 18B	
XA506	T04	C1	17B	PA03J0	00	=		
XA506	T04	C1	20A	(35)	01		DB17PA DB23PA DB21PA DB19PA 42 20A 40 19A 38 18A 37 18B	
XA503	TQ2	C3	16B	PA03KA	00	=		
XA503	TQ2	C3	14B	(33)	01		DB24P0 PA03JA 29 14B 31 15B	
XA504	TT3	B1	11A	PA03LA	00	=		
XA504	TT3	B1	14A	(20)	01		PA03JA DB25PA DB26P0 26 14A 24 13A 22 12A	
XA503	TQ2	C4	19B	PA03MA	00	=		
XA503	TQ2	C4	17B	(39)	01		SPA140 PA03M0 35 17B 37 18B	
XA501	TQ2	D1	24A	PA03M0	00	=		
XA501	TQ2	D1	26A	(52)	01		DB25PA DB27PA 56 26A 54 25A	
XA504	TT3	B2	09B	PA03NA	00	=		
XA504	TT3	B2	10A	(19)	01		DB28P0 PA03MA PA03JA 18 10A 14 09A 17 08B	
XA503	TQ2	D1	24A	PA03PA	00	=		
XA503	TQ2	D1	26A	(52)	01		SPA140 PA03P0 56 26A 54 25A	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA504	TT3	B3	13B		PA03P0	00	=		
XA504	TT3	B3	10B		(27 )	01		DB29PA DB27PA DB25PA 21 10B 23 11B 25 12B	
XA504	TT3	C1	17A		PA03QA	00	=		
XA504	TT3	C1	20A		(36 )	01		DB30P0 PA03PA PA03JA 42 20A 40 19A 38 18A	
XA503	TQ2	D2	21A		PB00CA	00	=		AUC CODE 00 BIT TO PT04
XA503	TQ2	D2	23A		(46 )	01		PAUCTO PA00CA 50 23A 48 22A	
XA504	TT3	C2	15B		PB01CA	00	=		AUC CODE 01 BIT TO PT05
XA504	TT3	C2	16A		(31 )	01		PAUCTO PA01CA PA01FO 34 16A 30 15A 29 14B	
XA404	TS8	F1	37A		PB02CA	00	=		AUC CODE 02 BIT TO PT06
XA404	TS8	F1	39B		(76 )	01		PA02MA PA02JA PA02FA SPA108 SPA106 SPA107 PA02CA PAUCTO 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA502	TS8	B1	11B		PB03CA	00	=		AUC CODE 03 BIT TO PT07
XA502	TS8	B1	14A		(23 )	01		PA03QA PA03KA PAUCTO PA03FA PA03HA PA03NA PA03DA PA03LA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA503	TQ2	D4	27B		PC02CA	00	=		PL02 GT PT02
XA503	TQ2	D4	25B		(51 )	01		PT02BP PL02BQ 47 25B 49 26B	
XA501	TQ2	F1	37B		PC02E0	00	=		PL02=PT02
XA501	TQ2	F1	39B		(75 )	01		PC02FA PC02GA 79 39B 77 38B	
XA503	TQ2	F1	37B		PC02FA	00	=		
XA503	TQ2	F1	39B		(75 )	01		PL02BQ PT02BQ 79 39B 77 38B	
XA503	TQ2	E1	31A		PC02GA	00	=		
XA503	TQ2	E1	33A		(66 )	01		PT02BP PL02BP 70 33A 68 32A	
XA504	TT3	D2	23B		PC03CA	00	=		PL03 GT PT03 AND PL02=PT02
XA504	TT3	D2	22A		(43 )	01		PT03BP PL03BQ PC02E0 48 22A 46 21A 41 22B	
XA501	TQ2	F2	34A		PC03E0	00	=		PL03=PT03
XA501	TQ2	F2	36B		(72 )	01		PC03FA PC03GA 73 36B 71 36A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA503	TQ2	F2	34A		PC03FA	00	=		
XA503	TQ2	F2	36B		(72)	01		PL03BQ PT03BQ 73 36B 71 36A	
XA503	TQ2	E2	28A		PC03GA	00	=		
XA503	TQ2	E2	30A		(60)	01		PT03BP PL03BP 64 30A 62 29A	
XA506	TD4	F2	35A		PC04CA	00	=		
XA506	TD4	F2	36B		(69)	01		PC03E0 PC02E0 PT04BP PLO4BQ 73 36B 71 36A 72 34A 74 35B	BITS 2,3 EQUAL: PL4 GT PT4
XA501	TQ2	F3	35A		PC04E0	00	=		
XA501	TQ2	F3	34B		(69)	01		PC04GA PC04FA 65 34B 74 35B	PL04=PT04
XA503	TQ2	F3	35A		PC04FA	00	=		
XA503	TQ2	F3	34B		(69)	01		PT04BQ PLO4BQ 65 34B 74 35B	
XA503	TQ2	E3	30B		PC04GA	00	=		
XA503	TQ2	E3	28B		(57)	01		PL04BP PT04BP 53 28B 55 29B	
XA502	TS8	F1	37A		PC05CA	00	=		
XA502	TS8	F1	39B		(76)	01		SPA141 SPA139 PC04E0 PC02E0 PC03E0 PT05BP PLO5BQ SPA140 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	BITS 2,3,4 EQUAL: PL5 GT PT5
XA501	TQ2	E1	31A		PC05HA	00	=		
XA501	TQ2	E1	33A		(66)	01		PLO5BQ PT05BP 70 33A 68 32A	PL05,PT05*
XA501	TQ2	E2	28A		PC05JA	00	=		
XA501	TQ2	E2	30A		(60)	01		PL05BP PT05BQ 64 30A 62 29A	PL05*,PT05
XA502	TS8	E1	31B		PC06CA	00	=		
XA502	TS8	E1	33A		(59)	01		PC02E0 PC03E0 PC04E0 SPA139 PT06BP PC05JA PLO6BQ PC05HA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	BITS 2,3,4,5 =: PL6 GT PT6
XA501	TQ2	F4	39A		PC06E0	00	=		
XA501	TQ2	F4	37A		(80)	01		PC06GA PC06FA 76 37A 78 38A	PL06=PT06
XA503	TQ2	F4	39A		PC06FA	00	=		
XA503	TQ2	F4	37A		(80)	01		PLO6BQ PT06BQ 76 37A 78 38A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA503	TQ2	E4	33B	PC06GA	00	H		
XA503	TQ2	E4	31B	(63)	01		PL06BP PT06BP 59 31B 61 32B	
XA502	TS8	D1	25B	PC07CA	00	=		BITS 2,3,4,5,6 =: PL7 GT PT7
XA502	TS8	D1	26A	(47)	01		PC05JA PC05HA PC02E0 PC04E0 PT07BP PLO7BQ PC03E0 PC06E0 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA504	TT3	E1	30A	PLCNLA	00	=		LOA 10000001111 BIN PL0009
XA504	TT3	E1	33A	(64)	01		CMQ3BP CMQ2BQ CMQ1BP 70 33A 68 32A 66 31A	
XA515	TT3	A1	04A	PLCPOA	00	=		LOA CNST-PL, DTR PT-PL CLK
XA515	TT3	A1	07A	(104)	01		CLOCLB CMQ1BP CMQ2BQ 10 07A 08 06A 06 05A	
XA501	TQ2	D3	24B	PLCP1A	00	=		
XA501	TQ2	D3	22B	(145)	01		PLCP40 CLOCLB 41 22B 43 23B	
XA515	TT3	A2	03A	PLCP2A	00	=		LOA CNST-PL, DTR PT-PL CLK
XA515	TT3	A2	03B	(107)	01		CMQ2BQ CMQ1BP CLOCLB 05 03B 01 02B 03 02A	
XA501	TQ2	D2	21A	PLCP3A	00	=		
XA501	TQ2	D2	23A	(146)	01		CMQ2BQ CMQ1BP 50 23A 48 22A	
XA527	TQ2	F1	37B	PLCP40	00	=		SET CN13 QUAL BY ADSE
XA527	TQ2	F1	39B	(175)	01		C524FA PLCP3A 79 39B 77 38B	
XA504	TT3	E2	29B	PLDBTA	00	=		BLO PLO207DB2631 APOL
XA504	TT3	E2	29A	(155)	01		CMQ3BQ CMQ2BP CMQ1BP 62 29A 60 28A 53 28B	
XA505	TQ2	E3	30B	PLDBTO	00	=		BLO PLO207DB2631 OPOL
XA505	TQ2	E3	28B	(157)	01		PLDBTA SPA142 53 28B 55 29B	
XA508	TS8	D1	25B	PLE1QA	00	=		PLE1.(L7)
XA508	TS8	D1	26A	(147)	01		PLO7BQ CG7SC0 SPA145 PLO6BP PLO4BP PLO3BP PLO2BP PLO5BP 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA508	TS8	C1	17B	PLE2CA	00	=		PROG LEVEL IS 02
XA508	TS8	C1	20A	(135)	01		PLO4BP PLO5BP PLO3BP PLO7BP SPA144 SPA143 PLO6Q0 PLO2BP 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	

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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA507	TQ2	C1 18A	PLE2CO	00 =			
XA507	TQ2	C1 20A	(38)	01		SPA142 PLE2CA 42 20A 40 19A	
XA502	TS8	C1 17B	PLE3CA	00 =			
XA502	TS8	C1 20A	(35)	01		PL03BP PL07BQ PL06Q0 PL02BP SPA140 SPA139 PLO5BP PLO4BP 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	ACTV PROG LEVEL IS 03
XA505	TQ2	D1 24A	PLE3CO	00 =			
XA505	TQ2	D1 26A	(52)	01		SPA142 PLE3CA 56 26A 54 25A	
XA507	TQ2	A1 05A	PLPRVA	00 =			
XA507	TQ2	A1 07A	(06)	01		PL00BQ PL01BP 10 07A 08 06A	PROGRAM LEVEL PRIVILEGED
XA504	TT3	A1 04A	PLPR20	00 =			
XA504	TT3	A1 07A	(04)	01		ES0TBP PLPRVA UL02IB 10 07A 08 06A 06 05A	DTR PR0003PT0407. AUCTION
XA504	TT3	E3 33B	PLPTDA	00 =			
XA504	TT3	E3 30B	(63)	01		CMQ1BP CMQ3BQ CMQ2BQ 57 30B 59 31B 61 32B	DTR PT0009PI0009
XA505	TQ2	E4 33B	PLPTD0	00 =			
XA505	TQ2	E4 31B	(63)	01		PLPTDA SPA142 59 31B 61 32B	XFER TENT LEV TO ACTV LEV REG
XA507	TQ2	A2 02B	PLSPRA	00 =			
XA507	TQ2	A2 04A	(01)	01		PLO0BP PLO1BQ 04 04A 05 03B	PROG LEVEL SEMI-PRIVILEGED
XA518	TDD	E1 19A	PL00B1	00 =			
XA518	TDD	E1 19A	( )	01		PLO090 40 19A	
XA518	TDD	EN 20A	PL00BN	00 =			
XA518	TDD	EN 20A	( )	01		PLCPOA 42 20A	
XA518	TDD	EP 17B	PL00BP	00 =			
XA518	TDD	EP 18A	(35)	01		SPA150 38 18A	
XA518	TDD	EQ 18B	PL00BQ	00 =			
XA518	TDD	EQ 19B	(37)	01		PLO0RA 39 19B	PI REG MASTER RESET TO

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA505	TQ2	D2	21A	PL00RA	00	=		INITIALIZE PRIV
XA505	TQ2	D2	23A	(46)	01		PL00R0 SPA141 50 23A 48 22A	
XA507	TQ2	D1	24A	PL00R0	00	=		PRIV OVRIDE/ MASTER RSET
XA507	TQ2	D1	26A	(52)	01		OPVORB J3RES0 56 26A 54 25A	
XA507	TQ2	D2	21A	PL001A	00	=		PT00 TO PLO0
XA507	TQ2	D2	23A	(46)	01		PLPT00 PT00BQ 50 23A 48 22A	
XA505	TQ2	D3	24B	PL0090	00	=		SET PLO0 DATA
XA505	TQ2	D3	22B	(45)	01		PLCNLA PLO01A 41 22B 43 23B	
				PL01BI	00	=		
XA518	TDD	FI	16A	( )	01		PL0190 34 16A	
				PL01BN	00	=		
XA518	TDD	FN	15A	( )	01		PLCP0A 30 15A	
XA518	TDD	FP	16B	PL01BP	00	=		
XA518	TDD	FP	17A	(33)	01		PL00RA 36 17A	
XA518	TDD	FQ	15B	PL01BQ	00	=		
XA518	TDD	FQ	14B	(31)	01		SPA151 29 14B	
				PL011A	00	=		PT01 TO PLO1
XA507	TQ2	D3	24B	(45)	01		PLPT00 PT01BQ 41 22B 43 23B	
XA505	TQ2	D4	27B	PL0190	00	=		SET PLO1 DATA
XA505	TQ2	D4	25B	(51)	01		PL011A SPA142 47 25B 49 26B	
				PL02BI	00	=		
XA518	TDD	GI	25A	( )	01		PL0290 54 25A	
				PL02BN	00	=		
XA518	TDD	GN	26A	( )	01		PLCP2A 56 26A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA518	TDD	GP	25B	PL02BP	00	=		
XA518	TDD	GP	24A	(47)	01		J3RESO 52 24A	
XA518	TDD	GQ	26B	PL02BQ	00	=		
XA518	TDD	GQ	27B	(49)	01		SPA151 51 27B	
XA507	TQ2	D4	27B	PL02Q0	00	=		UNLOAD PL02BQ
XA507	TQ2	D4	25B	(51)	01		PL02BP SPA142 47 25B 49 26B	
XA507	TQ2	C2	15A	PL021A	00	=		PT02 TO PL02
XA507	TQ2	C2	17A	(30)	01		PT02BQ PLPTD0 36 17A 34 16A	
XA505	TQ2	C1	18A	PL0290	00	=		SET PL02 DATA
XA505	TQ2	C1	20A	(38)	01		SPA141 PL021A 42 20A 40 19A	
XA518	TDD	HI	22A	PL03BI	00	=		
XA518	TDD	HI	22A	( )	01		PL0390 48 22A	
XA518	TDD	HN	21A	PL03BN	00	=		
XA518	TDD	HN	21A	( )	01		PLCP2A 46 21A	
XA518	TDD	HP	24B	PL03BP	00	=		
XA518	TDD	HP	23A	(45)	01		J3RESO 50 23A	
XA518	TDD	HQ	23B	PL03BQ	00	=		
XA518	TDD	HQ	22B	(43)	01		SPA151 41 22B	
XA505	TQ2	C2	15A	PL03Q0	00	=		UNLOAD PL03BQ
XA505	TQ2	C2	17A	(30)	01		PL03BP SPA141 36 17A 34 16A	
XA507	TQ2	C3	16B	PL031A	00	=		PT03 TO PL03
XA507	TQ2	C3	14B	(33)	01		PLPTD0 PT03BQ 29 14B 31 15B	
XA505	TQ2	C3	16B	PL0390	00	=		
XA505	TQ2	C3	14B	(33)	01		PL031A SPA141 29 14B 31 15B	

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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA518	TDD	J1 32A	PL048I ( )	00 =	01	PL0490 68 32A	
XA518	TDD	JN 33A	PL048N ( )	00 =	01	PLCP2A 70 33A	
XA518	TDD	JP 31B	PL048P (59 )	00 =	01	J3RES0 66 31A	
XA518	TDD	JQ 32B	PL048Q (61 )	00 =	01	SPA15I 63 33B	
XA507	TQ2	C4 19B	PL041A (39 )	00 =	01	PT04BQ PLPTD0 35 17B 37 18B	PT04 TO PL04
XA505	TQ2	C4 19B	PL0490 (39 )	00 =	01	PL041A SPA14I 35 17B 37 18B	
XA518	TDD	K1 29A	PL058I ( )	00 =	01	PL0590 62 29A	
XA518	TDD	KN 28A	PL058N ( )	00 =	01	PLCP2A 60 28A	
XA518	TDD	KP 30B	PL058P (57 )	00 =	01	J3RES0 64 30A	
XA518	TDD	KQ 29B	PL058Q (55 )	00 =	01	SPA15I 53 28B	
XA507	TQ2	B1 12A	PL051A (22 )	00 =	01	PT05BQ PLPTD0 26 14A 24 13A	PT05 TO PL05
XA505	TQ2	B1 12A	PL0590 (22 )	00 =	01	SPA14I PL051A 26 14A 24 13A	SET PL05 DATA

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CONNECTOR	UNIT ASSEMBLY NAME	CARD CAGE ASSY, CPU R.H.	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
			PL06BI	00 =			
XA518	TDD LI 38B		( )	01	PL0690 77 38B		
			PL06BN	00 =			
XA518	TDD LN 39B		( )	01	PLCP2A 79 39B		
XA518	TDD LP 37A		PL06BP	00 =			
XA518	TDD LP 37B		(76 )	01	J3RESO 75 37B		
XA518	TDD LQ 38A		PL06BQ	00 =			
XA518	TDD LQ 39A		(78 )	01	SPA151 80 39A		
XA507	TQ2 A3 04B		PL06Q0	00 =			
XA507	TQ2 A3 02A		(09 )	01	SPA142 PL06BP 03 02A 07 03A	PL06BQ- UNLOAD	
XA507	TQ2 B2 09A		PL061A	00 =			
XA507	TQ2 B2 11A		(14 )	01	PT06BQ PLPT00 20 11A 18 10A	PT06 TO PL06	
XA505	TQ2 B2 09A		PL0690	00 =			
XA505	TQ2 B2 11A		(14 )	01	PLCNLA PL061A 20 11A 18 10A	SET PL06 DATA	
			PL07BI	00 =			
XA518	TDD MI 36A		( )	01	PL0790 71 36A		
			PL07BN	00 =			
XA518	TDD MN 34A		( )	01	PLCP2A 72 34A		
XA518	TDD MP 35A		PL07BP	00 =			
XA518	TDD MP 36B		(69 )	01	SPA150 73 36B		
XA518	TDD MQ 35B		PL07BQ	00 =			
XA518	TDD MQ 34B		(74 )	01	J3RESO 65 34B		
XA507	TQ2 B3 10B		PL071A	00 =			
XA507	TQ2 B3 08B		(21 )	01	PLPT00 PT07BQ 17 08B 19 09B	PT07 TO PL07	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA505	TQ2	B3	10B	PL0790	00	=		SET PLO7 DATA
XA505	TQ2	B3	08B	(21)	01		PL071A PLCNLA 17 08B 19 09B	
				PL08BI	00	=		
XA517	TDD	LI	38B	( )	01		PL0890 77 38B	
				PL08BN	00	=		
XA517	TDD	LN	39B	( )	01		PLCP1A 79 39B	
XA517	TDD	LP	37A	PL08BP	00	=		
XA517	TDD	LP	37B	(76)	01		J3RES0 75 37B	
XA517	TDD	LQ	38A	PL08BQ	00	=		
XA517	TDD	LQ	39A	(78)	01		SPA149 80 39A	
XA507	TQ2	B4	13B	PL081A	00	=		PT09 TO PLO8
XA507	TQ2	B4	11B	(27)	01		PLPT00 PT08BQ 23 11B 25 12B	
XA501	TQ2	D4	27B	PL088A	00	=		
XA501	TQ2	D4	25B	(51)	01		C523F0 0B24P0 47 25B 49 26B	
XA401	TT3	F1	36B	PL0890	00	=		E3.(INSTR,QUAL),MAQR
XA401	TT3	F1	39B	(73)	01		PL088A PLCNLA PLO81A 79 39B 77 38B 75 37B	
				PL09BI	00	=		
XA517	TDD	MI	36A	( )	01		PL0990 71 36A	
				PL09BN	00	=		
XA517	TDD	MN	34A	( )	01		PLCP1A 72 34A	
XA517	TDD	MP	35A	PL09BP	00	=		
XA517	TDD	MP	36B	(69)	01		J3RES0 73 36B	
XA517	TDD	MQ	35B	PL09BQ	00	=		
XA517	TDD	MQ	34B	(74)	01		SPA149 65 34B	

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CONNECTOR	URFC TYPE	GR. NO.	POINTS AND/OR	EQUATION	TERM.	DESG. RATIO	FACTOR	COMMENT
XA504	TT3	D3	27B	PL091A	00	=		
XA504	TT3	D3	24B	(51)	01		CQP01A PT09BQ PLPTDO 45 24B 47 25B 49 26B	PT09 TO PL09
XA505	TQ2	B4	13B	PL099A	00	=		
XA505	TQ2	B4	11B	(27)	01		C523F0 DB25P0 23 11B 25 12B	SET PL09 DATA
XA507	TQ2	A4	07B	PL0990	00	=		
XA507	TQ2	A4	05B	(15)	01		PL091A PL099A 11 05B 13 06B	SET PL09 DATA
XA516	TQ2	B3	10B	PMASPA	00	=		
XA516	TQ2	B3	08B	(21)	01		MMA5P0 SPA148 17 08B 19 09B	MASP- APOI
XA516	TQ2	A1	05A	PQCP0A	00	=		
XA516	TQ2	A1	07A	(06)	01		CLOCLB PQCO5A 10 07A 08 06A	PQ00-05 CLOCK APOI
XA515	TT3	A3	07B	PQCP6A	00	=		
XA515	TT3	A3	04B	(15)	01		PQ06C0 CLOCLB PQCO5A 09 04B 11 05B 13 06B	PQ06-09 GATED CLOCK
XA516	TQ2	A2	02B	PQCP7A	00	=		
XA516	TQ2	A2	04A	(01)	01		PQ10C0 CLOCLB 04 04A 05 03B	PQ10-15 GATED CLOCK
XA516	TQ2	A3	04B	PQCP8A	00	=		
XA516	TQ2	A3	02A	(09)	01		PQ16C0 CLOCLB 03 02A 07 03A	PQ16 GATED CLOCK
XA514	TQ2	A1	05A	PQCO5A	00	=		
XA514	TQ2	A1	07A	(06)	01		PQ08UA PQCO20 10 07A 08 06A	INHIBIT CLK FOR PQ0609
XA512	TS8	A1	05B	PQCO20	00	=		
XA512	TS8	A1	07A	(11)	01		PQ00BP PQ01BP PQ05BP PQ03BP PQ04BP PQ02BP SPA145 SPA146 10 07A 08 06A 06 05A 04 04A 05 03B 01 02B 07 03A 13 06B	QUERY REG BITS 00-06 NON-ZERO
XA515	TT3	B1	11A	PQDBCA	00	=		
XA515	TT3	B1	14A	(20)	01		CMP5BP CMP6BQ CMP48P 26 14A 24 13A 22 12A	B10 PQ0015DB0015 APOI
XA514	TQ2	A2	02B	PQDBCO	00	=		
XA514	TQ2	A2	04A	(01)	01		SPA146 PQDBCA 04 04A 05 03B	B10 PQ0015DB0015 OPOL

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM.	DESIGNATOR	FACTOR	COMMENT
XA514	TQ2	A3	04B	PQDBD0	00	=		BLO PQ0015DB0015 UNLOAD
XA514	TQ2	A3	02A	(09)	01		SPA146 PQDBCA 03 02A 07 03A	
XA514	TQ2	A4	07B	PQDBE0	00	=		BLO PQ0015DB0015 UNLOAD
XA514	TQ2	A4	05B	(15)	01		SPA146 PQDBCA 11 05B 13 06B	
XA515	TT3	B2	09B	PQDBLA	00	=		BLO PQ0015DB1631 APOL
XA515	TT3	B2	10A	(19)	01		CMP48P CMP68P CMP58Q 18 10A 14 09A 17 08B	
XA514	TQ2	B1	12A	PQDBL0	00	=		BLO PQ0015DB1631 OPOL
XA514	TQ2	B1	14A	(22)	01		SPA147 PQDBL <sup>4</sup> 26 14A 24 13A	
XA514	TQ2	B2	09A	PQDBM0	00	=		BLO PQ0015DB1631 UNLOAD
XA514	TQ2	B2	11A	(14)	01		SPA147 PQDBLA 20 11A 18 10A	
XA514	TQ2	B3	10B	PQDBN0	00	=		BLO PQ0015DB1631 UNLOAD
XA514	TQ2	B3	08B	(21)	01		SPA146 PQDBLA 17 08B 19 09B	
XA515	TT3	B3	13B	PQDBTA	00	=		BTR DB0015PG0015 APOL
XA515	TT3	B3	10B	(27)	01		CMP58P CMP68P CMP48Q 21 10B 23 11B 25 12B	
XA514	TQ2	B4	13B	PQDBT0	00	=		BTR DB0015PQ0015 OPOL
XA514	TQ2	B4	11B	(27)	01		SPA147 PQDBTA 23 11B 25 12B	
XA516	TQ2	B4	13B	PQDBUA	00	=		BTR DB0015PQ0015 UNLOAD
XA516	TQ2	B4	11B	(27)	01		SPA148 PQDBU0 23 11B 25 12B	
XA514	TQ2	C1	18A	PQDBU0	00	=		BTR DB0015PQ0015 UNLOAD
XA514	TQ2	C1	20A	(38)	01		SPA148 PQDBTA 42 20A 40 19A	
XA514	TQ2	C2	15A	PQDBV0	00	=		BTR DB0015PQ0015 UNLOAD
XA514	TQ2	C2	17A	(30)	01		PQDBTA SPA147 36 17A 34 16A	
XA527	TQ2	E2	28A	PQFECO	00	=		SET PQ00-FETCH,QUAL
XA527	TQ2	E2	30A	(60)	01		PQFETA PQFESA 64 30A 62 29A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA515	TT3	C1	17A	PQFESA	00 =			
XA515	TT3	C1	20A	(36)	01		CMP3BQ CMP1BQ CMP2BQ 42 20A 40 19A 38 18A	FEICH INSTR ERROR CHECK
XA516	TQ2	C1	18A	PQFESO	00 =			
XA516	TQ2	C1	20A	(38)	01		SPA149 PQFESA 42 20A 40 19A	SET PQ00.02.05 QUAL IN FEICH
XA530	TT3	C3	19B	PQFETA	00 =			
XA530	TT3	C3	16B	(39)	01		CMP1BQ PQ00SA CM0D30 33 16B 35 17B 37 18B	SET PQ00-FEICH INDIR ADDR
XA516	TQ2	C2	15A	PQMPED	00 =			
XA516	TQ2	C2	17A	(30)	01		PQ00BP PQ01BP 36 17A 34 16A	CPU MEM PAR ERROR TO ID
XA515	TT3	C2	15B	PQPLDA	00 =			
XA515	TT3	C2	16A	(31)	01		CMP5BP CMP4BQ CMP6BQ 34 16A 30 15A 29 14B	DTR PLO20ZPQ1015, M CODE 101
XA516	TQ2	C3	16B	PQPLDQ	00 =			
XA516	TQ2	C3	14B	(33)	01		SPA149 PQPLDA 29 14B 31 15B	
				PQ00BI	00 =			
XA523	TDD	MI	36A	( )	01		PQ0090 71 36A	
				PQ00BN	00 =			
XA523	TDD	MN	34A	( )	01		PQCPOA 72 34A	
XA523	TDD	MP	35A	PQ00BP	00 =			
XA523	TDD	MP	36B	(69)	01		J3RESQ 73 36B	
XA523	TDD	MQ	35B	PQ00BQ	00 =			
XA523	TDD	MQ	34B	(74)	01		SPA154 65 34B	
XA516	TQ2	C4	19B	PQ00SA	00 =			
XA516	TQ2	C4	17B	(39)	01		CQEXQO CMP1BQ 35 17B 37 18B	SET PQ00-INS EXE, ENA DATA
XA514	TQ2	C3	16B	PQ00SQ	00 =			
XA514	TQ2	C3	14B	(33)	01		SPA147 PQ00SA 29 14B 31 15B	SET PQ00 IN INS EXE

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA525	TD4	F1	37A	PQ001A	00	=		MMPE SET PQ00- INSTR EXE
XA525	TD4	F1	39B	(76)	01		PQ00S0 MMPEEO UMPEIB MMPEEO 79 39B 77 38B 75 37B 78 38A	
XA512	TS8	B1	11B	PQ002A	00	=		MASP*,MMPE- INSTR FETCH
XA512	TS8	B1	14A	(23)	01		SPA147 SPA146 SPA145 MMPEEO UMPEIB POFECO MMPEEO MMASPA 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA516	TQ2	D1	24A	PQ003A	00	=		DB00 TO PQ00
XA516	TQ2	D1	26A	(52)	01		PQDBT0 DB00P0 56 26A 54 25A	
XA510	TT3	B1	11A	PQ004A	00	=		HOLD PQ00
XA510	TT3	B1	14A	(20)	01		PQDBTA PQ00BQ SPA152 26 14A 24 13A 22 12A	
XA513	TD4	A1	05B	PQ0090	00	=		SET PQ00 DATA
XA513	TD4	A1	07A	(11)	01		PQ004A PQ002A PQ001A PQ003A 10 07A 08 06A 06 05A 13 06B	
XA519	TDD	A1	06A	PQ018I	00	=		
XA519	TDD	A1	06A	( )	01		PQ0190 08 06A	
XA519	TDD	AN	07A	PQ018N	00	=		
XA519	TDD	AN	07A	( )	01		PQCPOA 10 07A	
XA519	TDD	AP	05B	PQ018P	00	=		
XA519	TDD	AP	05A	(11)	01		J3RES0 06 05A	
XA519	TDD	AQ	06B	PQ018Q	00	=		
XA519	TDD	AQ	07B	(13)	01		SPA151 15 07B	
XA515	TT3	C3	19B	PQ010A	00	=		SET PQ01 MOP CODE 001
XA515	TT3	C3	16B	(39)	01		CMP28P CMP18P CMP38Q 33 16B 35 17B 37 18B	
XA514	TQ2	C4	19B	PQ0100	00	=		
XA514	TQ2	C4	17B	(39)	01		SPA147 PQ010A 35 17B 37 18B	
XA513	TD4	A2	04B	PQ011A	00	=		MMPE SEL LEV CHNG
XA513	TD4	A2	04A	(09)	01		UMPEIB PQ0100 MMPEEO MMPEEO 04 04A 05 03B 01 02B 07 03A	

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CONNECTOR	CIRCUIT TYPE	GROUP	POINTS AND/OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA516	TQ2	D2	21A	PQ012A	00	=		
XA516	TQ2	D2	23A	(46)	01		PQDBTO DB01P0 50 23A 48 22A	DB01 TO PQ01
XA510	TT3	D1	23A	PQ013A	00	=		
XA510	TT3	D1	26A	(50)	01		SPA152 PQDBTA PQ01BQ 56 26A 54 25A 52 24A	HOLD PQ01
XA515	TT3	D1	23A	PQ0190	00	=		
XA515	TT3	D1	26A	(50)	01		PQ012A PQ013A PQ011A 56 26A 54 25A 52 24A	SET PQ01 DATA
				PQ028I	00	=		
XA519	TDD	BI	03B	( )	01		PQ0290 05 03B	
				PQ028N	00	=		
XA519	TDD	BN	02B	( )	01		PQCPOA 01 02B	
XA519	TDD	BP	04B	PQ028P	00	=		
XA519	TDD	BP	04A	(09)	01		J3RES0 04 04A	
XA519	TDD	BQ	03A	PQ028Q	00	=		
XA519	TDD	BQ	02A	(07)	01		SPA151 03 02A	
XA514	TQ2	D1	24A	PQ02PA	00	=		
XA514	TQ2	D1	26A	(52)	01		PLPRVA CPRINO 56 26A 54 25A	PRIN. (P100, P101)*
XA515	TT3	D2	23B	PQ02SA	00	=		
XA515	TT3	D2	22A	(43)	01		CSPINO PLSpra PLPRVA 48 22A 46 21A 41 22B	SPIN. (P100=P101)
XA516	TQ2	D3	24B	PQ02T0	00	=		
XA516	TQ2	D3	22B	(45)	01		PQ02SA PQ02PA 41 22B 43 23B	PRIN OR SPIN VIOLATION
XA514	TQ2	D2	21A	PQ021A	00	=		
XA514	TQ2	D2	23A	(46)	01		PQFES0 PQ02T0 50 23A 48 22A	
XA516	TQ2	D4	27B	PQ022A	00	=		
XA516	TQ2	D4	25B	(51)	01		DB02P0 PQDBTO 47 25B 49 26B	DB02 TO PQ02

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	TEST POINTS AND/OR	FACTOR	COMMENT
XA504	TT3	D1	23A	PQ023A	00	=		HOLD PQ02
XA504	TT3	D1	26A	(50)	01		PQ0BTA SPA152 PQ02BQ 56 26A 54 25A 52 24A	
XA512	TS8	E1	31B	PQ024A	00	=		MASP*.MAGR*. [P100.P101]* SET
XA512	TS8	E1	33A	(59)	01		CQEXQ0 MMAGRA SPA147 SPA146 PLPRVA PQ03D0 MMASPO CQP080 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA513	TD4	F2	35A	PQ0290	00	=		SET PT05 DATA
XA513	TD4	F2	36B	(69)	01		PQ021A PQ023A PQ022A PQ024A 73 36B 71 36A 72 34A 74 35B	
XA519	TDD	C1	13A	PQ03BI	00	=		
XA519	TDD	C1	13A	( )	01		PQ0390 24 13A	
XA519	TDD	CN	14A	PQ03BN	00	=		
XA519	TDD	CN	14A	( )	01		PQCP0A 26 14A	
XA519	TDD	CP	11B	PQ03BP	00	=		
XA519	TDD	CP	12A	(23)	01		J3RES0 22 12A	
XA519	TDD	CQ	12B	PQ03BQ	00	=		
XA519	TDD	CQ	13B	(25)	01		SPA153 27 13B	
XA514	TQ2	D3	24B	PQ03DA	00	=		SET PQ03 MOP CODE 01X
XA514	TQ2	D3	22B	(45)	01		CMP2BQ CMP18P 41 22B 43 23B	
XA516	TQ2	E1	31A	PQ03D0	00	=		SET PQ03 ENABLE
XA516	TQ2	E1	33A	(66)	01		SPA149 PQ03DA 70 33A 68 32A	
XA516	TQ2	E2	28A	PQ03VA	00	=		MB00*.MB01* - APDL
XA516	TQ2	E2	30A	(60)	01		PQ03X0 PQ03W0 64 30A 62 29A	
XA514	TQ2	D4	27B	PQ03W0	00	=		MB00*
XA514	TQ2	D4	25B	(51)	01		MB00C0 SPA148 47 25B 49 26B	
XA514	TQ2	E1	31A	PQ03X0	00	=		MB01*
XA514	TQ2	E1	33A	(66)	01		SPA148 MB01C0 70 33A 68 32A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERMS	DEFINITION	FACTOR	COMMENT
XA512	TS8	C1	17B	PQ031A	00 =			MASP*(MB00,MB01) SELECTED
XA512	TS8	C1	20A	(35)	01		PQ03D0 CQEXQ0 SPA146 SPA145 M800C0 PMASPA M801C0 CQP060 42 20A 40 19A 38 18A 36 17A 34 16A 30 15A 31 15B 37 18B	
XA512	TS8	D1	25B	PQ032A	00 =			MASP*(MB00*,MB01*)* SET
XA512	TS8	D1	26A	(47)	01		CQEXQ0 PQ03D0 PQ03VA SPA147 SPA146 SPA145 CQP070 PMASPA 56 26A 54 25A 52 24A 50 23A 48 22A 46 21A 43 23B 49 26B	
XA504	TT3	F3	39A	PQ033A	00 =			AUCTION IF AC2R
XA504	TT3	F3	35A	(80)	01		CF04C0 CM0030 M801C0 69 35A 76 37A 78 38A	
XA505	TQ2	F4	39A	PQ0340	00 =			UNQUAL AUCTION
XA505	TQ2	F4	37A	(80)	01		CF02CA PQ033A 76 37A 78 38A	
XA513	TD4	B1	11B	PQ035A	00 =			MASP*,MB00 SEL. FETCH
XA513	TD4	B1	14A	(23)	01		PMASPA PQ03D0 PQ0340 M800C0 26 14A 24 13A 22 12A 25 12B	
XA516	TQ2	E3	30B	PQ036A	00 =			DB03 TO PQ03
XA516	TQ2	E3	28B	(57)	01		DB03P0 PQ08T0 53 28B 55 29B	
XA514	TQ2	E2	28A	PQ037A	00 =			HOLD PQ03
XA514	TQ2	E2	30A	(60)	01		PQ08TA PQ038Q 64 30A 62 29A	
XA508	TS8	F1	37A	PQ0390	00 =			SET PQ03 DATA
XA508	TS8	F1	39B	(76)	01		SPA144 SPA143 SPA161 PQ037A PQ032A PQ036A PQ031A PQ035A 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA519	TDD	DI	10A	PQ04BI	00 =			
XA519	TDD	DI	10A	( )	01		PQ0490 18 10A	
XA519	TDD	DN	09A	PQ048N	00 =			
XA519	TDD	DN	09A	( )	01		PQCPOA 14 09A	
XA519	TDD	DP	10B	PQ04BP	00 =			
XA519	TDD	DP	11A	(21)	01		J3RES0 20 11A	
XA519	TDD	DQ	09B	PQ048Q	00 =			
XA519	TDD	DQ	08B	(19)	01		SPA151 17 08B	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM DESIGNATION	FACTOR	COMMENT
XA514	TQ2	E3	30B	PQ04CA	00 =		MTQ CHK EXCEPT IN ATES
XA514	TQ2	E3	28B	(57)	01	ESOTCA PQ04D0 53 28B 55 29B	
XA516	TQ2	E4	33B	PQ04D0	00 =		MEMORY CYCLE MRR,MRM,OR MCI
XA516	TQ2	E4	31B	(63)	01	CMM08P SPA149 59 31B 61 32B	
XA514	TQ2	E4	33B	PQ041A	00 =		MEMORY TIME OUT
XA514	TQ2	E4	31B	(63)	01	PQ04D0 MMT0T0 59 31B 61 32B	
XA516	TQ2	F1	37B	PQ042A	00 =		DB04 TO PQ04
XA516	TQ2	F1	39B	(75)	01	DB04P0 PQ08T0 79 39B 77 38B	
XA510	TT3	D3	27B	PQ043A	00 =		HOLD PQ04
XA510	TT3	D3	24B	(51)	01	SPA152 PQ04B0 PQ08TA 45 24B 47 25B 49 26B	
XA515	TT3	E1	30A	PQ0490	00 =		SET PQ04 DATA
XA515	TT3	E1	33A	(64)	01	PQ042A PQ043A PQ041A 70 33A 68 32A 66 31A	
XA519	TDD	E1	19A	PQ058I	00 =		
				( )	01	PQ0590 40 19A	
XA519	TDD	EN	20A	PQ058N	00 =		
				( )	01	PQCP0A 42 20A	
XA519	TDD	EP	17B	PQ058P	00 =		
XA519	TDD	EP	18A	(35)	01	J3RES0 38 18A	
XA519	TDD	EQ	18B	PQ058Q	00 =		
XA519	TDD	EQ	19B	(37)	01	SPA153 39 19B	
XA515	TT3	E2	29B	PQ05DA	00 =		SET PQ05 (AND PQ03)
XA515	TT3	E2	29A	(55)	01	CMP38Q CMP28Q CMP18P 62 29A 60 28A 53 28B	
XA514	TQ2	F1	37B	PQ05D0	00 =		
XA514	TQ2	F1	39B	(75)	01	SPA148 PQ05DA 79 39B 77 38B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA513	TD4	B2	10B	PQ051A	00	=		
XA513	TD4	B2	11A	(21)	01	=	MMASPO PQ05D0 CQP110 MMAGRA 20 11A 18 10A 14 09A 19 09B	MASP.MAGR* SELECTED
XA515	TT3	E3	33B	PQ052A	00	=		
XA515	TT3	E3	30B	(63)	01	=	CMONAO PQFES0 CCMOEO 57 30B 59 31B 61 32B	MOD0.MONA SEI
XA512	TS8	F1	37A	PQ053A	00	=		
XA512	TS8	F1	39B	(76)	01	=	SPA147 SPA146 MMAQTA MMAGRA C133C0 MMASPO COEX00 PQ0500 79 39B 77 38B 75 37B 73 36B 71 36A 72 34A 74 35B 78 38A	
XA516	TQ2	F2	34A	PQ054A	00	=		
XA516	TQ2	F2	36B	(72)	01	=	PQDBT0 DB05P0 73 36B 71 36A	DB05 TO PQ05
XA513	TD4	C1	17B	PQ055A	00	=		
XA513	TD4	C1	20A	(35)	01	=	SPA155 PQDBTA SPA152 PQ05BQ 42 20A 40 19A 38 18A 37 18B	HOLD PQ05
XA507	TQ2	E1	31A	PQ056A	00	=		
XA507	TQ2	E1	33A	(66)	01	=	PQ0560 SPI053 70 33A 68 32A	
XA509	TQ2	F3	35A	PQ0560	00	=		
XA509	TQ2	F3	34B	(69)	01	=	PQ054A PQ055A 65 34B 74 35B	
XA506	TD4	C2	16B	PQ0590	00	=		
XA506	TD4	C2	17A	(33)	01	=	PQ053A PQ052A PQ051A PQ056A 36 17A 34 16A 30 15A 31 15B	SET PQ05 DATA
				PQ06BI	00	=		
XA519	TDD	FI	16A	( )	01	=	PQ0690 34 16A	
				PQ06BN	00	=		
XA519	TDD	FN	15A	( )	01	=	PQCP6A 30 15A	
XA519	TDD	FP	16B	PQ06BP	00	=		
XA519	TDD	FP	17A	(33)	01	=	SPI047 36 17A	
XA519	TDD	FQ	15B	PQ06BQ	00	=		
XA519	TDD	FQ	14B	(31)	01	=	SPA153 29 14B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
XA508	TS8	A1	05B		PQ06C0	00	=		SET PQ06-09 OR BTR CLK ENA
XA508	TS8	A1	07A		(11)	01		PQFESA PQ05DA PQ03DA PQ0IDA PQDBUA SPA143 PQ04CA CMP1BP 10 07A 08 06A 06 05A 04 04A 05 03R 01 02B 07 03A 13 06B	
XA508	TS8	B1	11B		PQ06D0	00	=		PRIV VIO QTR MA0003PQ0609
XA508	TS8	B1	14A		(23)	01		PQ035A PQ051A PQ052A PQ031A PQ024A PQ053A PQ021A PQ032A 26 14A 24 13A 22 12A 20 11A 18 10A 14 09A 19 09B 25 12B	
XA514	TQ2	F2	34A		PQ06E0	00	=		SET PQ00/SET PQ01
XA514	TQ2	F2	36B		(72)	01		PQ0IDA CMP1BP 73 36B 71 36A	
XA516	TQ2	F3	35A		PQ06FA	00	=		SET PQ00/01 UNLESS INH PAR ER
XA516	TQ2	F3	34B		(69)	01		UMPE1B PQ06E0 65 34B 74 35B	
XA514	TQ2	F3	35A		PQ06F0	00	=		TRF MA0003 TO PQ0609
XA514	TQ2	F3	34B		(69)	01		SPA14B PQ06FA 65 34B 74 35B	
XA514	TQ2	F4	39A		PQ06M0	00	=		MA00-D FLD BIT 00
XA514	TQ2	F4	37A		(80)	01		MA00BQ SPA14B 76 37A 78 38A	
XA516	TQ2	F4	39A		PQ061A	00	=		DB06 TO PQ06
XA516	TQ2	F4	37A		(80)	01		PQ08U0 DB06P0 76 37A 78 38A	
XA511	TQ2	A1	05A		PQ062A	00	=		MA00 TO PQ06 IF PRIV VIO
XA511	TQ2	A1	07A		(06)	01		PQ06D0 PQ06M0 10 07A 08 06A	
XA515	TT3	F1	36B		PQ063A	00	=		MA00 TO PQ06 IF MEM TM-OUT
XA515	TT3	F1	39B		(73)	01		PQ06M0 PQ04D0 MMT0T0 79 39B 77 38B 75 37B	
XA513	TD4	C2	16B		PQ064A	00	=		MA00 TO PQ06 IF MEM PAR ER
XA513	TD4	C2	17A		(33)	01		MMPEE0 PQ06F0 PQ06M0 MMPE00 36 17A 34 16A 30 15A 31 15B	
XA506	TD4	D1	25B		PQ0690	00	=		SET PQ06 DATA
XA506	TD4	D1	26A		(47)	01		PQ061A PQ063A PQ062A PQ064A 56 26A 54 25A 52 24A 49 26B	
XA519	TDD	G1	25A		PQ07B1	00	=		
					( )	01		PQ0790 54 25A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA519	TDD	GN	26A	PQ07BN ( )	00	=		
					01	=	PQCP6A 56 26A	
XA519	TDD	GP	25B	PQ07BP	00	=		
XA519	TDD	GP	24A	(47)	01	=	SPI046 52 24A	
XA519	TDD	GQ	26B	PQ07BQ	00	=		
XA519	TDD	GQ	27B	(49)	01	=	SPA152 51 27B	
XA511	TQ2	A2	02B	PQ07M0	00	=		
XA511	TQ2	A2	04A	(01)	01	=	SPA144 MA01BQ 04 04A 05 03B	MA01-D FLD BIT 01
XA509	TQ2	A1	05A	PQ071A	00	=		
XA509	TQ2	A1	07A	(06)	01	=	PQDBU0 DB07P0 10 07A 08 06A	DB07 TO PQ07
XA509	TQ2	A2	02B	PQ072A	00	=		
XA509	TQ2	A2	04A	(01)	01	=	PQ07M0 PQ06D0 04 04A 05 03B	MA01 TO PQ07 IF PRIV VIO
XA515	TT3	F2	35B	PQ073A	00	=		
XA515	TT3	F2	36A	(74)	01	=	PQ04D0 PQ07M0 MMTOTO 71 36A 72 34A 65 34B	MA01 TO PQ07 IF MEM TM-OUT
XA513	TD4	D1	25B	PQ074A	00	=		
XA513	TD4	D1	26A	(47)	01	=	MMPE00 PQ06F0 PQ07M0 MMPE00 56 26A 54 25A 52 24A 49 26B	MA01 TO PQ07 IF MEM PAR ER
XA506	TD4	D2	24B	PQ0790	00	=		
XA506	TD4	D2	23A	(45)	01	=	PQ073A PQ074A PQ072A PQ071A 50 23A 48 22A 46 21A 43 23B	SET PQ07 DATA
				PQ08BI	00	=		
XA519	TDD	HI	22A	( )	01	=	PQ0890 48 22A	
				PQ08BN	00	=		
XA519	TDD	HN	21A	( )	01	=	PQCP6A 46 21A	
XA519	TDD	HP	24B	PQ08BP	00	=		
XA519	TDD	HP	23A	(45)	01	=	SPI047 50 23A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA519	TDD	HQ	23B	PQ088Q	00	H		
XA519	TDD	HQ	22B	(43)	01		SPA152 41 22B	
XA511	TQ2	A3	04B	PQ08M0	00	=		MA02-D FLD BIT 02
XA511	TQ2	A3	02A	(09)	01		MA02BQ SPA144 03 02A 07 03A	
XA509	TQ2	A3	04B	PQ081A	00	=		DB08 TO PQ08
XA509	TQ2	A3	02A	(09)	01		PQ08U0 DB08P0 03 02A 07 03A	
XA509	TQ2	A4	07B	PQ082A	00	=		MA02 TO PQ08 IF PRIV VIO
XA509	TQ2	A4	05B	(15)	01		PQ08M0 PQ06D0 11 05B 13 06B	
XA515	TT3	F3	39A	PQ083A	00	=		MA02 TO PQ08 IF MEM TM-OUT
XA515	TT3	F3	35A	(80)	01		MMT0T0 PQ04D0 PQ08M0 69 35A 76 37A 78 38A	
XA513	TD4	D2	24B	PQ084A	00	=		MA02 TO PQ08 IF MEM PAR ER
XA513	TD4	D2	23A	(45)	01		MMPE00 PQ06F0 PQ08M0 MMPEE0 50 23A 48 22A 46 21A 43 23B	
XA506	TD4	E1	31B	PQ0890	00	=		SET PQ08 DATA
XA506	TD4	E1	33A	(59)	01		PQ084A PQ082A PQ083A PQ081A 70 33A 68 32A 66 31A 61 32B	
				PQ098I	00	=		
XA519	TDD	J1	32A	( )	01		PQ0990 68 32A	
				PQ098N	00	=		
XA519	TDD	JN	33A	( )	01		PQCP6A 70 33A	
XA519	TDD	JP	31B	PQ098P	00	=		
XA519	TDD	JP	31A	(59)	01		SP1046 66 31A	
XA519	TDD	JQ	32B	PQ098Q	00	=		
XA519	TDD	JQ	33B	(61)	01		SPA152 63 33B	
XA511	TQ2	A4	07B	PQ09M0	00	=		MA03-D FLD BIT 03
XA511	TQ2	A4	05B	(15)	01		MA03BQ SPA144 11 05B 13 06B	

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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	REGIO	FACTOR	COMMENT
XA509	TQ2	B1 12A	PQ091A	00	=		
XA509	TQ2	B1 14A	(22)	01		DB09P0 PQ08U0 26 14A 24 13A	DB09 TO PQ09
XA509	TQ2	B2 09A	PQ092A	00	=		
XA509	TQ2	B2 11A	(14)	01		PQ09M0 PQ06D0 20 11A 18 10A	MA03 TO PQ09 IF PRIV VIO
XA510	TT3	A1 04A	PQ093A	00	=		
XA510	TT3	A1 07A	(04)	01		PQ0400 MMT0T0 PQ09M0 10 07A 08 06A 06 05A	MA03 TO PQ09 IF MEM IM-OUT
XA513	TD4	E1 31B	PQ094A	00	=		
XA513	TD4	E1 33A	(59)	01		PQ06F0 MMPEE0 MMPE00 PQ09M0 70 33A 68 32A 66 31A 61 32B	MA03 TO PQ09 IF MEM PAR ER
XA506	TD4	E2 30B	PQ0990	00	=		
XA506	TD4	E2 30A	(57)	01		PQ094A PQ091A PQ093A PQ092A 64 30A 62 29A 60 28A 55 29B	
			PQ108I	00	=		
XA519	TDD	KI 29A	( )	01		PQ1090 62 29A	
			PQ108N	00	=		
XA519	TDD	KN 28A	( )	01		PQCP7A 60 28A	
XA519	TDD	KP 30B	PQ108P	00	=		
XA519	TDD	KP 30A	(57)	01		SPI047 64 30A	
XA519	TDD	KQ 29B	PQ108Q	00	=		
XA519	TDD	KQ 28B	(55)	01		SPA152 53 28B	
XA511	TQ2	B1 12A	PQ10C0	00	=		
XA511	TQ2	B1 14A	(22)	01		PQPLDA PQ08TA 26 14A 24 13A	DTR PL-PQ OR BTR DB-PQ CLK EN
XA509	TQ2	B3 10B	PQ101A	00	=		
XA509	TQ2	B3 08B	(21)	01		PQPLD0 PL02BQ 17 08B 19 09B	PL02 TO PQ10
XA509	TQ2	B4 13B	PQ102A	00	=		
XA509	TQ2	B4 11B	(27)	01		DB10P0 PQ08V0 23 11B 25 12B	DB10 TO PQ10

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM DESIGNATOR	FACTOR	COMMENT
XA511	TQ2	B2	09A	PQ1090	00 =		
XA511	TQ2	B2	11A	(14)	01	PQ102A PQ101A 20 11A 18 10A	SET PQ10 DATA
				PQ118I	00 =		
XA519	TDD	LI	38B	( )	01	PQ1190 77 38B	
				PQ118N	00 =		
XA519	TDD	LN	39B	( )	01	PQCP7A 79 39B	
XA519	TDD	LP	37A	PQ118P	00 =		
XA519	TDD	LP	37B	(76)	01	SP1045 75 37B	
XA519	TDD	LQ	38A	PQ118Q	00 =		
XA519	TDD	LQ	39A	(78)	01	SPA153 80 39A	
XA511	TQ2	B3	10B	PQ111A	00 =		PL03 TO PQ11
XA511	TQ2	B3	08B	(21)	01	PQPL00 PL03BQ 17 08B 19 09B	
XA511	TQ2	B4	13B	PQ112A	00 =		DB11 TO PQ11
XA511	TQ2	B4	11B	(27)	01	DB11P0 PQDBV0 23 11B 25 12B	
XA509	TQ2	C1	18A	PQ1190	00 =		SET PQ11 DATA
XA509	TQ2	C1	20A	(38)	01	PQ112A PQ111A 42 20A 40 19A	
				PQ128I	00 =		
XA519	TDD	MI	36A	( )	01	PQ1290 71 36A	
				PQ128N	00 =		
XA519	TDD	MN	34A	( )	01	PQCP7A 72 34A	
XA519	TDD	MP	35A	PQ128P	00 =		
XA519	TDD	MP	36B	(69)	01	SP1046 73 36B	
XA519	TDD	MQ	35B	PQ128Q	00 =		
XA519	TDD	MQ	34B	(74)	01	SPA152 65 34B	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA509	TQ2	C2	15A	PQ121A	00	=		
XA509	TQ2	C2	17A	(30)	01		PL048Q PQPLD0 36 17A 34 16A	PL04 TO PQ12
XA509	TQ2	C3	16B	PQ122A	00	=		
XA509	TQ2	C3	14B	(33)	01		PQDBV0 DB12P0 29 14B 31 15B	DB12 TO PQ12
XA511	TQ2	C1	18A	PQ1290	00	=		
XA511	TQ2	C1	20A	(38)	01		PQ122A PQ121A 42 20A 40 19A	SET PQ12 DATA
				PQ138I	00	=		
XA518	TDD	AI	06A	( )	01		PQ1390 08 06A	
				PQ138N	00	=		
XA518	TDD	AN	07A	( )	01		PQCP7A 10 07A	
XA518	TDD	AP	05B	PQ138P	00	=		
XA518	TDD	AP	05A	(11)	01		SPT046 06 05A	
XA518	TDD	AQ	06B	PQ138Q	00	=		
XA518	TDD	AQ	07B	(13)	01		SPA149 15 07B	
XA511	TQ2	C2	15A	PQ131A	00	=		
XA511	TQ2	C2	17A	(30)	01		PQPLD0 PL05BQ 36 17A 34 16A	PL05 TO PQ13
XA511	TQ2	C3	16B	PQ132A	00	=		
XA511	TQ2	C3	14B	(33)	01		PQDBV0 DB13P0 29 14B 31 15B	DB13 TO PQ13
XA509	TQ2	C4	19B	PQ1390	00	=		
XA509	TQ2	C4	17B	(39)	01		PQ131A PQ132A 35 17B 37 18B	SET PQ13 DATA
				PQ148I	00	=		
XA518	TDD	BI	03B	( )	01		PQ1490 05 03B	
				PQ148N	00	=		
XA518	TDD	BN	02B	( )	01		PQCP7A 01 02B	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DEBUG. FACTOR	FACTOR	COMMENT
XA518	TDD	BP	04B	PQ14BP	00	=		
XA518	TDD	BP	04A	(09)	01		SPI047 04 04A	
XA518	TDD	BQ	03A	PQ14BQ	00	=		
XA518	TDD	BQ	02A	(07)	01		SPAI49 03 02A	
XA511	TQ2	C4	19B	PQ141A	00	=		PL06 TO PQ14
XA511	TQ2	C4	17B	(39)	01		POPLD0 PLO6BQ 35 17B 37 18B	
XA511	TQ2	D1	24A	PQ142A	00	=		DB14 TO PQ14
XA511	TQ2	D1	26A	(52)	01		PQDBV0 DBI4P0 56 26A 54 25A	
XA509	TQ2	D1	24A	PQ1490	00	=		SET PQ14 DATA
XA509	TQ2	D1	26A	(52)	01		PQ142A PQ141A 56 26A 54 25A	
XA518	TDD	CI	13A	PQ15BI	00	=		
XA518	TDD	CI	( )	( )	01		PQ1590 24 13A	
XA518	TDD	CN	14A	PQ15BN	00	=		
XA518	TDD	CN	( )	( )	01		PQCP7A 26 14A	
XA518	TDD	CP	11B	PQ15BP	00	=		
XA518	TDD	CP	12A	(23)	01		SPI046 22 12A	
XA518	TDD	CQ	12B	PQ15BQ	00	=		
XA518	TDD	CQ	13B	(25)	01		SPAI51 27 13B	
XA511	TQ2	D2	21A	PQ151A	00	=		PL07 TO PQ15
XA511	TQ2	D2	23A	(46)	01		PL07BQ PQPLD0 50 23A 48 22A	
XA511	TQ2	D3	24B	PQ152A	00	=		DB15 TO PQ15
XA511	TQ2	D3	22B	(45)	01		PQDBV0 DBI5P0 41 22B 43 23B	
XA509	TQ2	D2	21A	PQ1590	00	=		SET PQ 15 DATA
XA509	TQ2	D2	23A	(46)	01		PQ152A PQ151A 50 23A 48 22A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG. FACTOR	FACTOR					COMMENT		
				PQ16BI	00 =									
XA518	TDD	DI	10A	( )	01		CMP68Q 18 10A							
				PQ16BN	00 =									
XA518	TDD	DN	09A	( )	01		PQCP8A 14 09A							
XA518	TDD	DP	10B	PQ16BP	00 =									
XA518	TDD	DP	11A	(21 )	01		SPI047 20 11A							
XA518	TDD	DQ	09B	PQ16BQ	00 =									
XA518	TDD	DQ	08B	(19 )	01		SPA149 17 08B							
XA511	TQ2	D4	27B	PQ16CA	00 =									
XA511	TQ2	D4	25B	(51 )	01		CMP58Q CMP48Q 47 25B 49 26B					PQ16 CLK ENA		
XA509	TQ2	D3	24B	PQ16CO	00 =									
XA509	TQ2	D3	22B	(45 )	01		SPA143 PQ16CA 41 22B 43 23B					PQ16 CLK ENA		
XA510	TT3	C3	19B	PTCNLA	00 =									
XA510	TT3	C3	16B	(39 )	01		CMP78Q CMP88P CMP98Q 33 16B 35 17B 37 18B					LDA 000010 BIN PT0207		
XA516	TQ2	A4	07B	PTCPOA	00 =									
XA516	TQ2	A4	05B	(15 )	01		CLOCLB PT00C0 11 05B 13 06B					GATED CLK PT0001-0809		
XA516	TQ2	B1	12A	PTCP2A	00 =									
XA516	TQ2	B1	14A	(22 )	01		PT02C0 CLOCLB 26 14A 24 13A					GATED CLK PT0203		
XA516	TQ2	B2	09A	PTCP4A	00 =									
XA516	TQ2	B2	11A	(14 )	01		CLOCLB PT04C0 20 11A 18 10A					GATED CLK PT0407		
XA504	TT3	C3	19B	PTC77A	00 =									
XA504	TT3	C3	16B	(39 )	01		C17400 PTDBT0 AY178Q 33 16B 35 17B 37 18B					LDA +00077PT0207- TCP AY17		
XA510	TT3	A3	07B	PTDBTA	00 =									
XA510	TT3	A3	04B	(15 )	01		CMP98P CMP88Q CMP78Q 09 04B 11 05B 13 06B					BTR DB2631PT0207 AP01		

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
XA509	TQ2	D4	27B	PTDBT0	00	=		BTR DB2631PT0207 OPOL
XA509	TQ2	D4	25B	(51)	01		PTDBTA SPA143 47 25B 49 26B	
XA510	TT3	B2	09B	PTDB0A	00	=		BLO PT0001DB2425 APOL
XA510	TT3	B2	10A	(19)	01		CMP5BQ CMP4BP CMP6BQ 18 10A 14 09A 17 08B	
XA511	TQ2	E1	31A	PTDB00	00	=		BLO PT0001DB2425 OPOL
XA511	TQ2	E1	33A	(66)	01		SPA145 PTDB0A 70 33A 68 32A	
XA510	TT3	B3	13B	PTDB1A	00	=		BLO PT0207DB1823 APOL
XA510	TT3	B3	10B	(27)	01		CMP9BQ CMP8BP CMP7BP 21 10B 23 11B 25 12B	
XA511	TQ2	E2	28A	PTDB10	00	=		BLO PT0207DB1823 OPOL
XA511	TQ2	E2	30A	(60)	01		SPA145 PTDB1A 64 30A 62 29A	
XA510	TT3	C1	17A	PTDB2A	00	=		BLO PT0207DB2025 APOL
XA510	TT3	C1	20A	(36)	01		CMP9BP CMP8BQ CMP7BP 42 20A 40 19A 38 18A	
XA511	TQ2	E3	30B	PTDB20	00	=		BLO PT0207DB2025 OPOL
XA511	TQ2	E3	28B	(57)	01		PTDB2A SPA145 53 28B 55 29B	
XA510	TT3	C2	15B	PTDB3A	00	=		BLO PT0207DB2631 APOL
XA510	TT3	C2	16A	(31)	01		CMP7BP CMP8BQ CMP9BQ 34 16A 30 15A 29 14B	
XA511	TQ2	E4	33B	PTDB30	00	=		BLO PT0207DB2631 OPOL
XA511	TQ2	E4	31B	(63)	01		PTDB3A SPA145 59 31B 61 32B	
XA509	TQ2	E1	31A	PTLCNA	00	=		(LCIN/PTHP)-APOL
XA509	TQ2	E1	33A	(66)	01		SPA143 PTLCNO 70 33A 68 32A	
XA508	TS8	E1	31B	PTLCNO	00	=		L OHG BY INS/PT HGHR PRIOR
XA508	TS8	E1	33A	(59)	01		PC05CA PC04CA PC06CA SPA144 CR05BP PC03CA PC07CA PC02CA 70 33A 68 32A 66 31A 64 30A 62 29A 60 28A 55 29B 61 32B	
XA509	TQ2	E2	28A	PTRSUA	00	=		RESET PT02-03 UNQUALIFIED
XA509	TQ2	E2	30A	(60)	01		CMP1BQ CG37CA 64 30A 62 29A	

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TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
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FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 338

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
XA419	TQ2	F3	35A	PTR23A	00	=		
XA419	TQ2	F3	34B	(69)	01		CMQ1BQ CG31C0 65 34B 74 35B	RST PT02 PT03 INL300
XA510	TT3	E1	30A	PTSRQA	00	=		
XA510	TT3	E1	33A	(64)	01		ACZRC0 CG37C0 CMQ1BQ 70 33A 68 32A 66 31A	S/RST PT02-03 QUAL BY CK. AC
XA501	TQ2	E3	30B	PTXRSA	00	=		
XA501	TQ2	E3	28B	(57)	01		CSR510 SPA169 53 28B 55 29B	
				PT00BI	00	=		
XA517	TDD	A1	06A	( )	01		PT0090 08 06A	
				PT00BN	00	=		
XA517	TDD	AN	07A	( )	01		PTCPOA 10 07A	
XA517	TDD	AP	05B	PT00BP	00	=		
XA517	TDD	AP	05A	(11)	01		SPI048 06 05A	
XA517	TDD	AQ	06B	PT00BQ	00	=		
XA517	TDD	AQ	07B	(13)	01		PTXRSA 15 07B	PT REG MASTER RESET TO
XA510	TT3	E2	29B	PT00CA	00	=		
XA510	TT3	E2	29A	(55)	01		CMP9BP CMP7BQ CMP8BP 62 29A 60 28A 53 28B	BTR DB01,89 TO PT01,89 CLK EN
XA509	TQ2	E3	30B	PT00C0	00	=		
XA509	TQ2	E3	28B	(57)	01		SPA143 PT00CA 53 28B 55 29B	
XA511	TQ2	F1	37B	PT001A	00	=		
XA511	TQ2	F1	39B	(75)	01		DB00P0 PT00C0 79 39B 77 38B	DB00 TO PT00
XA509	TQ2	E4	33B	PT0090	00	=		
XA509	TQ2	E4	31B	(63)	01		SPA143 PT001A 59 31B 61 32B	SET PT00 DATA
				PT01BI	00	=		
XA517	TDD	BI	03B	( )	01		PT0190 05 03B	

1-1110-1

DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX PT01BN  
FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 339

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA517	TDD	BN	02B	PT01BN ( )	00	=	PTCPOA 01 02B	
XA517	TDD	BP	04B	PT01BP (09 )	00	=		
XA517	TDD	BP	04A		01		PTXRSA 04 04A	
XA517	TDD	BQ	03A	PT01BQ (07 )	00	=		
XA517	TDD	BQ	02A		01		SPA149 03 02A	
XA511	TQ2	F2	34A	PT011A (72 )	00	=		DB01 TO PT01
XA511	TQ2	F2	36B		01		PT00C0 DB01P0 73 36B 71 36A	
XA509	TQ2	F1	37B	PT0190 (75 )	00	=		SET PT01 DATA
XA509	TQ2	F1	39B		01		SPA144 PT011A 79 39B 77 38B	
XA517	TDD	CI	13A	PT02BI ( )	00	=	PT0290 24 13A	
XA517	TDD	CN	14A	PT02BN ( )	00	=	PTCP2A 26 14A	
XA517	TDD	CP	11B	PT02BP (23 )	00	=		
XA517	TDD	CP	12A		01		SPA150 22 12A	
XA517	TDD	CQ	12B	PT02BQ (25 )	00	=		
XA517	TDD	CQ	13B		01		PTXRSA 27 13B	
XA513	TD4	E2	30B	PT02C0 (57 )	00	=		LOA CNST,BTR,S/RST CLK ENA
XA513	TD4	E2	30A		01		PTSRQA PTRSUA PYDBYA PTCNLA 64 30A 62 29A 60 28A 55 29B	
XA509	TQ2	F2	34A	PT02Q0 (72 )	00	=		PT02BQ- UNLOAD
XA509	TQ2	F2	36B		01		SPA144 PT02BP 73 36B 71 36A	
XA507	TQ2	E4	33B	PT021A (63 )	00	=		DB26 TO PT02
XA507	TQ2	E4	31B		01		DB26P0 PYDBY0 59 31B 61 32B	

3-2880-1

DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX PT022A  
FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 340

CONNECTOR	TEST POINT	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESIGNATOR	FACTOR	COMMENT
XA509	TQ2	F4	39A	PT022A	00	=		
XA509	TQ2	F4	37A	(80)	01		CMQ2BQ SPA144 76 37A 78 38A	SET PT02- MOP CODE 11X DATA
XA510	TT3	E3	33B	PT0290	00	=		
XA510	TT3	E3	30B	(63)	01		PT022A PT021A PTC77A 57 30B 59 31B 61 32B	SET PT02 DATA
XA517	TDD	DI	10A	PT038I	00	=		
XA517	TDD	DI		( )	01		PT0390 18 10A	
XA517	TDD	DN	09A	PT038N	00	=		
XA517	TDD	DN		( )	01		PTCP2A 14 09A	
XA517	TDD	DP	10B	PT038P	00	=		
XA517	TDD	DP	11A	(21)	01		SPA150 20 11A	
XA517	TDD	DQ	09B	PT038Q	00	=		
XA517	TDD	DQ	08B	(19)	01		PTXRSA 17 08B	
XA507	TQ2	F1	37B	PT03Q0	00	=		
XA507	TQ2	F1	39B	(75)	01		SPA142 PT03BP 79 39B 77 38B	PT03BQ- UNLOAD
XA511	TQ2	F3	35A	PT031A	00	=		
XA511	TQ2	F3	34B	(69)	01		DB27P0 PTDBT0 65 34B 74 35B	DB27 TO PT03
XA511	TQ2	F4	39A	PT032A	00	=		
XA511	TQ2	F4	37A	(80)	01		CMQ3BQ ACZRC0 76 37A 78 38A	SET PT03- MOP CODE 1X1 DATA
XA510	TT3	F1	36B	PT0390	00	=		
XA510	TT3	F1	39B	(73)	01		PT032A PTC77A PT031A 79 39B 77 38B 75 37B	SET PT03 DATA
XA517	TDD	EI	19A	PT048I	00	=		
XA517	TDD	EI		( )	01		PT0490 40 19A	
XA517	TDD	EN	20A	PT048N	00	=		
XA517	TDD	EN		( )	01		PTCP4A 42 20A	

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX PT04BP  
FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 341

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	REFS	FACTOR	FACTOR	COMMENT
XA517	TDD	EP	17B	PT04BP	00	=			
XA517	TDD	EP	18A	(35)	01		SPA150 38 18A		
XA517	TDD	EQ	18B	PT04BQ	00	=			
XA517	TDD	EQ	19B	(37)	01		PTXRSA 39 19B		
XA515	TT3	D3	27B	PT04C0	00	=			LOA CNST. BTR OR AUC CLK ENA
XA515	TT3	D3	24B	(51)	01		PAUCTA PTDBTA PTCNLA 45 24B 47 25B 49 26B		
XA507	TQ2	F2	34A	PT041A	00	=			DB28 TO PT04
XA507	TQ2	F2	36B	(72)	01		PTDBTO DB28P0 73 36B 71 36A		
XA510	TT3	F3	39A	PT0490	00	=			AUCTION IF AC2R
XA510	TT3	F3	35A	(80)	01		PTC77A PBO0CA PT041A 69 35A 76 37A 78 38A		
				PT05BI	00	=			
XA517	TDD	FI	16A	( )	01		PT0590 34 16A		
				PT05BN	00	=			
XA517	TDD	FN	15A	( )	01		PTCP4A 30 15A		
XA517	TDD	FP	16B	PT05BP	00	=			
XA517	TDD	FP	17A	(33)	01		SPA150 36 17A		
XA517	TDD	FQ	15B	PT05BQ	00	=			
XA517	TDD	FQ	14B	(31)	01		PTXRSA 29 14B		
XA505	TQ2	F1	37B	PT051A	00	=			DB29 TO PT05
XA505	TQ2	F1	39B	(75)	01		PTDBTO DB29P0 79 39B 77 38B		
XA510	TT3	F2	35B	PT0590	00	=			
XA510	TT3	F2	36A	(74)	01		PT051A PTC77A PBO1CA 71 36A 72 34A 65 34B		
				PT06BI	00	=			
XA517	TDD	GI	25A	( )	01		PT0690 54 25A		

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX PT06BN  
FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 342

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
XA517	TDD	GN	26A	PT068N ( )	00 = 01		PTCP4A 56 26A	
XA517	TDD	GP	25B	PT068P (47 )	00 = 01		SPA150 52 24A	
XA517	TDD	GQ	26B	PT068Q (49 )	00 = 01		PTXRSA 51 27B	
XA505	TQ2	F3	35A	PT061A (69 )	00 = 01		PTD8T0 DB30P0 65 34B 74 35B	DB30 TO PT06
XA506	TD4	F1	37A	PT0690 (76 )	00 = 01		PTC77A PT061A PTCNLA PBO2CA 79 39B 77 38B 75 37B 78 38A	SET PT07 DATA
XA517	TDD	HI	22A	PT078I ( )	00 = 01		PT0790 48 22A	
XA517	TDD	HN	21A	PT078N ( )	00 = 01		PTCP4A 46 21A	
XA517	TDD	HP	24B	PT078P (45 )	00 = 01		SPA150 50 23A	
XA517	TDD	HQ	23B	PT078Q (43 )	00 = 01		PTXRSA 41 22B	
XA507	TQ2	F4	39A	PT071A (80 )	00 = 01		DB31P0 PTD8T0 76 37A 78 38A	DB31 TO PT07
XA510	TT3	D2	23B	PT0790 (43 )	00 = 01		PTC77A PT071A PBO3CA 48 22A 46 21A 41 22B	SET P002 DATA
XA517	TDD	JI	32A	PT088I ( )	00 = 01		PT0890 68 32A	

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX PTO0BN  
FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 343



CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
XA517	TDD	JN	33A		PT08BN ( )	00	=		
						01	=	PTCP0A 70 33A	
XA517	TDD	JP	31B		PT08BP	00	=		
XA517	TDD	JP	31A		(59 )	01	=	PTXRSA 66 31A	
XA517	TDD	JQ	32B		PT08BQ	00	=		
XA517	TDD	JQ	33B		(61 )	01	=	SPA169 63 33B	
XA507	TQ2	E2	28A		PT081A	00	=		DB08 TO PT08
XA507	TQ2	E2	30A		(60 )	01	=	PT00C0 DB08P0 64 30A 62 29A	
XA505	TQ2	E1	31A		PT0890	00	=		SET PT08 DATA
XA505	TQ2	E1	33A		(66 )	01	=	SPA142 PT081A 70 33A 68 32A	
					PT09BI ( )	00	=		
XA517	TDD	KI	29A			01	=	PT0990 62 29A	
					PT09BN ( )	00	=		
XA517	TDD	KN	28A			01	=	PTCP0A 60 28A	
XA517	TDD	KP	30B		PT09BP	00	=		
XA517	TDD	KP	30A		(57 )	01	=	PTXRSA 64 30A	
XA517	TDD	KQ	29B		PT09BQ	00	=		
XA517	TDD	KQ	28B		(55 )	01	=	SPA169 53 28B	
XA507	TQ2	E3	30B		PT091A	00	=		DB09 TO PT09
XA507	TQ2	E3	28B		(57 )	01	=	DB09P0 PT00C0 53 28B 55 29B	
XA505	TQ2	E2	28A		PT0990	00	=		SET PT09 DATA
XA505	TQ2	E2	30A		(60 )	01	=	SPA142 PT091A 64 30A 62 29A	
XA230	TD4	C2	16B		TPWFCA	00	=		PWR DOWN STOP DECODE A
XA230	TD4	C2	16A		(33 )	01	=	CG7SC0 CRUNBP CS07P0 34 16A 30 15A 31 15B	

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX TPWF2D  
FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 344

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERN	DESIGNATOR	FACTOR	COMMENT
XA333	TLD	B4	13B	TPWF2D	00	=		CPU RH BAY PWR DOWN-0
XA333	TLD	B4	11B	(27)	01		TPWFCA WDDJJA 23 11B 25 12B	
XA321	TQ2	B1	12A	UCHT10	00	=		FR CTS- COND HLT SW1
XA321	TQ2	B1	14A	(22)	01		UCHT1B SPA080 26 14A 24 13A	
XA321	TQ2	B2	09A	UCHT20	00	=		FR CTS- COND HLT SW2
XA321	TQ2	B2	11A	(14)	01		UCHT2B SPA080 20 11A 18 10A	
XA321	TQ2	B3	10B	UCHT30	00	=		FR CTS- COND HLT SW3
XA321	TQ2	B3	08B	(21)	01		SPA080 UCHT3B 17 08B 19 09B	
XA321	TQ2	B4	13B	UCHT40	00	=		FR CTS- COND HLT SW4
XA321	TQ2	B4	11B	(27)	01		SPA080 UCHT4B 23 11B 25 12B	
XA321	TQ2	A3	04B	UCLCKO	00	=		FR CTS- CLOCK TO CPU FOR
XA321	TQ2	A3	02A	(09)	01		UCLCKB SPA079 03 02A 07 03A	
XA330	TLD	D2	21A	UCPURD	00	=		TO CTS- CPU RUN IND
XA330	TLD	D2	23A	(46)	01		SPA090 CRUNB0 50 23A 48 22A	
XA332	TLD	B3	10B	UCPUSD	00	=		TO CTS- CPU STOPPED IND
XA332	TLD	B3	08B	(21)	01		CRUNBP SPA091 17 08B 19 09B	
XA321	TQ2	C1	18A	UCTR10	00	=		FR CTS- COND TRF SW1
XA321	TQ2	C1	20A	(38)	01		UCTR1B SPA080 42 20A 40 19A	
XA321	TQ2	C2	15A	UCTR20	00	=		FR CTS- COND TRF SW2
XA321	TQ2	C2	17A	(30)	01		UCTR2B SPA080 36 17A 34 16A	
XA321	TQ2	C3	16B	UCTR30	00	=		FR CTS- COND TRF SW3
XA321	TQ2	C3	14B	(33)	01		UCTR3B SPA080 29 14B 31 15B	
XA321	TQ2	C4	19B	UCTR40	00	=		FR CTS- COND TRF SW4
XA321	TQ2	C4	17B	(39)	01		UCTR4B SPA080 35 17B 37 18B	

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DRAWING NUMBER 149011-860  
UNIT ASSEMBLY NAME CARD CAGE ASSY, CPU R.H.

LOGIC

TM 11-5895-856-34-3/EE640-CA-MMI-030/E154 CPU/TO 31W2-2T-122-3  
UNIT ASSEMBLY NO. 149011 REV. D INDEX UDPL00  
FILE IDENT T39B2CP2 DATE 09-03-82 PAGE 345

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERN	DESIG- NATOR	FACTOR	COMMENT
XA321	TQ2	D1	24A	UDPL00	00	=		PL REG PV,C BITS TO DB0001.
XA321	TQ2	D1	26A	(52)	01		SPA081 UDPLRB 56 26A 54 25A	
XA321	TQ2	D2	21A	UDPL10	00	=		PL REG BITS 2-7 TO DB0207
XA321	TQ2	D2	23A	(66)	01		UDPLRB SPA080 50 23A 48 22A	
XA321	TQ2	D3	24B	UERST0	00	=		
XA321	TQ2	D3	22B	(45)	01		UERSTB SPA080 41 22B 43 23B	
XA333	TLD	F2	34A	UINRPB	00	=		
				( )	01		CG73CD4 72 34A	
XA323	TQ2	A2	02B	UINST0	00	=		FR CTS- INSTR STOP CONTROL
XA323	TQ2	A2	04A	(01)	01		SPA084 UINSTB 04 04A 05 03B	
XA321	TQ2	D4	27B	UMPEI0	00	=		FR CTS- MEM PAR ER INH CONTR
XA321	TQ2	D4	25B	(51)	01		UMPEIB SPA081 47 25B 49 26B	
XA331	TLD	B3	10B	UPGLLD	00	=		TO CTS- PROG LEV LOCK,CRO3
XA331	TLD	B3	08B	(21)	01		CRO3BQ SPA090 17 08B 19 09B	
XA317	TQ2	B2	09A	UPRLT0	00	=		PROG LEV TRACE FROM CTS
XA317	TQ2	B2	11A	(14)	01		SPA079 UPRLTB 20 11A 18 10A	
XA317	TQ2	B3	10B	URECVO	00	=		FR CTS- RECEIVE CONTROL
XA317	TQ2	B3	08B	(21)	01		URECVB SPA079 17 08B 19 09B	
XA321	TQ2	A2	02B	URUNA0	00	=		FR CTS- AUTO START MODE
XA321	TQ2	A2	04A	(01)	01		SPA079 URUNAB 04 04A 05 03B	
XA317	TQ2	B4	13B	USTSPO	00	=		FR CTS- CPU STATE STEP CONTR
XA317	TQ2	B4	11B	(27)	01		USTSPB SPA079 23 11B 25 12B	
XA348	TQ2	A4	07B	OSOGNA	00	=		UNUSABLE SPARE
XA348	TQ2	A4	06B	(15)	01		OSOGNO SPI050 13 06B 11 05B	

By Order of the Secretaries of the Army, the Navy, and The Air Force:

JOHN A. WICKHAM JR.  
*General, United States Army*  
*Chief of Staff*

Official:

ROBERT M. JOYCE  
*Major General, United States Army*  
*The Adjutant General*

G. B. SCHICK JR.  
*Rear Admiral, United States Navy*  
*Commander, Naval Electronic*  
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*General, USAF, Commander, Air Force*  
*Logistics Command*

CHARLES A. GABRIEL  
*General, USAF*  
*Chief of Staff*

DISTRIBUTION:

To be distributed in accordance with DA Form 12-51A-1, Direct and General Support Maintenance requirements for AN/TTC-39 and AN/TYC-39.



## The Metric System and Equivalents

### Linear Measure

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

### Weights

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigrams = .035 ounce  
 1 decagram = 10 grams = .35 ounce  
 1 hectogram = 10 decagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

### Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

### Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

### Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

## Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

### Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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PIN: 005291-000