

**ARMY  
NAVY  
AIR FORCE**

**TM 11-7010-201-40-3  
ET821 AA-MMI-030/E154 MTS  
T.O. 31S5-2TSQ73-2-3**

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**TECHNICAL MANUAL**

**GENERAL SUPPORT  
MAINTENANCE MANUAL  
FOR  
TEST SET, ELECTRONIC CIRCUIT PLUG-IN UNIT  
TS-3317( )/TSQ-73  
(NSN 1430-01-033-1078**

**INCLUDING  
OPERATION AND MAINTENANCE  
MTS TEST AID ASSEMBLY  
PART NUMBER TE113980**

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

**22 SEPTEMBER 1983**



**5**

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

**1**

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

**2**

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

**3**

**IF YOU CANNOT TURN OFF THE ELECTRICAL POWER, PULL, PUSH, OR LIFT THE PERSON TO SAFETY USING A WOODEN POLE OR A 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**

DANGEROUS VOLTAGE

is used in the operation of this equipment

DEATH ON CONTACT

may result if personnel fail to observe safety precautions.

Never work on electronic equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment and who is competent in administering first aid. When the technician is aided by operators, he must warn them about dangerous areas. Whenever possible, the power supply to the equipment must be shut off before beginning work on the equipment. Take particular care to ground every capacitor likely to hold a dangerous potential. When working inside the equipment, after the power has been turned off, always ground every part before touching it.

Be careful not to contact high-voltage connections when installing or operating this equipment.

Whenever the nature of the operation permits, keep one hand away from the equipment to reduce the hazard of current flowing through vital organs of the body.

Do not be misled by the term "low voltage." Potentials as low as 50 volts may cause death under adverse conditions.

**WARNING**

Ensure prime power is off to prevent shock hazard to personnel.

**WARNING**

USE OF CLEANING SOLVENT

Fumes of TRICHLOROTRIFLUOROETHANE are poisonous. Provide adequate ventilation whenever you use TRICHLOROTRIFLUOROETHANE. Do not use solvent near heat or open flame. TRICHLOROTRIFLUOROETHANE will not burn, but heat changes the gas into poisonous, irritating fumes. DO NOT breathe the fumes or vapors. TRICHLOROTRIFLUOROETHANE dissolves natural skin oils. DO NOT get the solvent on your skin. Use gloves, sleeves and an apron which the solvent cannot penetrate. If the solvent is taken internally, see a doctor immediately.

**WARNING**

When extending the MTS, always provide support for both the MTS and the case. Extension of the MTS, causes an unbalanced condition and the assembly may tip forward causing personnel injury and equipment damage.

**WARNING**

Two men are required to remove the wired plug-in unit test assembly from the case to prevent injury to personnel or damage to the equipment.

**b**



INSERT LATEST CHANGED PAGES. DESTROY SUPERSEDED PAGES.

**LIST OF EFFECTIVE PAGES**

Dates of issue for original and changed pages are:  
Original....0....

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 285 CONSISTING OF THE FOLLOWING

Page No.	# Change No.	Page No.	# Change No.	Page No.	#Change No.
Cover .....	0				
Safety Steps.....	0				
a - c .....	0				
d - blank .....	0				
i - ii .....	0				
(WL10281451) String List					
1 - 86.....	0				
(WL10281451) Connector List					
1 - 98.....	0				
(WL10281451) Logic List					
1 - 83/(84 blank) .	0				
Report of Error....	0				

# Zero in this column indicates an original page.

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TECHNICAL MANUAL  
NO. 11-7010-201-40-3  
TECHNICAL MANUAL  
ET821-AA-MMI-030/E154 MTS  
TECHNICAL ORDER  
T.O. 31S5-2TSQ73-2-3

DEPARTMENTS OF THE ARMY  
THE NAVY, AND  
THE AIR FORCE

Washington, DC, 22 September 1983

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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.

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WL10281451	Card Rack Assembly - Digital, RH, Wire List, String	1 through 86
WL10281451	Card Rack Assembly- Digital, RH, Wire List, Connector	1 through 98
WL10281451	Card Rack Assembly - Digital, RH, Wire List, Logic	1 through 83

**Scope.** This volume contains wire lists for the right-hand digital card rack assembly (bay 2) (drawing number WL10281451). Refer to chapter 3 of TM 11-7010-201-34-1 for a basic explanation of wiring information and how to use the wire lists. Also refer to sheet 2 of each wire list for notes on fabrication techniques and parts information.

NOTE

The pages in volumes 2-4 of TM 11-7010-201-40 have been numbered in a special manner. Pages within these volumes are found by keying to two page identifiers: the crowing number and the pope 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 crowing number of the wire run list that you seek. This will insure that you ore in the correct wire run section.
3. Go through these pages until you find the page number you ore looking for within this particular wire run list.

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

**CARD RACK ASSEMBLY- DIGITAL, RH  
STRING WIRE LIST  
WL10281451**

**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 FOR WIRE CODE DEFINITIONS.
4. REFERENCE TO SHEET 6 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 WIRED RH MTS.
7. ALL 8XXXXX CONTROLLED NUMBERS ARE PREFIXED BY CODE IDENT "13973".
8. ECOs WILL BE WRITTEN SHOWING YELLOW HAND WIRE BEING USED FOR CHANGES TO AUTOMATIC WIRING. THESE SAME YELLOW WIRES WILL BE INCORPORATED AS WHITE AUTOMATIC WIRES AT THE NEXT DRAWING UPDATE.

**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.

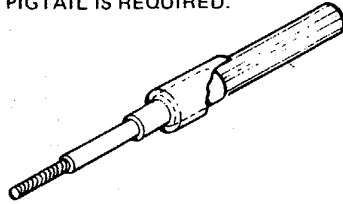
**H78 STRING AND CONNECTOR LIST, DEFINITION OF FIELDS - Continued**

- 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 identified 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.

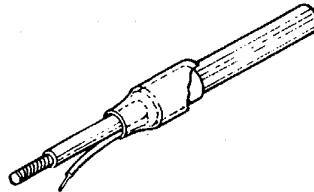
SHIELD FIGURE A

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



SHIELD FIGURE B

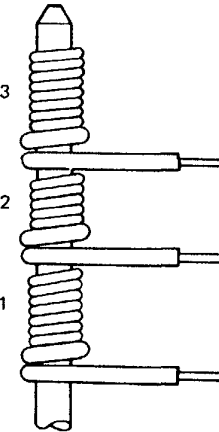
SHIELD TERMINATION FOR SHIELDED,  
SINGLE AND MULTIPLE CONDUCTORS,  
FRONT PIGTAIL IS REQUIRED.



SHIELD FIGURE NO. 3

SHIELD FIGURE NO. 2

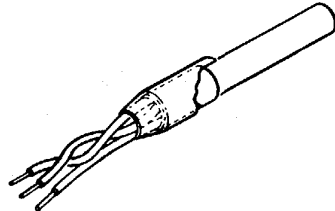
SHIELD FIGURE NO. 1



SHIELD FIGURE NUMBER  
INDICATES LEVEL OF WIRE WRAP

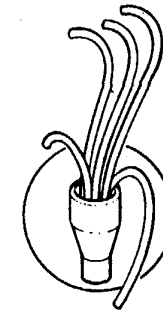
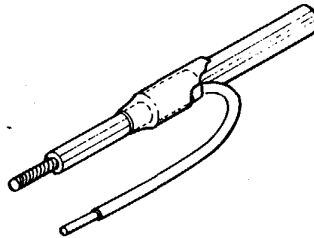
SHIELD FIGURE G

SHIELDED CABLE TERMINATION WITH DRAIN WIRE



SHIELD FIGURE C

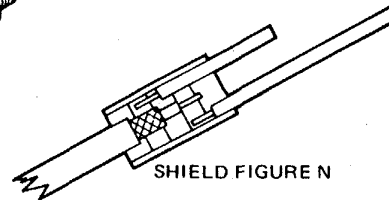
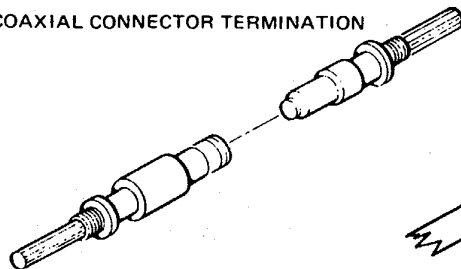
SHIELD TERMINATION FOR SHIELDED,  
SINGLE AND MULTIPLE CONDUCTORS,  
A REAR PIGTAIL IS REQUIRED.



SHIELD FIGURE X  
SHIELDED WIRE  
PIGTAILS--HYBRID

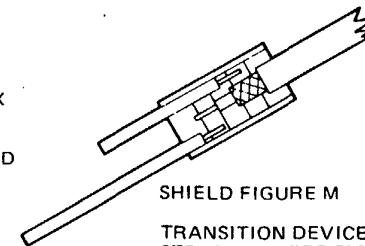
SHIELD FIGURE Z

COAXIAL CONNECTOR TERMINATION



SHIELD FIGURE N

TRANSITION DEVICE WITH  
SOLID WIRE PIGTAILS



SHIELD FIGURE M

TRANSITION DEVICE WITH  
STRANDED WIRE PIGTAILS

WIRE CODE DEFINITION			WIRE CODE DEFINITION		
Type	Description	AWG	Type	Description	AWG
1 = Polyvinylidene Fluoride (PVF) (Kynar)	1 = Buss Wire	A = 32	*F = MIL-C-17:94 (formerly MIL-C-17:68)	F = Tw Pr, Shielded	R = 2
2 = Teflon ET	2 = High Voltage	B = 30	*G = 898008-2	G = Tw Tpl, Stranded	S = 1
3 = Teflon E	3 =	C = 28	*H = 898008-1	H = Tw Tpl, Solid	T = 0
4 = Teflon EE	4 =	D = 26	*J = MIL-C-17:29	J = Tw Tpl, Shielded	U = 00
5 = Fluorinated Ethylene Propylene (FEP), Type K	5 = Integral Lead	E = 24	*K = MIL-C-17:30	K = Tw Quadr, Stranded	V = 000
6 = FEP, Type KT	6 = Auto Wire Wrap	F = 22	*L = MIL-C-17:79	L = Tw Quadr, Solid	W = 0000
7 = Special Condition	7 =	G = 20	*M = MIL-C-17:74	M = Tw Quadr, Shielded	X = Coax
8 = Polyvinyl Chloride (PVC) with Nylon Jacket, Type D	8 =	H = 18	*N = MIL-C-17:86	N = Tw Six Conductor, Stranded	Y =
9 = MIL-W-81044/12	9 =	I = 16	*P = MIL-C-17:28	P =	Z =
0 = Buss or Integral	0 = Special	J = 14	*R = 898008-4	R =	1 =
A = PVC without Jacket, Type B	A = Single Stranded	K = 12	*S = MIL-C-17:6	S =	2 =
B = PVC with Jacket	B = Single Solid	L = 10	*T = 898059-0001	T =	3 =
C = MIL-W-22759/1	C = Single Shielded	M = 8	U = 898017-1	U =	4 =
D = MIL-W-5086/1	D = Tw Pr, Stranded	N = 6	V = 898017-2	V =	5 =
E = MIL-W-5086/2	E = Tw Pr, Solid	P = 4	W = 898007-1 thru -4	W = 70 Ohm Coax	6 =
			X = 898004, Type B	X = 50 Ohm Coax	7 =
			Y = 898004, Type D	Y = 75 Ohm Coax	8 =
			*Z = MIL-C-17:94	Z = 95 Ohm Coax	9 = Spcl
			*1 = MIL-C-17:118		0 = Int Lead

NOTES: \*1. Coax.

2. The word "BAR" in the Code Field indicates and electromechanical connection made possibly by buss strips. Printed circuitry or power/ground planes will be coded "BUS" in the Code Field if required.



PARTS LIST			CONTRACT NUMBER DAAH01-71-C-0012		CODE IDENT 18876		PL WL10281451		REVISION E		
TITLE CARD RACK ASSY-DIGITAL, RH, WIRE LIST								SHEET 6			
ITEM NO.	FEET OF WIRE REQD	CODE IDENT	PART OR IDENTIFYING NUMBER	DRAWING OR DOCUMENT NUMBER	NOMENCLATURE OR DESCRIPTION	REF SYM	TIMES USED	WIRE CODE	LINE REV		
1.	150		898042-0004		WIRE, ELEC, 250V, PVF INSUL 26 GAGE (RED)		64	1BD			
2.	1935		898041-0002		WIRE, ELEC, 250V, PVF INSUL 30 GAGE (WHITE)		1935	16B			

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	IN	PREFIX	CONNECTOR	PIN	IN	MULTI GROUP	CODE	COLOR									IDENT	AND			OR
00001		J2129	14		J2129	13				180	2		+05RES	01			RR1	BP					A02	
00002		J2129	13		J2127	14				180	2		+05RES	02			RR1	BP					A02	
00003		J2127	14		J2127	13				180	2		+05RES	03			RR1	BP					A02	
00004		J2127	13		J2127	21				180	2		+05RES	04			RR1	BP					A02	
00005		J2127	21		J2127	22				180	2		+05RES	05			RR1	CP					A02	
00006		J2127	22		J2129	21				180	2		+05RES	06			RR1	CP					A02	
00007		J2129	21		J2129	22				180	2		+05RES	07			RR1	CP					A02	
00008		J2129	22		J2129	34				180	2		+05RES	08			RR1	CP					A02	
00009		J2129	34		J2129	33				180	2		+05RES	09			RR1	DP					A02	
00010		J2129	33		J2127	34				180	2		+05RES	10			RR1	DP					A02	
00011		J2127	34		J2127	33				180	2		+05RES	11			RR1	DP					A02	
00012		J2127	33		J2125	34				180	2		+05RES	12			RR1	DP					A02	
00013		J2125	34		J2125	33				180	2		+05RES	13			RR1	DP					A02	
00014		J2125	33		J2125	21				180	2		+05RES	14			RR1	DP					A02	
00015		J2125	21		J2125	22				180	2		+05RES	15			RR1	CP					A02	
00016		J2125	22		J2125	14				180	2		+05RES	16			RR1	CP					A02	
00017		J2125	14		J2125	13				180	2		+05RES	17			RR1	BP					A02	
00018		J2125	13		J2125	03				180	2		+05RES	18			RR1	BP					A02	
00019		J2125	03		J2125	04				180	2		+05RES	19			RR1	AP					A02	
00020		J2125	04		J2127	03				180	2		+05RES	20			RR1	AP					A02	
00021		J2127	03		J2127	04				180	2		+05RES	21			RR1	AP					A02	
00022		J2127	04		J2129	03				180	2		+05RES	22			RR1	AP					A02	
00023		J2129	03		J2129	04				180	2		+05RES	23			RR1	AP					A02	
00024		J2129	04		J2132	03				180	2		+05RES	24			RR1	AP					A02	
00025		J2132	03		J2132	04				180	2		+05RES	25			RR1	AP					A02	
00026		J2132	04		J2132	14				180	2		+05RES	26			RR1	AP					A02	
00027		J2132	14		J2132	13				180	2		+05RES	27			RR1	BP					A02	
00028		J2132	13		J2132	21				180	2		+05RES	28			RR1	BP					A02	
00029		J2132	21		J2132	22				180	2		+05RES	29			RR1	CP					A02	
00030		J2132	22		J2132	34				180	2		+05RES	30			RR1	CP					A02	
00031		J2132	34		J2132	33				180	2		+05RES	31			RR1	DP					A02	
00032		J2132	33		J2132	49				180	2		+05RES	32			RR1	DP					A02	
00033		J2132	49		J2132	50				180	2		+05RES	33			RR1	EP					A02	
00034		J2132	50		J2132	60				180	2		+05RES	34			RR1	EP					A02	
00035		J2132	60		J2132	59				180	2		+05RES	35			RR1	FP					A02	
00036		J2132	59		J2132	69				180	2		+05RES	36			RR1	FP					A02	
00037		J2132	69		J2132	70				180	2		+05RES	37			RR1	GP					A02	
00038		J2132	70		J2132	80				180	2		+05RES	38			RR1	GP					A02	
00039		J2132	80		J2132	79				180	2		+05RES	39			RR1	HP					A02	
00040		J2132	79		J2129	80				180	2		+05RES	40			RR1	HP					A02	
00041		J2129	80		J2129	79				180	2		+05RES	41			RR1	HP					A02	
00042		J2129	79		J2127	80				180	2		+05RES	42			RR1	HP					A02	
00043		J2127	80		J2127	79				180	2		+05RES	43			RR1	HP					A02	
00044		J2127	79		J2125	80				180	2		+05RES	44			RR1	HP					A02	
00045		J2125	80		J2125	79				180	2		+05RES	45			RR1	HP					A02	
00046		J2125	79		J2125	69				180	2		+05RES	46			RR1	HP					A02	
00047		J2125	69		J2125	70				180	2		+05RES	47			RR1	GP					A02	
00048		J2125	70		J2127	69				180	2		+05RES	48			RR1	GP					A02	
										****		SIGNAL	(+05RES											IS ON THE NEXT PAGE ****

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX +05RES  
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RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CMT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH 12	PREFIX	CONNECTOR	PIN	SH 12	MULTI GROUP	CODE	COLOR	IDENT											
00049		J2127	69		J2127	70				180	2		+05RES	49			RR1	GP				A02	
00050		J2127	70		J2129	69				180	2		+05RES	50			RR1	GP				A02	
00051		J2129	69		J2129	70				180	2		+05RES	51			RR1	GP				A02	
00052		J2129	70		J2129	60				180	2		+05RES	52			RR1	GP				A02	
00053		J2129	60		J2129	59				180	2		+05RES	53			RR1	FP				A02	
00054		J2129	59		J2127	60				180	2		+05RES	54			RR1	FP				A02	
00055		J2127	60		J2127	59				180	2		+05RES	55			RR1	FP				A02	
00056		J2127	59		J2125	60				180	2		+05RES	56			RR1	FP				A02	
00057		J2125	60		J2125	59				180	2		+05RES	57			RR1	FP				A02	
00058		J2125	59		J2125	49				180	2		+05RES	58			RR1	FP				A02	
00059		J2125	49		J2125	50				180	2		+05RES	59			RR1	EP				A02	
00060		J2125	50		J2127	49				180	2		+05RES	60			RR1	EP				A02	
00061		J2127	49		J2127	50				180	2		+05RES	61			RR1	EP				A02	
00062		J2127	50		J2129	49				180	2		+05RES	62			RR1	EP				A02	
00063		J2129	49		J2129	50				180	2		+05RES	63			RR1	EP				A02	
00064		J2129	50							180	2	K	+05RES	64			RR1	EP				A02	
03767		J2125	80	3	J2101	80				180	2		+05RES	65			RR1	HP				A02	
03490		J2101	80							180	2		+05RES	66			FTH					A02	
00590		J2141	72		J2136	74				168	9		HAACMAV	01	HAACMAV	00	1	THI	F4		34A		
00591		J2136	74							168	9		HAACMAV	02	HAACMOV	01	1	THI	F4		35A		
00592		J2139	61		J2136	72				168	9		HAACMOV	01	HAACN3U	01	1	DBC	D3		31B		
00593		J2136	72							168	9		HAACMOV	02	HAACMOV	00	1	THI	F4		34A		
00594		J2141	52		J2139	38				168	9		HAACM1U	01	HAAM1AV	01	1	THI	D1		26A		
00595		J2139	38							168	9		HAACM1U	02	HAACM1U	00	1	OBC	C1		18A		
00596		J2141	47		J2139	40				168	9		HAACM2U	01	HAAM2AV	01	1	THI	D2		24A		
00597		J2139	40							168	9		HAACM2U	02	HAACM2U	00	1	DBC	C2		19A		
00598		J2141	50		J2139	42				168	9		HAACM3U	01	HAAM3AV	01	1	THI	D3		22A		
00599		J2139	42							168	9		HAACM3U	02	HAACM3U	00	1	DBC	C3		20A		
00600		J2141	41		J2139	46				168	9		HAACM4U	01	HAAM4AV	01	1	THI	D4		23B		
00601		J2139	46							168	9		HAACM4U	02	HAACM4U	00	1	DBC	C4		21A		
00602		J2141	74		J2139	36				168	9		HAACM5U	01	HAACMAV	01	1	THI	F4		35A		
00603		J2139	36							168	9		HAACM5U	02	HAACM5U	00	1	DBC	C5		17A		
00604		J2141	45		J2139	54				168	9		HAACN1U	01	HAAM5AV	01	1	THI	D5		25B		
00605		J2139	54							168	9		HAACN1U	02	HAACN1U	00	1	DBC	D1		26A		
00606		J2141	51		J2139	56				168	9		HAACN2U	01	HAAM6AV	01	1	THI	D6		27B		
00607		J2139	56							168	9		HAACN2U	02	HAACN2U	00	1	DBC	D2		28B		
00608		J2141	54		J2136	51				168	9		HAAM1AV	01	HAAM1AV	00	1	THI	D1		25A		
00609		J2136	51							168	9		HAAM1AV	02	HAAM10V	01	1	THI	D6		27B		
00610		J2137	13		J2133	13				168	9		HAAM10V	01	HAGA71V101	1	R05	A1					
										****		SIGNAL	(HAAM10V)		IS ON THE		NEXT PAGE	****					

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAAM10V  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 9

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SH TC	MULTI GROUP	CODE	COLOR												IDENT
00611	J2133	13		J2130	13			168	9			HAAM10V	02	HAGA41V101	1	R05	A1					
00612	J2130	13		J2130	37			168	9			HAAM10V	03	HAGA11V101	1	R05	A1					
00613	J2130	37		J2133	37			168	9			HAAM10V	04	HAGA21V101	1	R05	B1					
00614	J2133	37		J2137	37			168	9			HAAM10V	05	HAGA51V101	1	R05	B1					
00615	J2137	37		J2137	60			168	9			HAAM10V	06	HAGA81V101	1	R05	B1					
00616	J2137	60		J2136	53			168	9			HAAM10V	07	HAGA91V101	1	R05	C1					
00617	J2136	53		J2133	60			168	9			HAAM10V	08	HAAM10V	00	1	THI	D6			26B	
00618	J2133	60		J2130	60			168	9			HAAM10V	09	HAGA61V101	1	R05	C1					
00619	J2130	60						168	9			HAAM10V	10	HAGA31V101	1	R05	C1					
00620	J2141	49		J2136	64			168	9			HAAM2AV	01	HAAM2AV	00	1	THI	D2			23A	
00621	J2136	64						168	9			HAAM2AV	02	HAAM20V	01	1	THI	E1				33A
00622	J2130	59		J2133	59			168	9			HAAM20V	01	HAGA32V101	1	R05	C2					
00623	J2133	59		J2133	39			168	9			HAAM20V	02	HAGA62V101	1	R05	C2					
00624	J2133	39		J2130	39			168	9			HAAM20V	03	HAGA52V101	1	R05	B2					
00625	J2130	39		J2130	17			168	9			HAAM20V	04	HAGA22V101	1	R05	B2					
00626	J2130	17		J2133	17			168	9			HAAM20V	05	HAGA12V101	1	R05	A2					
00627	J2133	17		J2137	17			168	9			HAAM20V	06	HAGA42V101	1	R05	A2					
00628	J2137	17		J2137	39			168	9			HAAM20V	07	HAGA72V101	1	R05	A2					
00629	J2137	39		J2137	59			168	9			HAAM20V	08	HAGA82V101	1	R05	B2					
00630	J2137	59		J2136	66			168	9			HAAM20V	09	HAGA92V101	1	R05	C2					
00631	J2136	66						168	9			HAAM20V	10	HAAM20V	00	1	THI	F1				32A
00632	J2141	48		J2136	61			168	9			HAAM3AV	01	HAAM3AV	00	1	THI	D3				21A
00633	J2136	61						168	9			HAAM3AV	02	HAAM30V	01	1	THI	E2				31A
00634	J2137	19		J2137	41			168	9			HAAM30V	01	HAGA73V101	1	R05	A3					
00635	J2137	41		J2137	61			168	9			HAAM30V	02	HAGA83V101	1	R05	B3					
00636	J2137	61		J2136	63			168	9			HAAM30V	03	HAGA93V101	1	R05	C3					
00637	J2136	63		J2133	61			168	9			HAAM30V	04	HAAM30V	00	1	THI	E2				30A
00638	J2133	61		J2130	61			168	9			HAAM30V	05	HAGA63V101	1	R05	C3					
00639	J2130	61		J2130	41			168	9			HAAM30V	06	HAGA33V101	1	R05	C3					
00640	J2130	41		J2133	41			168	9			HAAM30V	07	HAGA23V101	1	R05	B3					
00641	J2133	41		J2133	19			168	9			HAAM30V	08	HAGA53V101	1	R05	B3					
00642	J2133	19		J2130	19			168	9			HAAM30V	09	HAGA43V101	1	R05	A3					
00643	J2130	19						168	9			HAAM30V	10	HAGA13V101	1	R05	A3					
00644	J2141	46		J2136	62			168	9			HAAM4AV	01	HAAM4AV	00	1	THI	D4				22B
00645	J2136	62						168	9			HAAM4AV	02	HAAM40V	01	1	THI	E3				29A
00646	J2137	25		J2137	49			168	9			HAAM40V	01	HAGA74V101	1	R05	A4					
00647	J2137	49		J2136	60			168	9			HAAM40V	02	HAGA84V101	1	R05	B4					
00648	J2136	60		J2137	69			168	9			HAAM40V	03	HAAM40V	00	1	THI	E3				28A
00649	J2137	69		J2133	69			168	9			HAAM40V	04	HAGA94V101	1	R05	C4					
00650	J2133	69		J2130	69			168	9			HAAM40V	05	HAGA64V101	1	R05	C4					
00651	J2130	69		J2130	49			168	9			HAAM40V	06	HAGA34V101	1	R05	C4					
00652	J2130	49		J2133	49			168	9			HAAM40V	07	HAGA24V101	1	R05	B4					
00653	J2133	49		J2133	25			168	9			HAAM40V	08	HAGA54V101	1	R05	B4					
00654	J2133	25		J2130	25			168	9			HAAM40V	09	HAGA44V101	1	R05	A4					

\*\*\*\* SIGNAL (HAAM40V) IS ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3M1S2

REV E INDEX HAAM40V  
 DATE 09-01-82 PAGE 10

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SIZE	MULTI GROUP	CODE	COLOR										
00655		J2130	25					168	9			HAAM40V	10	HAGA14V1	01	1	RD5	A4		
00656		J2141	43		J2136	55		168	9			HAAM5AV	01	HAAM5AV	00	1	THI	D5		24B
00657		J2136	55					168	9			HAAM5AV	02	HAAM50V	01	1	THI	E4		29B
00658		J2137	27		J2137	51		168	9			HAAM50V	01	HAGA75V1	01	1	RD5	A5		
00659		J2137	51		J2136	56		168	9			HAAM50V	02	HAGA85V1	01	1	RD5	B5		
00660		J2136	56		J2137	71		168	9			HAAM50V	03	HAAM50V	00	1	THI	E4		28B
00661		J2137	71		J2133	71		168	9			HAAM50V	04	HAGA95V1	01	1	RD5	C5		
00662		J2133	71		J2130	71		168	9			HAAM50V	05	HAGA65V1	01	1	RD5	C5		
00663		J2130	71		J2130	51		168	9			HAAM50V	06	HAGA35V1	01	1	RD5	C5		
00664		J2130	51		J2133	51		168	9			HAAM50V	07	HAGA25V1	01	1	RD5	B5		
00665		J2133	51		J2133	27		168	9			HAAM50V	08	HAGA55V1	01	1	RD5	B5		
00666		J2133	27		J2130	27		168	9			HAAM50V	09	HAGA45V1	01	1	RD5	A5		
00667		J2130	27					168	9			HAAM50V	10	HAGA15V1	01	1	RD5	A5		
00668		J2141	53		J2136	59		168	9			HAAM6AV	01	HAAM6AV	00	1	THI	D6		26B
00669		J2136	59					168	9			HAAM6AV	02	HAAM60V	01	1	THI	E5		31B
00670		J2130	73		J2133	73		168	9			HAAM60V	01	HAGA36V1	01	1	RD5	C6		
00671		J2133	73		J2133	53		168	9			HAAM60V	02	HAGA66V1	01	1	RD5	C6		
00672		J2133	53		J2130	53		168	9			HAAM60V	03	HAGA56V1	01	1	RD5	B6		
00673		J2130	53		J2130	31		168	9			HAAM60V	04	HAGA26V1	01	1	RD5	B6		
00674		J2130	31		J2133	31		168	9			HAAM60V	05	HAGA16V1	01	1	RD5	A6		
00675		J2133	31		J2137	31		168	9			HAAM60V	06	HAGA46V1	01	1	RD5	A6		
00676		J2137	31		J2137	53		168	9			HAAM60V	07	HAGA76V1	01	1	RD5	A6		
00677		J2137	53		J2136	57		168	9			HAAM60V	08	HAGA86V1	01	1	RD5	B6		
00678		J2136	57		J2137	73		168	9			HAAM60V	09	HAAM60V	00	1	THI	E5		30B
00679		J2137	73					168	9			HAAM60V	10	HAGA96V1	01	1	RD5	C6		
03047		J2139	51		J2139	37		168	9			HACKMAV	01	HAACN2U	01	1	DBC	D2		25B
03048		J2139	37		J2136	77		168	9			HACKMAV	02	HAACN2U	01	1	DBC	C2		17B
03635		J2136	77					168	9			HACKMAV	03	HACKMAV	00	1	THI	F6		38A
03350		J2136	75		J2138	69		168	9			HACKM0	01	HACKMAV	01	1	THI	F6		39A
03637		J2138	69					168	9			HACKM0	02	HACKM0	00	1	TQ2	F3		35A
00680		J2132	05		J2142	15		168	9			HACMC1V1	01				RR1	A1		
00681		J2142	15		J2139	39		168	9			HACMC1V1	02	HACMC1V1	00	1	RD5	A1		T01
00682		J2139	39					168	9			HACMC1V1	03	HAACM1U	01	1	DBC	C1		18B
00683		J2132	06		J2142	18		168	9			HACMC2V1	01				RR1	A2		
00684		J2142	18		J2139	41		168	9			HACMC2V1	02	HACMC2V1	00	1	RD5	A2		T02
00685		J2139	41					168	9			HACMC2V1	03	HAACM1U	01	2	DBC	C1		19B
00686		J2132	07		J2142	20		168	9			HACMC3V1	01				RR1	A3		
00687		J2142	20		J2139	43		168	9			HACMC3V1	02	HACMC3V1	00	1	RD5	A3		T03
00688		J2139	43					168	9			HACMC3V1	03	HAACM1U	01	3	DBC	C1		22B
00689		J2132	08		J2142	22		168	9			HACMC4V1	01				RR1	A4		
											**** SIGNAL (HACMC4V1) IS ON THE NEXT PAGE ****									

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HACMC4V1  
 DATE 09-01-82 PAGE 11

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	OR	PREFIX	CONNECTOR	PIN	OR	WIRE	GROUP	CODE	COLOR											
00690		J2142	22			J2139	45			168	9		HACMC4V1	02	HACMC4V1	00	1	R05	A4		T04		
00691		J2139	45							168	9		HACMC4V1	03	HAACN1U	01	4	DBC	C1		23B		
00692		J2132	09			J2142	24			168	9		HACMC5V1	01				RR1	A5				
00693		J2142	24			J2139	53			168	9		HACMC5V1	02	HACMC5V1	00	1	R05	A5		T05		
00694		J2139	53							168	9		HACMC5V1	03	HAACN1U	01	1	DBC	D1		26B		
00695		J2132	10			J2142	26			168	9		HACMC6V1	01				RR1	A6				
00696		J2142	26			J2139	55			168	9		HACMC6V1	02	HACMC6V1	00	1	R05	A6		T06		
00697		J2139	55							168	9		HACMC6V1	03	HAACN1U	01	2	DBC	D1		27B		
00698		J2142	29			J2139	04			168	9		HACMC7V1	01	HACMC7V1	00	1	R05	A7		T07		
00699		J2139	04			J2132	17			168	9		HACMC7V1	02	HAMGC0T	01	1	DBC	A1		02A		
00700		J2132	17			J2134	11			168	9		HACMC7V1	03				RR1	B1				
03317		J2134	11							168	9		HACMC7V1	04	HACWAA	01	1	TQ2	A4		05B		
00701		J2142	34			J2139	06			168	9		HACMC8V1	01	HACMC8V1	00	1	R05	A8		T08		
00702		J2139	06			J2132	18			168	9		HACMC8V1	02	HAMGC1T	01	1	DBC	A2		03A		
00703		J2132	18			J2134	13			168	9		HACMC8V1	03				RR1	B2				
03331		J2134	13							168	9		HACMC8V1	04	HACWAA	01	2	TQ2	A4		06B		
00704		J2114	74			J2114	64			168	9		HACP3AV	01	HAICQA	01	2	TQ2	F3		35B		
00705		J2114	64			J2117	49			168	9		HACP3AV	02	HAICAA	01	2	TQ2	E2		30A		
00706		J2117	49			J2117	42			168	9		HACP3AV	03	HAIBJA	01	3	TT3	D3		26B		
00707		J2117	42			J2114	31			168	9		HACP3AV	04	HAICNA	01	3	TT3	C1		20A		
00708		J2114	31			J2112	08			168	9		HACP3AV	05	HAICIA	01	2	TQ2	C3		15B		
00709		J2112	08			J2117	13			168	9		HACP3AV	06	HACP3AV	00	1	THI	A2		04A		
00710		J2117	13							168	9		HACP3AV	07	HAICGA	01	3	TT3	A3		06B		
00711		J2112	06			J2108	10			168	9		HACP30V	01	HACP3AV	01	1	THI	A2		05A		
00712		J2108	10							168	9		HACP30V	02	HACP30V	00	1	THI	A6		06B		
03629		J2134	15			J2136	76			168	9		HACWAA	01	HACWAA	00	1	TQ2	A4		07B		
03349		J2136	76			J2101	56			168	9		HACWAA	02	HACWAOV	01	1	THI	F5		37A		
03466		J2101	56							168	9		HACWAA	03				FTH					
00713		J2108	13			J2107	08			168	9		HADAAAV	01	HADAAAV	00	1	THI	A1		06A		
00714		J2107	08							168	9		HADAAAV	02	HAP01D	01	1	TLD	A1		06A		
00715		J2147	03			J2108	11			168	9		HADAAO	01	HAT010E	01	1	TS4	A1		03B		
00716		J2108	11			J2106	06			168	9		HADAAO	02	HADAAAV	01	1	THI	A1		07A		
00717		J2106	06							168	9		HADAAO	03	HADAAO	00	1	TQ2	A1		05A		
00718		J2108	01			J2107	04			168	9		HADABAV	01	HADABAV	00	1	THI	A4		02B		
00719		J2107	04							168	9		HADABAV	02	HAP02D	01	1	TLD	A2		04A		
00720		J2147	01			J2108	05			168	9		HADABO	01	HAT011E	01	1	TS4	A2		02B		
00721		J2108	05			J2106	01			168	9		HADABO	02	HADABAV	01	1	THI	A4		03B		
00722		J2106	01							168	9		HADABO	03	HADABO	00	1	TQ2	A2		02B		
										****	SIGNAL	(HADACAV	IS ON THE NEXT PAGE				****						

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HADACAV  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 12

RECORD NUMBER	FROM			TO			WIRE				SFC IDENT	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SH FT	MULTI GROUP	CODE	COLOR												
00723		J2108	07		J2107	03			168	9		HADACAV	01	HADACAV	00	1	THI	A5		04B		
00724		J2107	03						168	9		HADACAV	02	HAP03D	01	1	TLD	A3		02A		
00725		J2147	04		J2108	09			168	9		HADACO	01	HAT012E	01	1	TS4	A3		02A		
00726		J2108	09		J2106	09			168	9		HADACO	02	HADACAV	01	1	THI	A5		05B		
00727		J2106	09						168	9		HADACO	03	HADACO	00	1	TQ2	A3		04B		
00728		J2108	25		J2107	11			168	9		HADADAV	01	HADADAV	00	1	THI	B2		11A		
00729		J2107	11						168	9		HADADAV	02	HAP04D	01	1	TLD	A4		05B		
00730		J2147	06		J2109	01			168	9		HADADO	01	HAT013E	01	1	TS4	A4		03A		
00731		J2109	01		J2108	23			168	9		HADADO	02	HADADO	00	1	TQ2	A2		02B		
00732		J2108	23						168	9		HADADO	03	HADADAV	01	1	THI	B2		12A		
00733		J2108	18		J2107	24			168	9		HADAEAV	01	HADAEAV	00	1	THI	B3		09A		
00734		J2107	24						168	9		HADAEAV	02	HAP05D	01	1	TLD	B1		13A		
00735		J2146	17		J2108	20			168	9		HADAE0	01	HAT020E	01	1	TS4	B1		09B		
00736		J2108	20		J2106	15			168	9		HADAE0	02	HADAEAV	01	1	THI	B3		10A		
00737		J2106	15						168	9		HADAE0	03	HADAE0	00	1	TQ2	A4		07B		
00738		J2108	14		J2107	18			168	9		HADAFAV	01	HADAFAV	00	1	THI	B4		08B		
00739		J2107	18						168	9		HADAFAV	02	HAP06D	01	1	TLD	B2		10A		
00740		J2146	15		J2109	15			168	9		HADAF0	01	HAT021E	01	1	TS4	B2		08B		
00741		J2109	15		J2108	17			168	9		HADAF0	02	HADAF0	00	1	TQ2	A4		07B		
00742		J2108	17						168	9		HADAF0	03	HADAFAV	01	1	THI	B4		09B		
00743		J2108	19		J2107	17			168	9		HADAGAV	01	HADAGAV	00	1	THI	B5		10B		
00744		J2107	17						168	9		HADAGAV	02	HAP07D	01	1	TLD	B3		08B		
00745		J2146	18		J2109	22			168	9		HADAGO	01	HAT022E	01	1	TS4	B3		09A		
00746		J2109	22		J2108	21			168	9		HADAGO	02	HADAGO	00	1	TQ2	B1		12A		
00747		J2108	21						168	9		HADAGO	03	HADAGAV	01	1	THI	B5		11B		
00748		J2108	26		J2107	23			168	9		HADAHAV	01	HADAHAV	00	1	THI	B6		12B		
00749		J2107	23						168	9		HADAHAV	02	HAP08D	01	1	TLD	B4		11B		
00750		J2146	20		J2109	14			168	9		HADAHO	01	HAT023E	01	1	TS4	B4		10A		
00751		J2109	14		J2108	27			168	9		HADAHO	02	HADAHO	00	1	TQ2	B2		09A		
00752		J2108	27						168	9		HADAHO	03	HADAHAV	01	1	THI	B6		13B		
00753		J2108	37		J2107	40			168	9		HADAIIV	01	HADAIIV	00	1	THI	C2		17A		
00754		J2107	40						168	9		HADAIIV	02	HAP09D	01	1	TLD	C1		19A		
00755		J2147	31		J2109	21			168	9		HADATIO	01	HAT030E	01	1	TS4	C1		15B		
00756		J2109	21		J2108	35			168	9		HADATIO	02	HADATIO	00	1	TQ2	B3		10B		
00757		J2108	35						168	9		HADATIO	03	HADATAV	01	1	THI	C2		16A		
00758		J2108	34		J2107	34			168	9		HADAJAV	01	HADAJAV	00	1	THI	C3		15A		
										****	SIGNAL	(HADAJAV)	IS ON THE	NEXT PAGE				****				

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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UNIT ASSEMBLY NO. 10281451  
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REV E INDEX HADAHAV  
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TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH. 12	PREFIX	CONNECTOR	PIN	SH. 12	MULTI GROUP	CODE	COLOR	IDENT											
00759		J2107	34							168	9		HADAJAV	02	HAP10D	01	1	TLD	C2		16A		
00760		J2147	29		J2108	36				168	9		HADAJ0	01	HAT031E	01	1	TS4	C2		14B		
00761		J2108	36		J2106	52				168	9		HADAJ0	02	HADAJAV	01	1	THI	C3		16A		
00762		J2106	52							168	9		HADAJ0	03	HADAJ0	00	1	TQ2	D1		24A		
00763		J2108	30		J2107	29				168	9		HADAKAV	01	HADAKAV	00	1	THI	C4		14B		
00764		J2107	29							168	9		HADAKAV	02	HAP11D	01	1	TLD	C3		14B		
00765		J2147	30		J2108	29				168	9		HADAKO	01	HAT032E	01	1	TS4	C3		15A		
00766		J2108	29		J2106	46				168	9		HADAKO	02	HADAKAV	01	1	THI	C4		15B		
00767		J2106	46							168	9		HADAKO	03	HADAKO	00	1	TQ2	D2		21A		
00768		J2108	31		J2107	35				168	9		HADALAV	01	HADALAV	00	1	THI	C5		16B		
00769		J2107	35							168	9		HADALAV	02	HAP12D	01	1	TLD	C4		17B		
00770		J2147	34		J2108	33				168	9		HADALO	01	HAT033E	01	1	TS4	C4		16A		
00771		J2108	33		J2106	45				168	9		HADALO	02	HADALAV	01	1	THI	C5		17B		
00772		J2106	45							168	9		HADALO	03	HADALO	00	1	TQ2	D3		24B		
00773		J2108	42		J2107	54				168	9		HADAMAV	01	HADAMAV	00	1	THI	C6		18B		
00774		J2107	54							168	9		HADAMAV	02	HAP13D	01	1	TLD	D1		25A		
00775		J2145	43		J2108	39				168	9		HADAMO	01	HAT040E	01	1	TS4	D1		23B		
00776		J2108	39		J2106	66				168	9		HADAMO	02	HADAMAV	01	1	THI	C6		19B		
00777		J2106	66							168	9		HADAMO	03	HADAMO	00	1	TQ2	E1		31A		
00778		J2108	54		J2107	48				168	9		HADANAV	01	HADANAV	00	1	THI	D1		25A		
00779		J2107	48							168	9		HADANAV	02	HAP14D	01	1	TLD	D2		22A		
00780		J2145	41		J2108	52				168	9		HADANO	01	HAT041E	01	1	TS4	D2		22B		
00781		J2108	52		J2106	60				168	9		HADANO	02	HADANAV	01	1	THI	D1		26A		
00782		J2106	60							168	9		HADANO	03	HADANO	00	1	TQ2	E2		28A		
00783		J2108	49		J2107	41				168	9		HADAPAV	01	HADAPAV	00	1	THI	D2		23A		
00784		J2107	41							168	9		HADAPAV	02	HAP15D	01	1	TLD	D3		22B		
00785		J2145	46		J2109	52				168	9		HADAPO	01	HAT042E	01	1	TS4	D3		21A		
00786		J2109	52		J2108	47				168	9		HADAPO	02	HADAPO	00	1	TQ2	D1		24A		
00787		J2108	47							168	9		HADAPO	03	HADAPAV	01	1	THI	D2		24A		
00788		J2108	48		J2107	47				168	9		HADAQAV	01	HADAQAV	00	1	THI	D3		21A		
00789		J2107	47							168	9		HADAQAV	02	HAP16D	01	1	TLD	D4		25B		
00790		J2145	48		J2109	46				168	9		HADAQO	01	HAT043E	01	1	TS4	D4		22A		
00791		J2109	46		J2108	50				168	9		HADAQO	02	HADAQO	00	1	TQ2	D2		21A		
00792		J2108	50							168	9		HADAQO	03	HADAQAV	01	1	THI	D3		22A		
00793		J2108	46		J2107	68				168	9		HADARAV	01	HADARAV	00	1	THI	D4		22B		
00794		J2107	68							168	9		HADARAV	02	HAP17D	01	1	TLD	E1		32A		



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CHK OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT											
00795		J2146	55		J2109	66			168	9			HADARO	01	HAT050E	01	1	TS4	E1		29B		
00796		J2109	66		J2108	41			168	9			HADARO	02	HADARO	00	1	TQ2	E1		31A		
00797		J2108	41						168	9			HADARO	03	HADARAV	01	1	THI	D4		23B		
00798		J2108	43		J2107	62			168	9			HADASAV	01	HADASAV	00	1	THI	D5		24B		
00799		J2107	62						168	9			HADASAV	02	HAP18D	01	1	TLD	E2		29A		
00800		J2146	53		J2109	60			168	9			HADASO	01	HAT051E	01	1	TS4	E2		28B		
00801		J2109	60		J2108	45			168	9			HADASO	02	HADASO	00	1	TQ2	E2		28A		
00802		J2108	45						168	9			HADASO	03	HADASAV	01	1	THI	D5		25B		
00803		J2108	53		J2107	53			168	9			HADATAV	01	HADATAV	00	1	THI	D6		26B		
00804		J2107	53						168	9			HADATAV	02	HAP19D	01	1	TLD	E3		28B		
00805		J2146	57		J2109	57			168	9			HADATO	01	HAT052E	01	1	TS4	E3		28A		
00806		J2109	57		J2108	51			168	9			HADATO	02	HADATO	00	1	TQ2	E3		30B		
00807		J2108	51						168	9			HADATO	03	HADATAV	01	1	THI	D6		27B		
00808		J2108	66		J2107	59			168	9			HADAUAV	01	HADAUAV	00	1	THI	E1		32A		
00809		J2107	59						168	9			HADAUAV	02	HAP20D	01	1	TLD	E4		31B		
00810		J2146	60		J2109	63			168	9			HADAUO	01	HAT053E	01	1	TS4	E4		29A		
00811		J2109	63		J2108	64			168	9			HADAUO	02	HADAUO	00	1	TQ2	E4		33B		
00812		J2108	64						168	9			HADAUO	03	HADAUAV	01	1	THI	E1		33A		
00813		J2108	80		J2107	77			168	9			HADBAAV	01	HADBAAV	00	1	THI	F1		38B		
00814		J2107	77						168	9			HADBAAV	02	HAP21D	01	1	TLD	F1		38B		
00815		J2147	71		J2108	79			168	9			HADBAO	01	HAT060E	01	1	TS4	F1		35B		
00816		J2108	79		J2106	75			168	9			HADBAO	02	HADBAAV	01	1	THI	F1		39B		
00817		J2106	75						168	9			HADBAO	03	HADBAO	00	1	TQ2	F1		37B		
00818		J2108	71		J2107	71			168	9			HADBBAV	01	HADBBAV	00	1	THI	F2		36B		
00819		J2107	71						168	9			HADBBAV	02	HAP22D	01	1	TLD	F2		36A		
00820		J2147	69		J2108	73			168	9			HADBBO	01	HAT061E	01	1	TS4	F2		34B		
00821		J2108	73		J2106	72			168	9			HADBBO	02	HADBBAV	01	1	THI	F2		37B		
00822		J2106	72						168	9			HADBBO	03	HADBBO	00	1	TQ2	F2		34A		
00823		J2108	70		J2107	65			168	9			HADBCAV	01	HADBCAV	00	1	THI	F3		34B		
00824		J2107	65						168	9			HADBCAV	02	HAP23D	01	1	TLD	F3		34B		
00825		J2147	70		J2108	69			168	9			HADBCO	01	HAT062E	01	1	TS4	F3		34A		
00826		J2108	69		J2106	69			168	9			HADBCO	02	HADBCAV	01	1	THI	F3		35B		
00827		J2106	69						168	9			HADBCO	03	HADBCO	00	1	TQ2	F3		35A		
00828		J2108	72		J2107	76			168	9			HADBDVAV	01	HADBDVAV	00	1	THI	F4		34A		
00829		J2107	76						168	9			HADBDVAV	02	HAP24D	01	1	TLD	F4		37A		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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UNIT ASSEMBLY NO. 10281451  
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TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

RECORD NUMBER	FROM			WIRE	TO			MULTI GROUP	CODE	COLOR	IDENT	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN															
00830		J2147	72		J2109	75		168	9			HADBD0	01	HAT063E	01	1	TS4	F4		35A		
00831		J2109	75		J2108	74		168	9			HADBD0	02	HADBD0	00	1	TQ2	F1		37B		
00832		J2108	74					168	9			HADBD0	03	HADBDV	01	1	THI	F4		35A		
00833		J2112	03		J2110	08		168	9			HADBEAV	01	HADBEAV	00	1	THI	A3		03A		
00834		J2110	08					168	9			HADBEAV	02	HAP25D	01	1	TLD	A1		06A		
00835		J2146	03		J2112	04		168	9			HADBE0	01	HAT070E	01	1	TS4	A1		03B		
00836		J2112	04		J2111	06		168	9			HADBE0	02	HADBEAV	01	1	THI	A3		02A		
00837		J2111	06					168	9			HADBE0	03	HADBE0	00	1	TQ2	A1		05A		
00838		J2112	01		J2110	04		168	9			HADBFV	01	HADBFV	00	1	THI	A4		02B		
00839		J2110	04					168	9			HADBFV	02	HAP26D	01	1	TLD	A2		04A		
00840		J2146	01		J2112	05		168	9			HADBF0	01	HAT071E	01	1	TS4	A2		02B		
00841		J2112	05		J2111	01		168	9			HADBF0	02	HADBFV	01	1	THI	A4		03B		
00842		J2111	01					168	9			HADBF0	03	HADBF0	00	1	TQ2	A2		02B		
00843		J2112	07		J2110	03		168	9			HADBGAV	01	HADBGAV	00	1	THI	A5		04B		
00844		J2110	03					168	9			HADBGAV	02	HAP27D	01	1	TLD	A3		02A		
00845		J2146	04		J2112	09		168	9			HADBG0	01	HAT072E	01	1	TS4	A3		02A		
00846		J2112	09		J2111	09		168	9			HADBG0	02	HADBGAV	01	1	THI	A5		05B		
00847		J2111	09					168	9			HADBG0	03	HADBG0	00	1	TQ2	A3		04B		
00848		J2112	10		J2110	11		168	9			HADBHAV	01	HADBHAV	00	1	THI	A6		06B		
00849		J2110	11					168	9			HADBHAV	02	HAP28D	01	1	TLD	A4		05B		
00850		J2146	06		J2112	15		168	9			HADBHO	01	HAT073E	01	1	TS4	A4		03A		
00851		J2112	15		J2111	15		168	9			HADBHO	02	HADBHAV	01	1	THI	A6		07B		
00852		J2111	15					168	9			HADBHO	03	HADBHO	00	1	TQ2	A4		07B		
00853		J2112	24		J2110	24		168	9			HADBIAV	01	HADBIAV	00	1	THI	B1		13A		
00854		J2110	24					168	9			HADBIAV	02	HAP29D	01	1	TLD	B1		13A		
00855		J2145	17		J2112	22		168	9			HADBIO	01	HAT080E	01	1	TS4	B1		09B		
00856		J2112	22		J2111	22		168	9			HADBIO	02	HADBIAV	01	1	THI	B1		14A		
00857		J2111	22					168	9			HADBIO	03	HADBIO	00	1	TQ2	B1		12A		
00858		J2112	25		J2110	18		168	9			HADBJAV	01	HADBJAV	00	1	THI	B2		11A		
00859		J2110	18					168	9			HADBJAV	02	HAP30D	01	1	TLD	B2		10A		
00860		J2112	23		J2111	14		168	9			HADBJO	01	HADBJAV	01	1	THI	B2		12A		
00861		J2111	14		J2145	15		168	9			HAOBJO	02	HADBJO	00	1	TQ2	B2		09A		
00862		J2145	15					168	9			HAOBJO	03	HAT081E	01	1	TS4	B2		08B		
00863		J2112	18		J2110	17		168	9			HADBKAV	01	HADBKAV	00	1	THI	B3		09A		
00864		J2110	17					168	9			HADBKAV	02	HAP31D	01	1	TLD	B3		08B		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX HADBKAV  
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RECORD NUMBER	FROM			TO			WIRE				SHEET INDEX	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CMT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SH PG	MULTI GROUP	CODE	COLOR												
00865		J2145	18		J2112	20			168	9		HADBKO	01	HAT082E	01	1	TS4	83		09A		
00866		J2112	20		J2111	21			168	9		HADBKO	02	HADBKAV	01	1	THI	83		10A		
00867		J2111	21						168	9		HADBKO	03	HADBKO	00	1	TQ2	83		10B		
00868		J2112	14		J2110	23			168	9		HADBLAV	01	HADBLAV	00	1	THI	84		08B		
00869		J2110	23						168	9		HADBLAV	02	HAP32D	01	1	TLD	84		11B		
00870		J2145	20		J2112	17			168	9		HADBLO	01	HAT083E	01	1	TS4	84		10A		
00871		J2112	17		J2111	27			168	9		HADBLO	02	HADBLAV	01	1	THI	84		09B		
00872		J2111	27						168	9		HADBLO	03	HADBLO	00	1	TQ2	84		13B		
00873		J2112	34		J2110	40			168	9		HADBMAV	01	HADBMAV	00	1	THI	C3		15A		
00874		J2110	40						168	9		HADBMAV	02	HAP33D	01	1	TLD	C1		19A		
00875		J2146	31		J2112	36			168	9		HADBMO	01	HAT090E	01	1	TS4	C1		15B		A01
00876		J2112	36		J2111	38			168	9		HADBMO	02	HADBMAV	01	1	THI	C3		16A		
00877		J2111	38						168	9		HADBMO	03	HADBMO	00	1	TQ2	C1		18A		
00878		J2112	30		J2110	34			168	9		HADBNVAV	01	HADBNVAV	00	1	THI	C4		14B		
00879		J2110	34						168	9		HADBNVAV	02	HAP34D	01	1	TLD	C2		16A		
00880		J2146	29		J2112	29			168	9		HADBNO	01	HAT091E	01	1	TS4	C2		14B		
00881		J2112	29		J2111	30			168	9		HADBNO	02	HADBNVAV	01	1	THI	C4		15B		
00882		J2111	30						168	9		HADBNO	03	HADBNO	00	1	TQ2	C2		15A		
00883		J2112	31		J2110	29			168	9		HADBPAV	01	HADBPAV	00	1	THI	C5		16B		
00884		J2110	29						168	9		HADBPAV	02	HAP35D	01	1	TLD	C3		14B		
00885		J2146	30		J2112	33			168	9		HADBPO	01	HAT092E	01	1	TS4	C3		15A		
00886		J2112	33		J2111	33			168	9		HADBPO	02	HADBPAV	01	1	THI	C5		17B		
00887		J2111	33						168	9		HADBPO	03	HADBPO	00	1	TQ2	C3		16B		
00888		J2112	42		J2110	35			168	9		HADBQAV	01	HADBQAV	00	1	THI	C6		18B		
00889		J2110	35						168	9		HADBQAV	02	HAP36D	01	1	TLD	C4		17B		
00890		J2146	34		J2112	39			168	9		HADBQO	01	HAT093E	01	1	TS4	C4		16A		
00891		J2112	39		J2111	39			168	9		HADBQO	02	HADBQAV	01	1	THI	C6		19B		
00892		J2111	39						168	9		HADBQO	03	HADBQO	00	1	TQ2	C4		19B		
00893		J2112	54		J2110	54			168	9		HADBRAV	01	HADBRAV	00	1	THI	D1		25A		
00894		J2110	54						168	9		HADBRAV	02	HAP37D	01	1	TLD	D1		25A		
00895		J2145	03		J2112	52			168	9		HADBRO	01	HAT100E	01	1	TS4	A1		03B		
00896		J2112	52		J2111	52			168	9		HADBRO	02	HADBRAV	01	1	THI	D1		26A		
00897		J2111	52						168	9		HADBRO	03	HADBRO	00	1	TQ2	D1		24A		
00898		J2112	49		J2110	48			168	9		HADBSAV	01	HADBSAV	00	1	THI	D2		23A		
00899		J2110	48						168	9		HADBSAV	02	HAP38D	01	1	TLD	D2		22A		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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RECORD NUMBER	FROM			TO	WIRE							SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CAT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	SH TS	MULTI GROUP	CODE	COLOR											
00900		J2145	01	J2112	47			168	9			HADBS0	01	HAT101E	01	1	TS4	A2	02B			
00901		J2112	47	J2111	46			168	9			HADBS0	02	HADBSAV	01	1	THI	D2	24A			
00902		J2111	46					168	9			HADBS0	03	HADBS0	00	1	TQ2	D2	21A			
00903		J2112	48	J2110	41			168	9			HADBTAV	01	HADBTAV	00	1	THI	D3	21A			
00904		J2110	41					168	9			HADBTAV	02	HAP39D	01	1	TLD	D3	22B			
00905		J2145	04	J2112	50			168	9			HADBT0	01	HAT102E	01	1	TS4	A3	02A			
00906		J2112	50	J2111	45			168	9			HADBT0	02	HADBTAV	01	1	THI	D3	22A			
00907		J2111	45					168	9			HADBT0	03	HADBT0	00	1	TQ2	D3	24B			
00908		J2112	46	J2110	47			168	9			HADBUAV	01	HADBUAV	00	1	THI	D4	22B			
00909		J2110	47					168	9			HADBUAV	02	HAP40D	01	1	TLD	D4	25B			
00910		J2145	06	J2112	41			168	9			HADBU0	01	HAT103E	01	1	TS4	A4	03A			
00911		J2112	41	J2111	51			168	9			HADBU0	02	HADBUAV	01	1	THI	D4	23B			
00912		J2111	51					168	9			HADBU0	03	HADBU0	00	1	TQ2	D4	27B			
00913		J2112	57	J2110	68			168	9			HADBVAV	01	HADBVAV	00	1	THI	E5	30B			
00914		J2110	68					168	9			HADBVAV	02	HAP41D	01	1	TLD	E1	32A			
00915		J2147	17	J2112	59			168	9			HADBV0	01	HAT110E	01	1	TS4	B1	09B			
00916		J2112	59	J2111	66			168	9			HADBV0	02	HADBVAV	01	1	THI	E5	31B			
00917		J2111	66					168	9			HADBV0	03	HADBV0	00	1	TQ2	E1	31A			
00918		J2112	68	J2110	62			168	9			HADBWAV	01	HADBWAV	00	1	THI	E6	32B			
00919		J2110	62					168	9			HADBWAV	02	HAP42D	01	1	TLD	E2	29A			
00920		J2112	65	J2111	60			168	9			HADBWO	01	HADBWAV	01	1	THI	E6	33B			
00921		J2111	60	J2147	15			168	9			HADBWO	02	HADBWO	00	1	TQ2	E2	28A			
00922		J2147	15					168	9			HADBWO	03	HAT111E	01	1	TS4	B2	08B			
00923		J2112	80	J2110	53			168	9			HADCAAV	01	HADCAAV	00	1	THI	F1	38B			
00924		J2110	53					168	9			HADCAAV	02	HAP43D	01	1	TLD	E3	28B			
00925		J2112	79	J2111	57			168	9			HADCA0	01	HADCAAV	01	1	THI	F1	39B			
00926		J2111	57	J2147	18			168	9			HADCA0	02	HADCA0	00	1	TQ2	E3	30B			
00927		J2147	18					168	9			HADCA0	03	HAT112E	01	1	TS4	B3	09A			
00928		J2112	71	J2110	59			168	9			HADCBVAV	01	HADCBVAV	00	1	THI	F2	36B			
00929		J2110	59					168	9			HADCBVAV	02	HAP44D	01	1	TLD	E4	31B			
00930		J2112	73	J2111	63			168	9			HADCB0	01	HADCBVAV	01	1	THI	F2	37B			
00931		J2111	63	J2147	20			168	9			HADCB0	02	HADCB0	00	1	TQ2	E4	33B			
00932		J2147	20					168	9			HADCB0	03	HAT113E	01	1	TS4	B4	10A			
00933		J2112	70	J2110	77			168	9			HADCCAV	01	HADCCAV	00	1	THI	F3	34B			
00934		J2110	77					168	9			HADCCAV	02	HAP45D	01	1	TLD	F1	38B			

DRAWING NUMBER WL10281451  
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RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SFO NO	EQUATION	TERM FACTOR	CKT GP CHIP TYPE	POWER	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	MULTI GROUP	CODE	COLOR	IDENT								ANG	OR		
00935		J2145	31		J2112	69		168	9			HADCC0	01	HAT120E	01	1	TS4	C1	15B		
00936		J2112	69		J2111	75		168	9			HADCC0	02	HADCCAV	01	1	THI	F3	35B		
00937		J2111	75					168	9			HADCC0	03	HADCC0	00	1	TQ2	F1	37B		
00938		J2112	72		J2110	71		168	9			HADCAV	01	HADCAV	00	1	THI	F4	34A		
00939		J2110	71					168	9			HADCAV	02	HAP46D	01	1	TLD	F2	36A		
00940		J2145	29		J2112	74		168	9			HADCO0	01	HAT121E	01	1	TS4	C2	14B		
00941		J2112	74		J2111	72		168	9			HADCO0	02	HADCAV	01	1	THI	F4	35A		
00942		J2111	72					168	9			HADCO0	03	HADCO0	00	1	TQ2	F2	34A		
00943		J2112	78		J2110	65		168	9			HADCEAV	01	HADCEAV	00	1	THI	F5	36A		
00944		J2110	65					168	9			HADCEAV	02	HAP47D	01	1	TLD	F3	34B		
00945		J2145	30		J2112	76		168	9			HADCE0	01	HAT122E	01	1	TS4	C3	15A		
00946		J2112	76		J2111	69		168	9			HADCE0	02	HADCEAV	01	1	THI	F5	37A		
00947		J2111	69					168	9			HADCE0	03	HADCE0	00	1	TQ2	F3	35A		
00948		J2112	77		J2110	76		168	9			HADCFAV	01	HADCFAV	00	1	THI	F6	38A		
00949		J2110	76					168	9			HADCFAV	02	HAP48D	01	1	TLD	F4	37A		
00950		J2145	34		J2112	75		168	9			HADCF0	01	HAT123E	01	1	TS4	C4	16A		
00951		J2112	75		J2111	80		168	9			HADCF0	02	HADCFAV	01	1	THI	F6	39A		
00952		J2111	80					168	9			HADCF0	03	HADCF0	00	1	TQ2	F4	39A		
00953		J2116	13		J2113	08		168	9			HADCGAV	01	HADCGAV	00	1	THI	A1	06A		
00954		J2113	08					168	9			HADCGAV	02	HAP49D	01	1	TLD	A1	06A		
00955		J2147	43		J2116	11		168	9			HADCG0	01	HAT130E	01	1	TS4	D1	23B		
00956		J2116	11		J2115	06		168	9			HADCG0	02	HADCGAV	01	1	THI	A1	07A		
00957		J2115	06					168	9			HADCG0	03	HADCG0	00	1	TQ2	A1	05A		
00958		J2116	08		J2113	04		168	9			HADCHAV	01	HADCHAV	00	1	THI	A2	04A		
00959		J2113	04					168	9			HADCHAV	02	HAP50D	01	1	TLD	A2	04A		
00960		J2147	41		J2116	06		168	9			HADCHO	01	HAT131E	01	1	TS4	D2	22B		
00961		J2116	06		J2115	01		168	9			HADCHO	02	HADCHAV	01	1	THI	A2	05A		
00962		J2115	01					168	9			HADCHO	03	HADCHO	00	1	TQ2	A2	02B		
00963		J2116	03		J2113	03		168	9			HADCIAV	01	HADCIAV	00	1	THI	A3	03A		
00964		J2113	03					168	9			HADCIAV	02	HAP51D	01	1	TLD	A3	02A		
00965		J2147	46		J2116	04		168	9			HADCT0	01	HAT132E	01	1	TS4	D3	21A		
00966		J2116	04		J2115	09		168	9			HADCT0	02	HADCIAV	01	1	THI	A3	02A		
00967		J2115	09					168	9			HADCT0	03	HADCT0	00	1	TQ2	A3	04B		
00968		J2116	01		J2113	11		168	9			HADJAV	01	HADJAV	00	1	THI	A4	02B		
00969		J2113	11					168	9			HADJAV	02	HAP52D	01	1	TLD	A4	05B		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451  
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RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SIZE	MULTI GROUP	CODE	COLOR									IDENT	AND		
00970		J2116	05		J2115	15			168	9		HADCJO	01	HADCJAV	01	1	THI	A4		03B		
00971		J2115	15		J2147	48			168	9		HADCJO	02	HADCJO	00	1	TQ2	A4		07B		
00972		J2147	48						168	9		HADCJO	03	HAT133E	01	1	TS4	D4		22A		
00973		J2116	07		J2113	24			168	9		HADCKAV	01	HADCKAV	00	1	THI	A5		04B		
00974		J2113	24						168	9		HADCKAV	02	HAP53D	01	1	TLD	B1		13A		
00975		J2116	09		J2115	22			168	9		HADCKO	01	HADCKAV	01	1	THI	A5		05B		
00976		J2115	22		J2145	55			168	9		HADCKO	02	HADCKO	00	1	TQ2	B1		12A		
00977		J2145	55						168	9		HADCKO	03	HAT140E	01	1	TS4	E1		29B		
00978		J2116	10		J2113	18			168	9		HADCLAV	01	HADCLAV	00	1	THI	A6		06B		
00979		J2113	18						168	9		HADCLAV	02	HAP54D	01	1	TLD	B2		10A		
00980		J2145	53		J2116	15			168	9		HADCLO	01	HAT141E	01	1	TS4	E2		28B		
00981		J2116	15		J2115	14			168	9		HADCLO	02	HADCLAV	01	1	THI	A6		07B		
00982		J2115	14						168	9		HADCLO	03	HADCLO	00	1	TQ2	B2		09A		
00983		J2116	24		J2113	17			168	9		HADCMV	01	HADCMV	00	1	THI	B1		13A		
00984		J2113	17						168	9		HADCMV	02	HAP55D	01	1	TLD	B3		08B		
00985		J2145	57		J2116	22			168	9		HADCMO	01	HAT142E	01	1	TS4	E3		28A		
00986		J2116	22		J2115	21			168	9		HADCMO	02	HADCMV	01	1	THI	B1		14A		
00987		J2115	21						168	9		HADCMO	03	HADCMO	00	1	TQ2	B3		10B		
00988		J2116	26		J2113	23			168	9		HADCNAV	01	HADCNAV	00	1	THI	B6		12B		
00989		J2113	23						168	9		HADCNAV	02	HAP56D	01	1	TLD	B4		11B		
00990		J2145	60		J2116	27			168	9		HADCNO	01	HAT143E	01	1	TS4	E4		29A		
00991		J2116	27		J2115	27			168	9		HADCNO	02	HADCNAV	01	1	THI	B6		13B		
00992		J2115	27						168	9		HADCNO	03	HADCNO	00	1	TQ2	B4		13B		
00993		J2116	40		J2113	40			168	9		HADCPAV	01	HADCPAV	00	1	THI	C1		19A		
00994		J2113	40						168	9		HADCPAV	02	HAP57D	01	1	TLD	C1		19A		
00995		J2147	55		J2116	38			168	9		HADCP0	01	HAT150E	01	1	TS4	E1		29B		
00996		J2116	38		J2115	38			168	9		HADCP0	02	HADCPAV	01	1	THI	C1		20A		
00997		J2115	38						168	9		HADCP0	03	HADCP0	00	1	TQ2	C1		18A		
00998		J2116	37		J2113	34			168	9		HADCQAV	01	HADCQAV	00	1	THI	C2		17A		
00999		J2113	34						168	9		HADCQAV	02	HAP58D	01	1	TLD	C2		16A		
01000		J2147	53		J2116	35			168	9		HADCQ0	01	HAT151E	01	1	TS4	E2		28B		
01001		J2116	35		J2115	30			168	9		HADCQ0	02	HADCQAV	01	1	THI	C2		18A		
01002		J2115	30						168	9		HADCQ0	03	HADCQ0	00	1	TQ2	C2		15A		
01003		J2116	34		J2113	29			168	9		HADCRAV	01	HADCRAV	00	1	THI	C3		15A		
01004		J2113	29						168	9		HADCRAV	02	HAP59D	01	1	TLD	C3		14B		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

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RECORD NUMBER	FROM			BR. PO.	TO			MULTI GROUP	WIRE			SPEC. INST. MISC.	SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		BR. PO.	CODE	COLOR											
01005		J2147	57		J2116	36			168	9		HADCR0	01	HAT152E	01	1	TS4	E3		28A		
01006		J2116	36		J2115	33			168	9		HADCR0	02	HADCRAV	01	1	THI	C3		16A		
01007		J2115	33						168	9		HADCR0	03	HADCR0	00	1	TQ2	C3		16B		
01008		J2116	30		J2113	35			168	9		HADCSAV	01	HADCSAV	00	1	THI	C4		14B		
01009		J2113	35						168	9		HADCSAV	02	HAP60D	01	1	TLD	C4		17B		
01010		J2116	29		J2115	39			168	9		HADCS0	01	HADCSAV	01	1	THI	C4		15B		
01011		J2115	39		J2147	60			168	9		HADCS0	02	HADCS0	00	1	TQ2	C4		19B		
01012		J2147	60						168	9		HADCS0	03	HAT153E	01	1	TS4	E4		29A		
01013		J2116	31		J2113	54			168	9		HADCTAV	01	HADCTAV	00	1	THI	C5		16B		
01014		J2113	54						168	9		HADCTAV	02	HAP61D	01	1	TLD	D1		25A		
01015		J2146	43		J2116	33			168	9		HADCT0	01	HAT160E	01	1	TS4	D1		23B		
01016		J2116	33		J2115	52			168	9		HADCT0	02	HADCTAV	01	1	THI	C5		17B		
01017		J2115	52						168	9		HADCT0	03	HADCT0	00	1	TQ2	D1		24A		
01018		J2116	42		J2113	48			168	9		HADCUAV	01	HADCUAV	00	1	THI	C6		18B		
01019		J2113	48						168	9		HADCUAV	02	HAP62D	01	1	TLD	D2		22A		
01020		J2146	41		J2116	39			168	9		HADCU0	01	HAT161E	01	1	TS4	D2		22B		
01021		J2116	39		J2115	46			168	9		HADCU0	02	HADCUAV	01	1	THI	C6		19B		
01022		J2115	46						168	9		HADCU0	03	HADCU0	00	1	TQ2	D2		21A		
01023		J2116	54		J2113	41			168	9		HADCVAV	01	HADCVAV	00	1	THI	D1		25A		
01024		J2113	41						168	9		HADCVAV	02	HAP63D	01	1	TLD	D3		22B		
01025		J2146	46		J2116	52			168	9		HADCV0	01	HAT162E	01	1	TS4	D3		21A		
01026		J2116	52		J2115	45			168	9		HADCV0	02	HADCVAV	01	1	THI	D1		26A		
01027		J2115	45						168	9		HADCV0	03	HADCV0	00	1	TQ2	D3		24B		
01028		J2116	49		J2113	47			168	9		HADCWAV	01	HADCWAV	00	1	THI	D2		23A		
01029		J2113	47						168	9		HADCWAV	02	HAP64D	01	1	TLD	D4		25B		
01030		J2146	48		J2116	47			168	9		HADCW0	01	HAT163E	01	1	TS4	D4		22A		
01031		J2116	47		J2115	51			168	9		HADCW0	02	HADCWAV	01	1	THI	D2		24A		
01032		J2115	51						168	9		HADCW0	03	HADCW0	00	1	TQ2	D4		27B		
01033		J2116	56		J2113	68			168	9		HADCXAV	01	HADCXAV	00	1	THI	E4		28B		
01034		J2113	68						168	9		HADCXAV	02	HAP65D	01	1	TLD	E1		32A		
01035		J2145	71		J2116	55			168	9		HADCX0	01	HAT170E	01	1	TS4	F1		35B		
01036		J2116	55		J2115	66			168	9		HADCX0	02	HADCXAV	01	1	THI	E4		29B		
01037		J2115	66						168	9		HADCX0	03	HADCX0	00	1	TQ2	E1		31A		
01038		J2116	57		J2113	62			168	9		HADCYAV	01	HADCYAV	00	1	THI	E5		30B		
01039		J2113	62						168	9		HADCYAV	02	HAP66D	01	1	TLD	E2		29A		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	WIRE NO	MULTI GROUP	CODE	COLOR											IDENT
01040		J2145	69	J2116	59			168	9			HADCYO	01	HAT171E	01	1	TS4	F2		34B	
01041		J2116	59	J2115	60			168	9			HADCYO	02	HADCYAV	01	1	THI	E5		31B	
01042		J2115	60					168	9			HADCYO	03	HADCYO	00	1	TQ2	E2		28A	
01043		J2116	68	J2113	53			168	9			HADCZAV	01	HADCZAV	00	1	THI	E6		32B	
01044		J2113	53					168	9			HADCZAV	02	HAP67D	01	1	TLD	E3		28B	
01045		J2116	65	J2115	57			168	9			HADCZO	01	HADCZAV	01	1	THI	E6		33B	
01046		J2115	57	J2145	70			168	9			HADCZO	02	HADCZO	00	1	TQ2	E3		30B	
01047		J2145	70					168	9			HADCZO	03	HAT172E	01	1	TS4	F3		34A	
01048		J2116	80	J2113	59			168	9			HADDAAV	01	HADDAAV	00	1	THI	F1		38B	
01049		J2113	59					168	9			HADDAAV	02	HAP68D	01	1	TLD	E4		31B	
01050		J2116	79	J2115	63			168	9			HADDAO	01	HADDAAV	01	1	THI	F1		39B	
01051		J2115	63	J2145	72			168	9			HADDAO	02	HADDAO	00	1	TQ2	E4		33B	
01052		J2145	72					168	9			HADDAO	03	HAT173E	01	1	TS4	F4		35A	
01053		J2116	71	J2113	77			168	9			HADDBAV	01	HADDBAV	00	1	THI	F2		36B	
01054		J2113	77					168	9			HADDBAV	02	HAP69D	01	1	TLD	F1		38B	
01055		J2146	71	J2116	73			168	9			HADDBO	01	HAT180E	01	1	TS4	F1		35B	A01
01056		J2116	73	J2115	75			168	9			HADDBO	02	HADDBAV	01	1	THI	F2		37B	
01057		J2115	75					168	9			HADDBO	03	HADDBO	00	1	TQ2	F1		37B	
01058		J2116	70	J2113	71			168	9			HADDCAV	01	HADDCAV	00	1	THI	F3		34B	
01059		J2113	71					168	9			HADDCAV	02	HAP70D	01	1	TLD	F2		36A	
01061		J2146	69	J2116	69			168	9			HADDCO	02	HAT181E	01	1	TS4	F2		34B	
01062		J2116	69	J2115	72			168	9			HADDCO	03	HADDCAV	01	1	THI	F3		35B	
01063		J2115	72					168	9			HADDCO	04	HADDCO	00	1	TQ2	F2		34A	
01064		J2116	72	J2113	65			168	9			HAODDAV	01	HAODDAV	00	1	THI	F4		34A	
01065		J2113	65					168	9			HAODDAV	02	HAP71D	01	1	TLD	F3		34B	
01066		J2146	70	J2116	74			168	9			HADDDO	00	HAT182E	01	1	TS4	F3		34A	A01
01066		J2116	74	J2115	69			168	9			HADDDO	01	HAODDAV	01	1	THI	F4		35A	
01067		J2115	69					168	9			HADDDO	02	HADDDO	00	1	TQ2	F3		35A	
01068		J2116	78	J2113	76			168	9			HADDEAV	01	HADDEAV	00	1	THI	F5		36A	
01069		J2113	76					168	9			HADDEAV	02	HAP72D	01	1	TLD	F4		37A	
01070		J2146	72	J2116	76			168	9			HADDEO	01	HAT183E	01	1	TS4	F4		35A	
01071		J2116	76	J2115	80			168	9			HADDEO	02	HADDEAV	01	1	THI	F5		37A	
01072		J2115	80					168	9			HADDEO	03	HADDEO	00	1	TQ2	F4		39A	
01073		J2118	77	J2118	63			168	9			HADEAOV	01	HAD153E	01	2	TS4	F4		38B	
01074		J2118	63	J2118	49			168	9			HADEAOV	02	HAD143E	01	2	TS4	E4		32B	

\*\*\*\* SIGNAL (HADEAOV) IS ON THE NEXT PAGE \*\*\*\*



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 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEC NO	EQUATION	TERM	FACTOR	CKT OR TRIP TYPE	DRIP	LOAD OR POWER PLANE	TEST POINTS ANG OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH-2	PREFIX	CONNECTOR	PIN	SH-2	MULTI GROUP	CODE	COLGR	IDENT											
01075		J2118	49		J2118	37				168	9		HADEA0V	03	HAD133E	01	2	TS4	D4		26B		
01076		J2118	37		J2118	23				168	9		HADEA0V	04	HAD123E	01	2	TS4	C4		18B		
01077		J2118	23		J2118	09				168	9		HADEA0V	05	HAD113E	01	2	TS4	B4		12B		
01078		J2118	09		J2124	13				168	9		HADEA0V	06	HAD103E	01	2	TS4	A4		06B		
01079		J2124	13							168	9		HADEA0V	07	HADEA0V	00	1	THI	A1		06A		
01080		J2120	77		J2120	63				168	9		HADEB0V	01	HAD063E	01	2	TS4	F4		38B		
01081		J2120	63		J2120	49				168	9		HADEB0V	02	HAD053E	01	2	TS4	E4		32B		
01082		J2120	49		J2120	37				168	9		HADEB0V	03	HAD043E	01	2	TS4	D4		26B		
01083		J2120	37		J2120	23				168	9		HADEB0V	04	HAD033E	01	2	TS4	C4		18B		
01084		J2120	23		J2120	09				168	9		HADEB0V	05	HAD023E	01	2	TS4	B4		12B		
01085		J2120	09		J2124	08				168	9		HADEB0V	06	HAD013E	01	2	TS4	A4		06B		
01086		J2124	08							168	9		HADEB0V	07	HADEB0V	00	1	THI	A2		04A		
01087		J2119	77		J2119	63				168	9		HADECOV	01	HAD183E	01	2	TS4	F4		38B		
01088		J2119	63		J2119	49				168	9		HADECOV	02	HAD173E	01	2	TS4	E4		32B		
01089		J2119	49		J2119	37				168	9		HADECOV	03	HAD163E	01	2	TS4	D4		26B		
01090		J2119	37		J2119	23				168	9		HADECOV	04	HAD093E	01	2	TS4	C4		18B		
01091		J2119	23		J2119	09				168	9		HADECOV	05	HAD083E	01	2	TS4	B4		12B		
01092		J2119	09		J2124	03				168	9		HADECOV	06	HAD073E	01	2	TS4	A4		06B		
01093		J2124	03							168	9		HADECOV	07	HADECOV	00	1	THI	A3		03A		
01094		J2119	74		J2118	74				168	9		HADXYAV	01	HAD181E	01	2	TS4	F2		36A		
01095		J2118	74		J2118	62				168	9		HADXYAV	02	HAD151E	01	2	TS4	F2		36A		
01096		J2118	62		J2119	62				168	9		HADXYAV	03	HAD141E	01	2	TS4	E2		30A		
01097		J2119	62		J2119	50				168	9		HADXYAV	04	HAD171E	01	2	TS4	E2		30A		
01098		J2119	50		J2118	50				168	9		HADXYAV	05	HAD161E	01	2	TS4	D2		23A		
01099		J2118	50		J2118	36				168	9		HADXYAV	06	HAD131E	01	2	TS4	D2		23A		
01100		J2118	36		J2118	22				168	9		HADXYAV	07	HAD121E	01	2	TS4	C2		17A		
01101		J2118	22		J2118	08				168	9		HADXYAV	08	HAD111E	01	2	TS4	B2		11A		
01102		J2118	08		J2124	01				168	9		HADXYAV	09	HAD101E	01	2	TS4	A2		04A		
01103		J2124	01							168	9		HADXYAV	10	HADXYAV	00	1	THI	A4		02B		
01104		J2120	74		J2120	62				168	9		HADXZAV	01	HAD061E	01	2	TS4	F2		36A		
01105		J2120	62		J2120	50				168	9		HADXZAV	02	HAD051E	01	2	TS4	E2		30A		
01106		J2120	50		J2120	36				168	9		HADXZAV	03	HAD041E	01	2	TS4	D2		23A		
01107		J2120	36		J2119	36				168	9		HADXZAV	04	HAD031E	01	2	TS4	C2		17A		
01108		J2119	36		J2119	22				168	9		HADXZAV	05	HAD091E	01	2	TS4	C2		17A		
01109		J2119	22		J2120	22				168	9		HADXZAV	06	HAD081E	01	2	TS4	B2		11A		
01110		J2120	22		J2120	08				168	9		HADXZAV	07	HAD021E	01	2	TS4	B2		11A		
01111		J2120	08		J2119	08				168	9		HADXZAV	08	HAD011E	01	2	TS4	A2		04A		
01112		J2119	08		J2124	07				168	9		HADXZAV	09	HAD071E	01	2	TS4	A2		04A		
01113		J2124	07							168	9		HADXZAV	10	HADXZAV	00	1	THI	A5		04B		
01114		J2120	07		J2109	08				168	9		HAD010E	01	HAD010E	00	1	TS4	A1		05B		
01115		J2109	08							168	9		HAD010E	02	HA1AAA	01	1	TQ2	A1		06A		
01116		J2120	11		J2108	04				168	9		HAD011E	01	HAD011E	00	1	TS4	A2		07B		
01117		J2108	04							168	9		HAD011E	02	HAD01AV	01	1	THI	A3		02A		
										****		SIGNAL	(HAD012E)		IS ON THE		NEXT PAGE	****					

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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UNIT ASSEMBLY NO. 10281451  
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RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIA	PIA	PREFIX	CONNECTOR	PIA	PIA	WIRE	WIRE	WIRE	WIRE										
01118	J2120	13			J2117	06			168	9			HAD012E	01	HAD012E	00	1	TS4	A3		07A	
01119	J2117	06							168	9			HAD012E	02	HAIABA	01	1	TT3	A1		05A	
01120	J2120	10			J2108	22			168	9			HAD013E	01	HAD013E	00	1	TS4	A4		05A	
01121	J2108	22							168	9			HAD013E	02	HAI02AV	01	1	THI	B1		14A	
01122	J2120	21			J2109	03			168	9			HAD020E	01	HAD020E	00	1	TS4	B1		11B	
01123	J2109	03							168	9			HAD020E	02	HAIACA	01	1	TQ2	A3		02A	
01124	J2120	27			J2106	40			168	9			HAD021E	01	HAD021E	00	1	TS4	B2		13B	
01125	J2106	40							168	9			HAD021E	02	HAIADA	01	1	TQ2	C1		19A	
01126	J2120	25			J2117	29			168	9			HAD022E	01	HAD022E	00	1	TS4	B3		14A	
03274	J2117	29							168	9			HAD022E	02	HAIAEA	01	1	TT3	C2		14B	A05
01128	J2120	24			J2117	35			168	9			HAD023E	01	HAD023E	00	1	TS4	B4		12A	A05
03261	J2117	35							168	9			HAD023E	02	HAIATA	01	2	TT3	C3		17B	A05
01130	J2120	35			J2108	38			168	9			HAD030E	01	HAD030E	00	1	TS4	C1		17B	
01131	J2108	38							168	9			HAD030E	02	HAI03AV	01	1	THI	C1		20A	
01132	J2120	39			J2108	61			168	9			HAD031E	01	HAD031E	00	1	TS4	C2		19B	
01133	J2108	61							168	9			HAD031E	02	HAI04AV	01	1	THI	E2		31A	
01134	J2120	42			J2117	52			168	9			HAD032E	01	HAD032E	00	1	TS4	C3		20A	
01135	J2117	52							168	9			HAD032E	02	HAIAGA	01	1	TT3	D1		24A	
01136	J2120	38			J2109	23			168	9			HAD033E	01	HAD033E	00	1	TS4	C4		18A	
01137	J2109	23							168	9			HAD033E	02	HAI05A	01	1	TQ2	B4		11B	
01138	J2120	47			J2109	41			168	9			HAD040E	01	HAD040E	00	1	TS4	D1		25B	
01139	J2109	41							168	9			HAD040E	02	HAI08A	01	1	TQ2	D3		22B	
03247	J2109	31			J2120	51			168	9			HAD041E	00	HAI06A	01	2	TQ2	C3		15B	A02
01140	J2120	51							168	9			HAD041E	01	HAD041E	00	1	TS4	D2		27B	A02
01142	J2135	49			J2120	56			168	9			HAD042E	01	HAI0AIA	00	1	TD4	D1		26B	
01143	J2120	56							168	9			HAD042E	02	HAD042E	00	1	TS4	D3		26A	
01144	J2120	52			J2108	59			168	9			HAD043E	01	HAD043E	00	1	TS4	D4		24A	
01145	J2108	59							168	9			HAD043E	02	HAI07AV	01	1	THI	E5		31B	
01146	J2120	61			J2106	18			168	9			HAD050E	01	HAD050E	00	1	TS4	E1		31B	A05
03234	J2106	18							168	9			HAD050E	02	HAI08A	01	1	TQ2	B2		10A	A05
01148	J2120	65			J2117	41			168	9			HAD051E	01	HAD051E	00	1	TS4	E2		33B	
01149	J2117	41							168	9			HAD051E	02	HAI0AJA	01	1	TT3	D2		22B	
01150	J2120	68			J2135	14			168	9			HAD052E	01	HAD052E	00	1	TS4	E3		33A	A05
03321	J2135	14							168	9			HAD052E	02	HAI0AKA	01	1	TD4	B2		09A	A05

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEC NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GRP	LOAD OR POWER PLANE	TEST-POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIK	EN TO	PREFIX	CONNECTOR	PIK	EN TO	MULTI GROUP	CODE	COLOR	IDENT											
01152		J2120	64		J2106	59				168	9		HAD053E	01	HAD053E	00	1	TS4	E4		31A		
01153		J2106	59							168	9		HAD053E	02	HAIALA	01	1	TQ2	E4		31B		
01154		J2120	75		J2108	76				168	9		HAD060E	01	HAD060E	00	1	TS4	F1		37B		
01155		J2108	76							168	9		HAD060E	02	HAI09AV	01	1	THI	F5		37A		
01156		J2120	79		J2108	75				168	9		HAD061E	01	HAD061E	00	1	TS4	F2		39B		
01157		J2108	75							168	9		HAD061E	02	HAI10AV	01	1	THI	F6		39A		
01158		J2120	80		J2109	71				168	9		HAD062E	01	HAD062E	00	1	TS4	F3		39A		
01159		J2109	71							168	9		HAD062E	02	HAI8AA	01	1	TQ2	F2		36A		
01160		J2120	76		J2106	76				168	9		HAD063E	01	HAD063E	00	1	TS4	F4		37A		
01161		J2106	76							168	9		HAD063E	02	HAI11A	01	1	TQ2	F4		37A		
01162		J2119	07		J2114	08				168	9		HAD070E	01	HAD070E	00	1	TS4	A1		05B		
01163		J2114	08							168	9		HAD070E	02	HAI8BA	01	1	TQ2	A1		06A		
01164		J2119	11		J2112	21				168	9		HAD071E	01	HAD071E	00	1	TS4	A2		07B		
01165		J2112	21							168	9		HAD071E	02	HAI1ZAV	01	1	THI	B5		11B		
01166		J2119	13		J2117	01				168	9		HAD072E	01	HAD072E	00	1	TS4	A3		07A		
01167		J2117	01							168	9		HAD072E	02	HAI8CA	01	1	TT3	A2		02B		
01168		J2119	10		J2112	27				168	9		HAD073E	01	HAD073E	00	1	TS4	A4		05A		
01169		J2112	27							168	9		HAD073E	02	HAI13AV	01	1	THI	B6		13B		
01170		J2119	21		J2106	17				168	9		HAD080E	01	HAD080E	00	1	TS4	B1		11B		A05
03235		J2106	17							168	9		HAD080E	02	HAI14A	01	1	TQ2	B3		08B		A05
01172		J2119	27		J2114	04				168	9		HAD081E	01	HAD081E	00	1	TS4	B2		13B		
01173		J2114	04							168	9		HAD081E	02	HAI8DA	01	1	TQ2	A2		04A		
01174		J2119	25		J2114	03				168	9		HAD082E	01	HAD082E	00	1	TS4	B3		14A		
01175		J2114	03							168	9		HAD082E	02	HAI8EA	01	1	TQ2	A3		02A		
01176		J2119	24		J2114	24				168	9		HAD083E	01	HAD083E	00	1	TS4	B4		12A		
01177		J2114	24							168	9		HAD083E	02	HAI8FA	01	1	TQ2	B1		13A		
01178		J2119	35		J2106	55				168	9		HAD090E	01	HAD090E	00	1	TS4	C1		17B		A06
02984		J2106	55							168	9		HAD090E	02	HAI15A	01	2	TQ2	E3		29B		C02
01180		J2119	39		J2114	18				168	9		HAD091E	01	HAD091E	00	1	TS4	C2		19B		
01181		J2114	18							168	9		HAD091E	02	HAI8GA	01	1	TQ2	B2		10A		
01182		J2119	42		J2114	17				168	9		HAD092E	01	HAD092E	00	1	TS4	C3		20A		
01183		J2114	17							168	9		HAD092E	02	HAI8HA	01	1	TQ2	B3		08B		
												****	SIGNAL	(HAD093E	IS ON THE NEXT PAGE				****				

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAD093E  
 DATE 09-01-82 PAGE 25

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PC	PREFIX	CONNECTOR	PIN	PC	MULTI-GROUP	CODE	COLOR	IDENT											
01184		J2119	38			J2114	59			168	9		HAD093E	01	HAD093E	00	1	TS4	C4		18A		
01185		J2114	59			J2114	59			168	9		HAD093E	02	HAI16A	01	1	TQ2	E4		31B		
01186		J2118	07			J2114	23			168	9		HAD100E	01	HAD100E	00	1	TS4	A1		05B		
01187		J2114	23			J2114	23			168	9		HAD100E	02	HAI8IA	01	1	TQ2	B4		11B		
01188		J2118	11			J2112	51			168	9		HAD101E	01	HAD101E	00	1	TS4	A2		07B		
01189		J2112	51			J2112	51			168	9		HAD101E	02	HAI17AV	01	1	THI	D6		27B		
01190		J2118	13			J2117	45			168	9		HAD102E	01	HAD102E	00	1	TS4	A3		07A		
01191		J2117	45			J2117	45			168	9		HAD102E	02	HAI8JA	01	1	TY3	D3		24B		
01192		J2118	10			J2112	64			168	9		HAD103E	01	HAD103E	00	1	TS4	A4		05A		
01193		J2112	64			J2112	64			168	9		HAD103E	02	HAI18AV	01	1	THI	E1		33A		
01194		J2118	21			J2106	24			168	9		HAD110E	01	HAD110E	00	1	TS4	B1		11B		A05
03237		J2106	24			J2106	24			168	9		HAD110E	02	HAI19A	01	1	TQ2	B1		13A		A05
01196		J2118	27			J2114	68			168	9		HAD111E	01	HAD111E	00	1	TS4	B2		13B		
01197		J2114	68			J2114	68			168	9		HAD111E	02	HAI8KA	01	1	TQ2	E1		32A		
01198		J2118	25			J2114	62			168	9		HAD112E	01	HAD112E	00	1	TS4	B3		14A		
01199		J2114	62			J2114	62			168	9		HAD112E	02	HAI8CA	01	1	TQ2	E2		29A		
01200		J2118	24			J2114	53			168	9		HAD113E	01	HAD113E	00	1	TS4	B4		12A		
01201		J2114	53			J2114	53			168	9		HAD113E	02	HAI8BA	01	1	TQ2	E3		28B		
01202		J2118	35			J2112	62			168	9		HAD120E	01	HAD120E	00	1	TS4	C1		17B		
01203		J2112	62			J2112	62			168	9		HAD120E	02	HAI20AV	01	1	THI	E3		29A		
01204		J2118	39			J2114	77			168	9		HAD121E	01	HAD121E	00	1	TS4	C2		19B		
01205		J2114	77			J2114	77			168	9		HAD121E	02	HAI8CA	01	1	TQ2	F1		38B		
01206		J2118	42			J2114	71			168	9		HAD122E	01	HAD122E	00	1	TS4	C3		20A		
01207		J2114	71			J2114	71			168	9		HAD122E	02	HAI8DA	01	1	TQ2	F2		36A		
01208		J2118	38			J2109	65			168	9		HAD123E	01	HAD123E	00	1	TS4	C4		18A		
01209		J2109	65			J2109	65			168	9		HAD123E	02	HAI21A	01	1	TQ2	F3		34B		
01210		J2118	47			J2114	11			168	9		HAD130E	01	HAD130E	00	1	TS4	D1		25B		
01211		J2114	11			J2114	11			168	9		HAD130E	02	HAI8EA	01	1	TQ2	A4		05B		
01212		J2118	51			J2114	40			168	9		HAD131E	01	HAD131E	00	1	TS4	D2		27B		
01213		J2114	40			J2114	40			168	9		HAD131E	02	HAI8FA	01	1	TQ2	C1		19A		
01214		J2118	56			J2117	09			168	9		HAD132E	01	HAD132E	00	1	TS4	D3		26A		
01215		J2117	09			J2117	09			168	9		HAD132E	02	HAI8GA	01	1	TY3	A3		04B		
01216		J2118	52			J2116	23			168	9		HAD133E	01	HAD133E	00	1	TS4	D4		24A		
01217		J2116	23			J2116	23			168	9		HAD133E	02	HAI22AV	01	1	THI	B2		12A		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

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 DATE 09-01-82 PAGE 26

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CPT OR CHIP TYPE	PROP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	INFO	PREFIX	CONNECTOR	PIN	INFO	MULTI GROUP	CODE	COLOR	ISLNT										
01218 03236	J2118 J2106	61 23			J2106	23				168 168	9 9			HAD140E HAD140E	01 02	HAD140E HA123A	00 01	1 1	TS4 TQ2	E1 B4	31B 11B	A05 A05
01220 01221	J2118 J2114	65 34			J2114	34				168 168	9 9			HAD141E HAD141E	01 02	HAD141E HA1CHA	00 01	1 1	TS4 TQ2	E2 C2	33B 16A	
01222 01223	J2118 J2114	68 29			J2114	29				168 168	9 9			HAD142E HAD142E	01 02	HAD142E HA1CIA	00 01	1 1	TS4 TQ2	E3 C3	33A 14B	
01224 01225	J2118 J2114	64 35			J2114	35				168 168	9 9			HAD143E HAD143E	01 02	HAD143E HA1CJA	00 01	1 1	TS4 TQ2	E4 C4	31A 17B	
01226 01227	J2118 J2116	75 17			J2116	17				168 168	9 9			HAD150E HAD150E	01 02	HAD150E HA124AV	00 01	1 1	TS4 THI	F1 B4	37B 09B	
01228 01229	J2118 J2116	79 21			J2116	21				168 168	9 9			HAD151E HAD151E	01 02	HAD151E HA125AV	00 01	1 1	TS4 THI	F2 B5	39B 11B	
01230 01231	J2118 J2114	80 54			J2114	54				168 168	9 9			HAD152E HAD152E	01 02	HAD152E HA1CKA	00 01	1 1	TS4 TQ2	F3 D1	39A 25A	
01232 01233	J2118 J2109	76 42			J2109	42				168 168	9 9			HAD153E HAD153E	01 02	HAD153E HA126A	00 01	1 2	TS4 TQ2	F4 C1	37A 20A	
01234 01235	J2119 J2114	47 48			J2114	48				168 168	9 9			HAD160E HAD160E	01 02	HAD160E HA1CLA	00 01	1 1	TS4 TQ2	D1 D2	25B 22A	
01236 01237	J2119 J2114	51 41			J2114	41				168 168	9 9			HAD161E HAD161E	01 02	HAD161E HA1CMA	00 01	1 1	TS4 TQ2	D2 D3	27B 22B	
01238 01239	J2119 J2117	56 38			J2117	38				168 168	9 9			HAD162E HAD162E	01 02	HAD162E HA1CNA	00 01	1 1	TS4 TT3	D3 C1	26A 18A	
01240 01241	J2119 J2118	52 41			J2116	41				168 168	9 9			HAD163E HAD163E	01 02	HAD163E HA127AV	00 01	1 1	TS4 THI	D4 D4	24A 23B	
01242 01243	J2119 J2116	61 45			J2116	45				168 168	9 9			HAD170E HAD170E	01 02	HAD170E HA128AV	00 01	1 1	TS4 THI	E1 D5	31B 25B	
01244 01245	J2119 J2114	65 47			J2114	47				168 168	9 9			HAD171E HAD171E	01 02	HAD171E HA1CPA	00 01	1 1	TS4 TQ2	E2 D4	33B 25B	
01246 01247	J2119 J2114	68 65			J2114	65				168 168	9 9			HAD172E HAD172E	01 02	HAD172E HA1CQA	00 01	1 1	TS4 TQ2	E3 F3	33A 34B	
01248 01249	J2119 J2114	64 76			J2114	76				168 168	9 9			HAD173E HAD173E	01 02	HAD173E HA1CRA	00 01	1 1	TS4 TQ2	E4 F4	31A 37A	
										****				SIGNAL (HAD180E)		IS ON THE			NEXT PAGE	****		

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAD180E  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 27

RECORD NUMBER	FROM			TO			WIRE			SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PIN	CONNECTOR	PIN	CODE	COLOR	IDENT										
01250	J2119	75	168	J2106	35	168	9		HAD180E	01	HAD180E	00	1	TS4	F1		37B	A05	
03233	J2106	35	168			168	9		HAD180E	02	HAI29A	01	1	TQ2	C4		17B	A05	
01252	J2119	79	168	J2116	64	168	9		HAD181E	01	HAD181E	00	1	TS4	F2		39B		
01253	J2116	64	168			168	9		HAD181E	02	HAI30AV	01	1	THI	E1		33A		
01254	J2119	80	168	J2109	78	168	9		HAD182E	01	HAD182E	00	1	TS4	F3		39A	A05	
01257	J2109	78	168			168	9		HAD182E	02	HAI31A	01	2	TQ2	F4		38A	A05	
01256	J2119	76	168	J2116	61	168	9		HAD183E	01	HAD183E	00	1	TS4	F4		37A	A05	
01255	J2116	61	168			168	9		HAD183E	02	HAI32AV	01	1	THI	E2		31A	A05	
01258	J2143	57	168	J2141	75	168	9		HAEBCA	01	HAEBCA	00	1	TQ2	E3		30B	B01	
03408	J2141	75	168			168	9		HAEBCOV	02	HAEBCOV	01	1	THI	F6		39A	B01	
03657	J2141	77	168	J2138	73	168	9		HAEBCOV	01	HAEBCOV	00	1	THI	F6		38A	B01	
03327	J2138	73	168			168	9		HAEBCOV	02	HAEBDA	01	2	TQ2	F2		36B	B01	
03638	J2138	72	168	J2135	77	168	9		HAEBDA	01	HAEBDA	00	1	TQ2	F2		34A	B01	
01259	J2135	77	168			168	9		HAEBDA	02	HAENES	01	2	TQ4	F1		38B	B01	
01260	J2130	21	168	J2130	23	168	9		HAECMOV	01	HAGA17V101	01	1	R05	A7				
01261	J2130	23	168	J2133	23	168	9		HAECMOV	02	HAGA18V101	01	1	R05	A8				
01262	J2133	23	168	J2133	21	168	9		HAECMOV	03	HAGA48V101	01	1	R05	A8				
01263	J2133	21	168	J2137	21	168	9		HAECMOV	04	HAGA47V101	01	1	R05	A7				
01264	J2137	21	168	J2137	23	168	9		HAECMOV	05	HAGA77V101	01	1	R05	A7				
01265	J2137	23	168	J2137	45	168	9		HAECMOV	06	HAGA78V101	01	1	R05	A8				
01266	J2137	45	168	J2136	48	168	9		HAECMOV	07	HAGA87V101	01	1	R05	B7				
01267	J2136	48	168	J2137	47	168	9		HAECMOV	08	HAECMOV	00	1	THI	D3		21A	ENA CKT MASK PROM	
01268	J2137	47	168	J2137	63	168	9		HAECMOV	09	HAGA88V101	01	1	R05	B8				
01269	J2137	63	168	J2137	65	168	9		HAECMOV	10	HAGA97V101	01	1	R05	C7				
01270	J2137	65	168	J2133	65	168	9		HAECMOV	11	HAGA98V101	01	1	R05	C8				
01271	J2133	65	168	J2133	63	168	9		HAECMOV	12	HAGA68V101	01	1	R05	C8				
01272	J2133	63	168	J2133	47	168	9		HAECMOV	13	HAGA67V101	01	1	R05	C7				
01273	J2133	47	168	J2133	45	168	9		HAECMOV	14	HAGA58V101	01	1	R05	B8				
01274	J2133	45	168	J2130	45	168	9		HAECMOV	15	HAGA57V101	01	1	R05	B7				
01275	J2130	45	168	J2130	47	168	9		HAECMOV	16	HAGA27V101	01	1	R05	B7				
01276	J2130	47	168	J2130	63	168	9		HAECMOV	17	HAGA28V101	01	1	R05	B8				
01277	J2130	63	168	J2130	65	168	9		HAECMOV	18	HAGA37V101	01	1	R05	C7				
01278	J2130	65	168			168	9		HAECMOV	19	HAGA38V101	01	1	R05	C8				
01279	J2135	69	168	J2134	61	168	9		HAENAR	01	HAENAR	00	1	TD4	F2		35A		
01280	J2134	61	168			168	9		HAENAR	02	HAENAS	01	2	TQ2	E4		32B		
01281	J2144	20	168	J2144	38	168	9		HAENAS	01	HAET4P	01	1	TDD	DP		11A		
01282	J2144	38	168	J2143	68	168	9		HAENAS	02	HAET5P	01	1	TDD	EP		18A		
01283	J2143	68	168	J2143	64	168	9		HAENAS	03	HAENRO	01	1	TQ2	E1		32A		
01284	J2143	64	168	J2139	50	168	9		HAENAS	04	HAETCA	01	2	TQ2	E2		30A		
01285	J2139	50	168	J2139	63	168	9		HAENAS	05	HAACMIU	01	5	OBC	C1		24A		
01286	J2139	63	168	J2138	79	168	9		HAENAS	06	HAACNIU	01	5	OBC	D1		31A		

\*\*\*\* SIGNAL HAENAS IS ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAENAS  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 28

RECORD NUMBER	FROM				TO				WIRE			SFC INST. MISC	SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO		
	PREFIX	CONNECTOR	PIN	SH. TEL	PREFIX	CONNECTOR	PIN	SH. TEL	MULTI GROUP	CODE	COLOR												IDENT	
01287		J2138	79		J2135	71				168	9		HAENAS	07	HAENER	01	2	TQ2	F1		398			
01288		J2135	71		J2134	63				168	9		HAENAS	08	HAENAR	01	1	TD4	F2		36A			
01289		J2134	63							168	9		HAENAS	09	HAENAS	00	1	TQ2	E4		338	IC CKT CTR ENA		
01290		J2135	59		J2117	69				168	9		HAENDO	01	HAENDO	00	1	TD4	E1		31B			
01291		J2117	69							168	9		HAENDO	02	HAEGCA	01	1	TT3	F3		35A			
01292		J2138	75		J2135	79				168	9		HAENER	01	HAENER	00	1	TQ2	F1		37B			
01293		J2135	79		J2101	75				168	9		HAENER	02	HAENES	01	4	TD4	F1		398		C01	
03485		J2101	75							168	9		HAENER	03	HAENES	01		FTH						C01
01294		J2144	34		J2138	77				168	9		HAENES	01	HAFTCI	01	1	TDD	F1		16A			
01295		J2138	77		J2135	76				168	9		HAENES	02	HAENER	00	1	TQ2	F1		388			
01296		J2135	76							168	9		HAENES	03	HAENES	01	1	TD4	F1		37A			A04
01298		J2144	04		J2144	06				168	9		HAENRAV	01	HAET2P	01	1	TDD	BP		04A			
01299		J2144	06		J2144	22				168	9		HAENRAV	02	HAET1P	01	1	TDD	AP		05A			
01300		J2144	22		J2141	14				168	9		HAENRAV	03	HAET3P	01	1	TDD	CP		12A			
01301		J2141	14							168	9		HAENRAV	04	HAENRAV	00	1	THI	B4		08B			
01302		J2143	66		J2141	17				168	9		HAENRO	01	HAENRO	00	1	TQ2	E1		31A			
01303		J2141	17							168	9		HAENRO	02	HAENRAV	01	1	THI	B4		09B			
01304		J2124	38		J2124	27				168	9		HAEN1A	01	HAGABAV	01	1	THI	C1		20A			
01305		J2124	27		J2135	23				168	9		HAEN1A	02	HAGAAAV	01	1	THI	B6		13B			
01306		J2135	23		J2141	64				168	9		HAEN1A	03	HAEN1A	00	1	TD4	B1		11B			
01307		J2141	64							168	9		HAEN1A	04	HAEN10V	01	1	THI	E1		33A			
01308		J2126	31		J2126	37				168	9		HAEN10V	01	HAG11A	01	2	TQ2	C3		15B			
01309		J2126	37		J2126	36				168	9		HAEN10V	02	HAG12A	01	2	TQ2	C4		18B			
01310		J2126	36		J2126	42				168	9		HAEN10V	03	HAG10A	01	2	TQ2	C2		17A			
01311		J2126	42		J2131	48				168	9		HAEN10V	04	HAG09A	01	2	TQ2	C1		20A			
01312		J2131	48		J2138	74				168	9		HAEN10V	05	HAGACA	01	1	TQ2	O2		22A			A04
03360		J2138	74		J2141	66				168	9		HAEN10V	055	HACKNO	01	2	TQ2	F3		35B			A04
01313		J2141	66							168	9		HAEN10V	06	HAEN10V	00	1	THI	E1		32A	CT1		
01314		J2131	47		J2131	56				168	9		HAEN2A	01	HAGAGO	01	1	TQ2	D4		25B			
01315		J2131	56		J2141	61				168	9		HAEN2A	02	HAGAF0	01	2	TQ2	D1		26A			
01316		J2141	61		J2143	14				168	9		HAEN2A	03	HAEN20V	01	1	THI	E2		31A			
01317		J2143	14							168	9		HAEN2A	04	HAEN2A	00	1	TQ2	B2		09A			
01318		J2134	04		J2131	41				168	9		HAEN20V	01	HAGAHA	01	1	TQ2	A2		04A			
01319		J2131	41		J2141	63				168	9		HAEN20V	02	HAGADA	01	1	TQ2	D3		22B			
01320		J2141	63							168	9		HAEN20V	03	HAEN20V	00	1	THI	E2		30A	CT2		
01321		J2143	21		J2141	62				168	9		HAEN3A	01	HAEN3A	00	1	TQ2	B3		10B			
01322		J2141	62		J2138	70				168	9		HAEN3A	02	HAEN30V	01	1	THI	E3		29A			
01323		J2138	70							168	9		HAEN3A	03	HAGAKO	01	2	TQ2	E1		33A			
01324		J2141	60		J2134	62				168	9		HAEN30V	01	HAEN30V	00	1	THI	E3		28A	CT3		
												***	SIGNAL	{HAEN30V	IS ON THE NEXT PAGE ****									

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAEN30V  
 DATE 09-01-82 PAGE 29

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTORS	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SIZE	MULTI GROUP	CODE	COLOR												IDENT
01325		J2134	62		J2134	03			168	9		HAEN30V	02	HAGALA	01	1	TQ2	E2	29A			
01326		J2134	03		J2134	03			168	9		HAEN30V	03	HAGAIA	01	1	TQ2	A3	02A			
01327		J2143	27		J2141	55			168	9		HAEN4A	01	HAEN4A	00	1	TQ2	84	13B			
01328		J2141	55		J2134	70			168	9		HAEN4A	01	HAEN40V	01	1	THI	E4	29B			
01329		J2134	70						168	9		HAEN4A	03	HAGAPO	01	2	TQ2	E1	33A			
01344		J2138	62		J2141	56			168	9		HAEN40V	00	HAGARA	01	1	TQ2	E2	29A		A01	
01330		J2141	56		J2134	53			168	9		HAEN40V	01	HAEN40V	00	1	THI	E4	28B	CT4		
01331		J2134	53						168	9		HAEN40V	02	HAGAMA	01	1	TQ2	E3	28B			
01332		J2143	38		J2141	59			168	9		HAEN5A	01	HAEN5A	00	1	TQ2	C1	18A			
01333		J2141	59		J2134	77			168	9		HAEN5A	02	HAEN50V	01	1	THI	E5	31B			
01334		J2134	77						168	9		HAEN5A	03	HAGATO	01	1	TQ2	F1	38B			
01335		J2143	59		J2141	57			168	9		HAEN50V	01	HAGAQA	01	1	TQ2	E4	31B			
01336		J2141	57		J2134	71			168	9		HAEN50V	02	HAEN50V	00	1	THI	E5	30B	CT5		
01337		J2134	71		J2117	71			168	9		HAEN50V	03	HAGAAU	01	1	TQ2	F2	36A			
01338		J2117	71						168	9		HAEN50V	04	HAESCA	01	2	TT3	F2	36A			
01339		J2143	30		J2141	65			168	9		HAEN6A	01	HAEN6A	00	1	TQ2	C2	15A		A05	
01340		J2141	65		J2138	53			168	9		HAEN6A	02	HAEN60V	01	1	THI	E6	33B			
01343		J2138	53						168	9		HAEN6A	03	HAGAYO	01	1	TQ2	E3	28B		A05	
01341		J2117	78		J2134	65			168	9		HAEN60V	01	HAEGCA	01	3	TT3	F3	38A		A05	
01342		J2134	65		J2141	68			168	9		HAEN60V	02	HAGAVA	01	1	TQ2	F3	34B			
01345		J2141	68						168	9		HAEN60V	05	HAEN60V	00	1	THI	E6	32B	CT6	A05	
01346		J2144	01		J2144	10			168	9		HAETCA	01	HAET2N	01	1	TDD	8N	02B			
01347		J2144	10		J2144	26			168	9		HAETCA	02	HAET1N	01	1	TDD	8N	07A			
01348		J2144	26		J2143	60			168	9		HAETCA	03	HAET3N	01	1	TDD	8N	14A			
01349		J2143	60						168	9		HAETCA	04	HAETCA	00	1	TQ2	E2	28A			
01350		J2144	11		J2143	42			168	9		HAET1P	01	HAET1P	00	1	TDD	8P	05B			
01351		J2143	42		J2141	35			168	9		HAET1P	02	HAEN5A	01	2	TQ2	C1	20A			
01352		J2141	35		J2135	24			168	9		HAET1P	03	HAET10V	01	1	THI	C2	18A			
01353		J2135	24						168	9		HAET1P	04	HAEN1A	01	2	TD4	81	13A			
01354		J2144	13		J2143	18			168	9		HAET1Q	01	HAET1Q	00	1	TDD	AQ	06B			
01355		J2143	18		J2143	23			168	9		HAET1Q	02	HAEN2A	01	1	TQ2	B2	10A			
01356		J2143	23						168	9		HAET1Q	03	HAEN4A	01	1	TQ2	B4	11B			
01357		J2144	05		J2141	37			168	9		HAET10V	01	HAET2I	01	1	TDD	8I	03B			
01358		J2141	37						168	9		HAET10V	02	HAET10V	00	1	THI	C2	17A			
01359		J2144	09		J2143	20			168	9		HAET2P	01	HAET2P	00	1	TDD	8P	04B			
01360		J2143	20		J2143	36			168	9		HAET2P	02	HAEN2A	01	2	TQ2	B2	11A			
01361		J2143	36		J2141	36			168	9		HAET2P	03	HAEN6A	01	2	TQ2	C2	17A			
01362		J2141	36						168	9		HAET2P	04	HAET20V	01	1	THI	C3	16A			
											****	SIGNAL	HAET2Q			IS ON THE	NEXT PAGE	****				



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAET2Q  
 DATE 09-01-82 PAGE 30

RECORD NUMBER	FROM			EN FC	TO			EN FC	WIRE				SPEC. INET. WIRE	SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	PROP.	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		MULTI GROUP	CODE	COLOR	IDENT											
01363		J2144	07		J2143	17			168	9			HAET2Q	01	HAET2Q	00	1	TDD	B0		03A		
01364		J2143	17		J2143	40			168	9			HAET2Q	02	HAEN3A	01	1	TQ2	B3		08B		
01365		J2143	40						168	9			HAET2Q	03	HAEN5A	01	1	TQ2	C1		19A		
01366		J2144	24		J2141	34			168	9			HAET20V	01	HAET3I	01	1	TDD	C1		13A		
01367		J2141	34						168	9			HAET20V	02	HAET20V	00	1	THI	C3		15A		
01368		J2144	23		J2143	19			168	9			HAET3P	01	HAET3P	00	1	TDD	CP		11B		
01369		J2143	19		J2135	25			168	9			HAET3P	02	HAEN3A	01	2	TQ2	B3		09B		
01370		J2135	25						168	9			HAET3P	03	HAEN1A	01	3	TD4	B1		12B		
01371		J2143	34		J2144	25			168	9			HAET3Q	01	HAEN6A	01	1	TQ2	C2		16A		
01372		J2144	25		J2143	25			168	9			HAET3Q	02	HAET3Q	00	1	TDD	CQ		12B		
01373		J2143	25		J2141	29			168	9			HAET3Q	03	HAEN4A	01	2	TQ2	B4		12B		
01374		J2141	29						168	9			HAET3Q	04	HAET30V	01	1	THI	C4		15B		
01375		J2144	08		J2144	14			168	9			HAET30V	01	HAET1I	01	1	TDD	AI		06A		
01376		J2144	14		J2144	42			168	9			HAET30V	02	HAET4N	01	1	TDD	DN		09A		
01377		J2144	42		J2141	30			168	9			HAET30V	03	HAET5N	01	1	TDD	EN		20A		
01378		J2141	30						168	9			HAET30V	04	HAET30V	00	1	THI	C4		14B		
01379		J2117	77		J2117	68			168	9			HAET4P	01	HAE4CA	01	2	TT3	F1		38B		
01380		J2117	68		J2141	33			168	9			HAET4P	02	HAE1CA	01	2	TT3	E1		32A		
01381		J2141	33		J2144	21			168	9			HAET4P	03	HAET40V	01	1	THI	C5		17B		
01382		J2144	21						168	9			HAET4P	04	HAET4P	00	1	TDD	DP		10B		
01383		J2117	59		J2117	60			168	9			HAET4Q	01	HAE3CA	01	2	TT3	E3		31B		
01384		J2117	60		J2144	19			168	9			HAET4Q	02	HAE2CA	01	2	TT3	E2		28A		
01385		J2144	19						168	9			HAET4Q	03	HAET4Q	00	1	TDD	DQ		09B		
01386		J2144	40		J2141	31			168	9			HAET40V	01	HAET5I	01	1	TDD	EI		19A		
01387		J2141	31						168	9			HAET40V	02	HAET40V	00	1	THI	C5		16B		
01388		J2144	35		J2117	62			168	9			HAET5P	01	HAET5P	00	1	TDD	EP		17B		
01389		J2117	62		J2117	70			168	9			HAET5P	02	HAE2CA	01	3	TT3	E2		29A		
01390		J2117	70						168	9			HAET5P	03	HAE1CA	01	3	TT3	E1		33A		
01391		J2117	79		J2117	61			168	9			HAET5Q	01	HAE4CA	01	3	TT3	F1		39B		
01392		J2117	61		J2141	39			168	9			HAET5Q	02	HAE3CA	01	3	TT3	E3		32B		
01393		J2141	39		J2144	37			168	9			HAET5Q	03	HAET50V	01	1	THI	C6		19B		
01394		J2144	37						168	9			HAET5Q	04	HAET5Q	00	1	TDD	EQ		18B		
01395		J2144	18		J2141	42			168	9			HAET50V	01	HAET4I	01	1	TDD	DI		10A		
01396		J2141	42						168	9			HAET50V	02	HAET50V	00	1	THI	C6		18B		
01397		J2135	61		J2117	64			168	9			HAE1CA	01	HAENDO	01	1	TD4	E1		32B		
01398		J2117	64						168	9			HAE1CA	02	HAE1CA	00	1	TT3	E1		30A		
01399		J2135	66		J2117	55			168	9			HAE2CA	01	HAENDO	01	2	TD4	E1		31A		
01400		J2117	55						168	9			HAE2CA	02	HAE2CA	00	1	TT3	E2		29B		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAE2CA  
 DATE 09-01-82 PAGE 31

RECORD NUMBER	FROM			WIRE	TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	SIZE	MULTI GROUP	CODE	COLOR											
01401		J2135	68		J2117	63			168	9		HAE3CA	01	HAEND0	01	3	T04	E1		32A		
01402		J2117	63						168	9		HAE3CA	02	HAE3CA	00	1	TT3	E3		33B		
01403		J2135	70		J2117	73			168	9		HAE4CA	01	HAEND0	01	4	T04	E1		33A		
01404		J2117	73						168	9		HAE4CA	02	HAE4CA	00	1	TT3	F1		36B		
01405		J2143	70		J2135	75			168	9		HAE5CA	01	HAENR0	01	2	TQ2	E1		33A		
01406		J2135	75		J2117	74			168	9		HAE5CA	02	HAENES	01	1	TD4	F1		37B		
01407		J2117	74						168	9		HAE5CA	03	HAESCA	00	1	TT3	F2		35B		
01408		J2135	78		J2117	80			168	9		HAE6CA	01	HAENES	01	3	TD4	F1		38A		
01409		J2117	80						168	9		HAE6CA	02	HAE6CA	00	1	TT3	F3		39A		
01410		J2139	35		J2139	49			168	9		HAFBAAV	01	HAACN5U	01	1	DBC	C5		16B		
01411		J2139	49		J2136	68			168	9		HAFBAAV	02	HAACN5U	01	1	DBC	D5		24B		
01412		J2136	68		J2135	72			168	9		HAFBAAV	03	HAFBAAV	00	1	THI	E6		32B	(RST 11)*	
01413		J2135	72						168	9		HAFBAAV	04	HAENAR	01	2	TD4	F2		34A		
03690		J2144	45		J2101	72			168	9		HAFTBP	01	HAFTBP	00	1	TDD	HP		24B	C01	
03482		J2101	72						168	9		HAFTBP	02	HAFTBP			FTH				C01	
03689		J2144	43		J2101	70			168	9		HAFTBQ	01	HAFTBQ	00	1	TDD	HQ		23B	C01	
03480		J2101	70						168	9		HAFTBQ	02	HAFTBQ			FTH				C01	
01414		J2144	33		J2135	73			168	9		HAFTCP	01	HAFTCP	00	1	TDD	FP		16B	A04	
01415		J2135	73		J2112	55			168	9		HAFTCP	02	HAENAR	01	3	TD4	F2		36B	A04	
03254		J2112	55						168	9		HAFTCP	03	HAFTCOV	01	1	THI	E4		29B	A04	
03379		J2144	48		J2112	56			168	9		HAFTCOV	00C	HAFTB1	01	1	TDD	HI		22A	C01	
03622		J2112	56		J2101	38			168	9		HAFTCOV	01	HAFTCOV	00	1	THI	E4		28B	A04	
01297		J2101	38						168	9		HAFTCOV	02	HAFTCOV			FTH				A04	
01416		J2126	10		J2126	05			168	9		HAGAAAV	01	HAG01A	01	2	TQ2	A1		07A		
01417		J2126	05		J2126	07			168	9		HAGAAAV	02	HAG02A	01	2	TQ2	A2		03B		
01418		J2126	07		J2126	13			168	9		HAGAAAV	03	HAG03A	01	2	TQ2	A3		03A		
01419		J2126	13		J2124	26			168	9		HAGAAAV	04	HAG04A	01	2	TQ2	A4		06B		
01420		J2124	26						168	9		HAGAAAV	05	HAGAAAV	00	1	THI	B6		12B		
01421		J2126	19		J2126	20			168	9		HAGABAV	01	HAG07A	01	2	TQ2	B3		09B		
01422		J2126	20		J2126	26			168	9		HAGABAV	02	HAG06A	01	2	TQ2	B2		11A		
01423		J2126	26		J2126	25			168	9		HAGABAV	03	HAG05A	01	2	TQ2	B1		14A		
01424		J2126	25		J2124	40			168	9		HAGABAV	04	HAG08A	01	2	TQ2	B4		12B		
01425		J2124	40						168	9		HAGABAV	05	HAGABAV	00	1	THI	C1		19A		
01426		J2131	46		J2117	22			168	9		HAGACA	01	HAGACA	00	1	TQ2	D2		21A		
01427		J2117	22						168	9		HAGACA	02	HAGAE0	01	1	TT3	B1		12A		
01428		J2131	45		J2117	24			168	9		HAGADA	01	HAGADA	00	1	TQ2	D3		24B		
										****	SIGNAL	(HAGADA	IS ON THE	NEXT PAGE	****							

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGADA  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 32

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	OR FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIH	POS	PREFIX	CONNECTOR	PIH	POS	MULTI GROUP	CODE	COLOR											
01429		J2117	24							168	9		HAGADA	02	HAGAE0	01	2	TT3	B1		13A	
01441		J2126	64		J2126	55				168	9		HAGAE0	01	HAG18A	01	2	TQ2	E2		30A	A04
01443		J2126	55		J2117	20				168	9		HAGAE0	02	HAG19A	01	2	TQ2	E3		29B	A04
01432		J2117	20							168	9		HAGAE0	03	HAGAE0	00	1	TT3	B1		11A	
01433		J2131	52		J2126	49				168	9		HAGAF0	01	HAGAF0	00	1	TQ2	D1		24A	
01434		J2126	49		J2126	43				168	9		HAGAF0	02	HAG16A	01	2	TQ2	D4		26B	
01435		J2126	43							168	9		HAGAF0	03	HAG15A	01	2	TQ2	D3		23B	
01436		J2126	78		J2126	79				168	9		HAGAG0	01	HAG24A	01	2	TQ2	F4		38A	
01437		J2126	79		J2126	73				168	9		HAGAG0	02	HAG21A	01	2	TQ2	F1		39B	
01438		J2126	73		J2126	74				168	9		HAGAG0	03	HAG22A	01	2	TQ2	F2		36B	
01439		J2126	74		J2126	70				168	9		HAGAG0	04	HAG23A	01	2	TQ2	F3		35B	
01440		J2126	70		J2126	56				168	9		HAGAG0	05	HAG17A	01	2	TQ2	E1		33A	A04
01430		J2126	56		J2126	61				168	9		HAGAG0	06	HAG13A	01	2	TQ2	D1		26A	A04
01442		J2126	61		J2126	50				168	9		HAGAG0	07	HAG20A	01	2	TQ2	E4		32B	A04
01431		J2126	50		J2131	51				168	9		HAGAG0	08	HAG14A	01	2	TQ2	O2		23A	A04
01444		J2131	51							168	9		HAGAG0	09	HAGAG0	00	1	TQ2	D4		27B	
01445		J2134	01		J2117	14				168	9		HAGAHA	01	HAGAHA	00	1	TQ2	A2		02R	
01446		J2117	14							168	9		HAGAJ0	02	HAGAJ0	01	1	TT3	B2		09A	
01447		J2134	09		J2117	17				168	9		HAGAI0	01	HAGAI0	00	1	TQ2	A3		04B	
01448		J2117	17							168	9		HAGAJ0	02	HAGAJ0	01	2	TT3	B2		08B	
01459		J2131	20		J2131	19				168	9		HAGAJ0	01	HAG30A	01	2	TQ2	B2		11A	A04
01460		J2131	19		J2131	25				168	9		HAGAJ0	02	HAG31A	01	2	TQ2	B3		09B	A04
01461		J2131	25		J2131	26				168	9		HAGAJ0	03	HAG32A	01	2	TQ2	B4		12B	A04
01462		J2131	26		J2117	19				168	9		HAGAJ0	04	HAG29A	01	2	TQ2	B1		14A	A04
01453		J2117	19							168	9		HAGAJ0	05	HAGAJ0	00	1	TT3	B2		09B	
01454		J2138	66		J2134	25				168	9		HAGAK0	01	HAGAK0	00	1	TQ2	E1		31A	CT3 + BOMAN
01455		J2134	25		J2134	26				168	9		HAGAK0	02	HAG36A	01	2	TQ2	B4		12B	
01456		J2134	26		J2134	20				168	9		HAGAK0	03	HAG33A	01	2	TQ2	B1		14A	
01457		J2134	20		J2134	19				168	9		HAGAK0	04	HAG34A	01	2	TQ2	B2		11A	
01458		J2134	19		J2131	10				168	9		HAGAK0	05	HAG35A	01	2	TQ2	B3		09B	A04
01449		J2131	10		J2131	05				168	9		HAGAK0	06	HAG25A	01	2	TQ2	A1		07A	A04
01450		J2131	05		J2131	07				168	9		HAGAK0	07	HAG26A	01	2	TQ2	A2		03B	A04
01451		J2131	07		J2131	13				168	9		HAGAK0	08	HAG27A	01	2	TQ2	A3		03A	A04
01452		J2131	13							168	9		HAGAK0	09	HAG28A	01	2	TQ2	A4		06B	A04
01463		J2134	60		J2117	21				168	9		HAGALA	01	HAGALA	00	1	TQ2	E2		28A	
01464		J2117	21							168	9		HAGAL0	02	HAGANO	01	1	TT3	B3		10B	
01465		J2134	57		J2117	23				168	9		HAGAMA	01	HAGAMA	00	1	TQ2	E3		30B	
01466		J2117	23							168	9		HAGAM0	02	HAGANO	01	2	TT3	B3		11B	
01467		J2131	70		J2131	64				168	9		HAGANO	01	HAG41A	01	2	TQ2	E1		33A	
01468		J2131	64		J2131	61				168	9		HAGANO	02	HAG42A	01	2	TQ2	E2		30A	A04

\*\*\*\* SIGNAL (HAGANO) IS ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAGANO  
 DATE 09-01-82 PAGE 33

RECORD NUMBER	FROM			SH FC	TO			SH FC	WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		MULTI GROUP	CODE	COLOR												IDENT
01478		J2131	61		J2131	55			168	9		HAGANO	03	HAG44A	01	2	TQ2	E4		32B		A04	
01479		J2131	55		J2131	37			168	9		HAGANO	04	HAG43A	01	2	TQ2	E3		29B		A04	
01471		J2131	37		J2131	31			168	9		HAGANO	05	HAG40A	01	2	TQ2	C4		18B			
01472		J2131	31		J2117	27			168	9		HAGANO	06	HAG39A	01	2	TQ2	C3		15B			
01473		J2117	27						168	9		HAGANO	07	HAGANO	00	1	TT3	B3		13B			
01474		J2131	79		J2131	78			168	9		HAGAPO	01	HAG45A	01	2	TQ2	F1		39B			
01475		J2131	78		J2131	74			168	9		HAGAPO	02	HAG48A	01	2	TQ2	F4		38A			
01476		J2131	74		J2131	73			168	9		HAGAPO	03	HAG47A	01	2	TQ2	F3		35B			
01477		J2131	73		J2131	42			168	9		HAGAPO	04	HAG46A	01	2	TQ2	F2		36B		A04	
01469		J2131	42		J2131	36			168	9		HAGAPO	05	HAG37A	01	2	TQ2	C1		20A		A04	
01470		J2131	36		J2134	66			168	9		HAGAPO	06	HAG38A	01	2	TQ2	C2		17A		A04	
01480		J2134	66						168	9		HAGAPO	07	HAGAPO	00	1	TQ2	E1		31A			
01481		J2143	63		J2135	10			168	9		HAGAQA	01	HAGAQA	00	1	TQ2	E4		33B		A05	
03285		J2135	10						168	9		HAGAQA	03	HAGASO	01	3	TD4	A1		07A		A05	
01483		J2138	60		J2135	13			168	9		HAGARA	01	HAGARA	00	1	TQ2	E2		28A		A05	
03340		J2135	13						168	9		HAGARA	03	HAGASO	01	4	TD4	A1		06B		A05	
01485		J2138	03		J2138	36			168	9		HAGASO	01	HAG51A	01	1	TQ2	A3		02A		A04	
01496		J2138	36		J2138	42			168	9		HAGASO	02	HAG58A	01	2	TQ2	C2		17A		A04	
01497		J2138	42		J2138	11			168	9		HAGASO	03	HAG57A	01	2	TQ2	C1		20A		A04	
01488		J2138	11		J2138	19			168	9		HAGASO	04	HAG52A	01	1	TQ2	A4		05B			
01489		J2138	19		J2138	20			168	9		HAGASO	05	HAG55A	01	2	TQ2	B3		09B			
01490		J2138	20		J2138	26			168	9		HAGASO	06	HAG54A	01	2	TQ2	B2		11A			
01491		J2138	26		J2138	25			168	9		HAGASO	07	HAG53A	01	2	TQ2	B1		14A			
01492		J2138	25		J2135	11			168	9		HAGASO	08	HAG56A	01	2	TQ2	B4		12B		A05	
03631		J2135	11						168	9		HAGASO	09	HAGASO	00	1	TD4	A1		05B		A05	
01494		J2138	31		J2138	37			168	9		HAGATO	01	HAG59A	01	2	TQ2	C3		15B			
01495		J2138	37		J2138	04			168	9		HAGATO	02	HAG60A	01	2	TQ2	C4		18B		A04	
01486		J2138	04		J2138	08			168	9		HAGATO	03	HAG50A	01	1	TQ2	A2		04A		A04	
01487		J2138	08		J2134	75			168	9		HAGATO	04	HAG49A	01	1	TQ2	A1		06A		A04	
01498		J2134	75						168	9		HAGATO	05	HAGATO	00	1	TQ2	F1		37B			
01499		J2135	30		J2135	37			168	9		HAGAU	01	HAGAXO	01	1	TD4	C2		15A			
01500		J2135	37		J2134	72			168	9		HAGAU	02	HAGAU	01	1	TD4	C1		18B			
01501		J2134	72						168	9		HAGAU	03	HAGAU	00	1	TQ2	F2		34A			
01502		J2135	31		J2135	38			168	9		HAGAVA	01	HAGAXO	01	2	TD4	C2		15B			
01503		J2135	38		J2134	69			168	9		HAGAVA	02	HAGAWO	01	2	TD4	C1		18A			
01504		J2134	69						168	9		HAGAVA	03	HAGAVA	00	1	TQ2	F3		35A			
01519		J2134	43		J2138	50			168	9		HAGAWO	01	HAG71A	01	2	TQ2	D3		23B		A04	
01506		J2138	50		J2138	49			168	9		HAGAWO	02	HAG62A	01	2	TQ2	D2		23A			
01507		J2138	49		J2138	43			168	9		HAGAWO	03	HAG64A	01	2	TQ2	D4		26B			
01508		J2138	43		J2135	35			168	9		HAGAWO	04	HAG63A	01	2	TQ2	D3		23B			
01509		J2135	35						168	9		HAGAWO	05	HAGAWO	00	1	TD4	C1		17B			
****												SIGNAL	(HAGAXO)	IS ON THE NEXT PAGE ****									

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGAXO  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 34

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	IN	PREFIX	CONNECTOR	PIN	OUT	MULTI GROUP	CODE	COLOR	IDENT											
01510		J2134	37		J2134	31				168	9		HAGAXO	01	HAG68A	01	2	TQ2	C4		18B		
01511		J2134	31		J2135	33				168	9		HAGAXO	02	HAG67A	01	2	TQ2	C3		15B		
01512		J2135	33		J2134	36				168	9		HAGAXO	03	HAGAXO	00	1	TD4	C2		16B	(CT5 5IC)+(CT6 6I)	
01513		J2134	36		J2134	42				168	9		HAGAXO	04	HAG66A	01	2	TQ2	C2		17A		
01514		J2134	42		J2134	50				168	9		HAGAXO	05	HAG65A	01	2	TQ2	C1		20A		
01515		J2134	50		J2134	56				168	9		HAGAXO	06	HAG70A	01	2	TQ2	D2		23A		
01516		J2134	56							168	9		HAGAXO	07	HAG69A	01	2	TQ2	D1		26A		
01517		J2138	57		J2134	49				168	9		HAGAYO	01	HAGAYO	00	1	TQ2	E3		30B		
01518		J2134	49		J2134	78				168	9		HAGAYO	02	HAG72A	01	2	TQ2	D4		26B	801	
01484		J2134	78							168	9		HAGAYO	03	HAG61A	01	2	TQ2	F4		38A	801	
01520		J2130	15		J2129	05				168	9		HAGA11V1	01	HAGA11V1	00	1	R05	A1		T01		
01521		J2129	05		J2126	08				168	9		HAGA11V1	02				RR1	A1				
01522		J2126	08							168	9		HAGA11V1	03	HAG01A	01	1	TQ2	A1			06A	
01523		J2130	18		J2129	06				168	9		HAGA12V1	01	HAGA12V1	00	1	R05	A2		T02		
01524		J2129	06		J2126	04				168	9		HAGA12V1	02				RR1	A2				
01525		J2126	04							168	9		HAGA12V1	03	HAG02A	01	1	TQ2	A2			04A	
01526		J2130	20		J2129	07				168	9		HAGA13V1	01	HAGA13V1	00	1	R05	A3		T03		
01527		J2129	07		J2126	03				168	9		HAGA13V1	02				RR1	A3				
01528		J2126	03							168	9		HAGA13V1	03	HAG03A	01	1	TQ2	A3			02A	
01529		J2130	22		J2129	08				168	9		HAGA14V1	01	HAGA14V1	00	1	R05	A4		T04		
01530		J2129	08		J2126	11				168	9		HAGA14V1	02				RR1	A4				
01531		J2126	11							168	9		HAGA14V1	03	HAG04A	01	1	TQ2	A4			05B	
01532		J2129	09		J2130	24				168	9		HAGA15V1	01				RR1	A5				
01533		J2130	24		J2126	24				168	9		HAGA15V1	02	HAGA15V1	00	1	R05	A5		T05		
01534		J2126	24							168	9		HAGA15V1	03	HAG05A	01	1	TQ2	B1			13A	
01535		J2130	26		J2129	10				168	9		HAGA16V1	01	HAGA16V1	00	1	R05	A6		T06		
01536		J2129	10		J2126	18				168	9		HAGA16V1	02				RR1	A6				
01537		J2126	18							168	9		HAGA16V1	03	HAG06A	01	1	TQ2	B2			10A	
01538		J2130	29		J2129	17				168	9		HAGA17V1	01	HAGA17V1	00	1	R05	A7		T07		
01539		J2129	17		J2126	17				168	9		HAGA17V1	02				RR1	B1				
01540		J2126	17							168	9		HAGA17V1	03	HAG07A	01	1	TQ2	B3			08B	
01541		J2130	34		J2129	18				168	9		HAGA18V1	01	HAGA18V1	00	1	R05	A8		T08		
01542		J2129	18		J2126	23				168	9		HAGA18V1	02				RR1	B2				
01543		J2126	23							168	9		HAGA18V1	03	HAG08A	01	1	TQ2	B4			11B	
01544		J2129	19		J2130	38				168	9		HAGA21V1	01				RR1	B3				
01545		J2130	38		J2126	40				168	9		HAGA21V1	02	HAGA21V1	00	1	R05	B1		T09		
01546		J2126	40							168	9		HAGA21V1	03	HAG09A	01	1	TQ2	C1			19A	
01547		J2129	20		J2130	40				168	9		HAGA22V1	01				RR1	B4				
01548		J2130	40		J2126	34				168	9		HAGA22V1	02	HAGA22V1	00	1	R05	B2		T10		
										***	SIGNAL	(HAGA22V1)	IS ON THE	NEXT PAGE	****								

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAGA22V1  
 DATE 09-01-82 PAGE 35

RECORD NUMBER	FROM			TO			WIRE				WIRE IDENT	SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	MULTI GROUP	CODE	COLOR	IDENT											
01549		J2126	34					168	9			HAGA22V1	03	HAG10A	01	TQ2	C2		16A		
01550		J2130	42	J2129	24			168	9			HAGA23V1	01	HAGA23V1	00	R05	B3		T11		
01551		J2129	24	J2126	29			168	9			HAGA23V1	02			RR1	B5				
01552		J2126	29					168	9			HAGA23V1	03	HAG11A	01	TQ2	C3		14B		
01553		J2130	46	J2129	26			168	9			HAGA24V1	01	HAGA24V1	00	R05	B4		T12		
01554		J2129	26	J2126	35			168	9			HAGA24V1	02			RR1	B6				
01555		J2126	35					168	9			HAGA24V1	03	HAG12A	01	TQ2	C4		17B		
01556		J2129	23	J2130	48			168	9			HAGA25V1	01			RR1	C1				
01557		J2130	48	J2126	54			168	9			HAGA25V1	02	HAGA25V1	00	R05	B5		T13		
01558		J2126	54					168	9			HAGA25V1	03	HAG13A	01	TQ2	D1		25A		
01559		J2129	25	J2130	50			168	9			HAGA26V1	01			RR1	C2				
01560		J2130	50	J2126	48			168	9			HAGA26V1	02	HAGA26V1	00	R05	B6		T14		
01561		J2126	48					168	9			HAGA26V1	03	HAG14A	01	TQ2	D2		22A		
01562		J2130	52	J2129	29			168	9			HAGA27V1	01	HAGA27V1	00	R05	B7		T15		
01563		J2129	29	J2126	41			168	9			HAGA27V1	02			RR1	C3				
01564		J2126	41					168	9			HAGA27V1	03	HAG15A	01	TQ2	D3		22B		
01565		J2129	30	J2130	54			168	9			HAGA28V1	01			RR1	C4				
01566		J2130	54	J2126	47			168	9			HAGA28V1	02	HAGA28V1	00	R05	B8		T16		
01567		J2126	47					168	9			HAGA28V1	03	HAG16A	01	TQ2	D4		25B		
01568		J2129	38	J2130	62			168	9			HAGA31V1	01			RR1	C5				
01569		J2130	62	J2126	68			168	9			HAGA31V1	02	HAGA31V1	00	R05	C1		T17		
01570		J2126	68					168	9			HAGA31V1	03	HAG17A	01	TQ2	E1		32A		
01571		J2129	36	J2130	64			168	9			HAGA32V1	01			RR1	C6				
01572		J2130	64	J2126	62			168	9			HAGA32V1	02	HAGA32V1	00	R05	C2		T18		
01573		J2126	62					168	9			HAGA32V1	03	HAG18A	01	TQ2	E2		29A		
01574		J2130	66	J2129	35			168	9			HAGA33V1	01	HAGA33V1	00	R05	C3		T19		
01575		J2129	35	J2126	53			168	9			HAGA33V1	02			RR1	D1				
01576		J2126	53					168	9			HAGA33V1	03	HAG19A	01	TQ2	E3		28B		
01577		J2129	37	J2130	68			168	9			HAGA34V1	01			RR1	D2				
01578		J2130	68	J2126	59			168	9			HAGA34V1	02	HAGA34V1	00	R05	C4		T21		
01579		J2126	59					168	9			HAGA34V1	03	HAG20A	01	TQ2	E4		31B		
01580		J2129	39	J2130	70			168	9			HAGA35V1	01			RR1	D3				
01581		J2130	70	J2126	77			168	9			HAGA35V1	02	HAGA35V1	00	R05	C5		T20		
01582		J2126	77					168	9			HAGA35V1	03	HAG21A	01	TQ2	F1		38B		
01583		J2129	40	J2130	72			168	9			HAGA36V1	01			RR1	D4				
01584		J2130	72	J2126	71			168	9			HAGA36V1	02	HAGA36V1	00	R05	C6		T22		
01585		J2126	71					168	9			HAGA36V1	03	HAG22A	01	TQ2	F2		36A		
											****	SIGNAL	(HAGA37V1)	IS ON THE	NEXT PAGE	****					

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAGA37V1  
 DATE 09-01-82 PAGE 36

RECORD NUMBER	FROM			TO			WIRE				SPEC INST	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PIN	CONNECTOR	PIN	SH FE	MULTI GROUP	CODE	COLOR										IDENT	AND		
01586		J2129	42		J2130	74			168	9		HAGA37V1	01				RR1	D5					
01587		J2130	74		J2126	65			168	9		HAGA37V1	02	HAGA37V1	00	1	RR1	D5	C7		T23		
01588		J2126	65						168	9		HAGA37V1	03	HAG23A	01	1	TQ2	F3			34B		
01589		J2129	46		J2130	76			168	9		HAGA38V1	01				RR1	D6					
01590		J2130	76		J2126	76			168	9		HAGA38V1	02	HAGA38V1	00	1	RR1	D6	C8		T24		
01591		J2126	76						168	9		HAGA38V1	03	HAG24A	01	1	TQ2	F4			37A		
01592		J2133	15		J2132	19			168	9		HAGA41V1	01				RR1	A1					
01593		J2132	19		J2131	08			168	9		HAGA41V1	02	HAGA41V1	00	1	RR1	A1	B3		T01		
01594		J2131	08						168	9		HAGA41V1	03	HAG25A	01	1	TQ2	A1			06A		
01595		J2133	18		J2132	20			168	9		HAGA42V1	01	HAGA42V1	00	1	RR1	A2					
01596		J2132	20		J2131	04			168	9		HAGA42V1	02				RR1	A2	B4		T02		
01597		J2131	04						168	9		HAGA42V1	03	HAG26A	01	1	TQ2	A2			04A		
01598		J2133	20		J2132	24			168	9		HAGA43V1	01	HAGA43V1	00	1	RR1	A3					
01599		J2132	24		J2131	03			168	9		HAGA43V1	02				RR1	A3	B5		T03		
01600		J2131	03						168	9		HAGA43V1	03	HAG27A	01	1	TQ2	A3			02A		
01601		J2133	22		J2132	26			168	9		HAGA44V1	01	HAGA44V1	00	1	RR1	A4					
01602		J2132	26		J2131	11			168	9		HAGA44V1	02				RR1	A4	B6		T04		
01603		J2131	11						168	9		HAGA44V1	03	HAG28A	01	1	TQ2	A4			05B		
01604		J2133	24		J2132	23			168	9		HAGA45V1	01	HAGA45V1	00	1	RR1	A5					
01605		J2132	23		J2131	24			168	9		HAGA45V1	02				RR1	A5	C1		T05		
01606		J2131	24						168	9		HAGA45V1	03	HAG29A	01	1	TQ2	B1			13A		
01607		J2133	26		J2132	25			168	9		HAGA46V1	01	HAGA46V1	00	1	RR1	A6					
01608		J2132	25		J2131	18			168	9		HAGA46V1	02				RR1	A6	C2		T06		
01609		J2131	18						168	9		HAGA46V1	03	HAG30A	01	1	TQ2	B2			10A		
01610		J2133	29		J2132	29			168	9		HAGA47V1	01	HAGA47V1	00	1	RR1	A7					
01611		J2132	29		J2131	17			168	9		HAGA47V1	02				RR1	A7	C3		T07		
01612		J2131	17						168	9		HAGA47V1	03	HAG31A	01	1	TQ2	B3			08B		
01613		J2133	34		J2132	30			168	9		HAGA48V1	01	HAGA48V1	00	1	RR1	A8					
01614		J2132	30		J2131	23			168	9		HAGA48V1	02				RR1	A8	C4		T08		
01615		J2131	23						168	9		HAGA48V1	03	HAG32A	01	1	TQ2	B4			11B		
01616		J2132	38		J2133	38			168	9		HAGA51V1	01				RR1	C5					
01617		J2133	38		J2134	24			168	9		HAGA51V1	02	HAGA51V1	00	1	RR1	C5	B1		T09		
01618		J2134	24						168	9		HAGA51V1	03	HAG33A	01	1	TQ2	B1			13A		
01619		J2132	36		J2133	40			168	9		HAGA52V1	01				RR1	C6					
01620		J2133	40		J2134	18			168	9		HAGA52V1	02	HAGA52V1	00	1	RR1	C6	B2		T10		
01621		J2134	18						168	9		HAGA52V1	03	HAG34A	01	1	TQ2	B2			10A		
01622		J2132	35		J2133	42			168	9		HAGA53V1	01				RR1	D1					
01623		J2133	42		J2134	17			168	9		HAGA53V1	02	HAGA53V1	00	1	RR1	D1	B3		T11		

\*\*\*\* SIGNAL (HAGA53V1) IS ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAGA53V1  
 DATE 09-01-82 PAGE 37

RECORD NUMBER	FROM			IN TO	TO			WIRE			SPEC INST MISC	SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	MULTI GROUP	CODE	COLOR											
01624		J2134	17						168	9		HAGA53V1	03	HAG35A	01	1	TQ2	B3		08B	
01625		J2132	37		J2133	46			168	9		HAGA54V1	01	HAGA54V1	00	1	RR1	D2		T12	
01626		J2133	46		J2134	23			168	9		HAGA54V1	02	HAGA54V1	00	1	R05	B4			
01627		J2134	23						168	9		HAGA54V1	03	HAG36A	01	1	TQ2	B4		11B	
01628		J2133	48		J2132	39			168	9		HAGA55V1	01	HAGA55V1	00	1	R05	B5		T13	
01629		J2132	39		J2131	40			168	9		HAGA55V1	02			1	RR1	D3			
01630		J2131	40						168	9		HAGA55V1	03	HAG37A	01	1	TQ2	C1		19A	
01631		J2133	50		J2132	40			168	9		HAGA56V1	01	HAGA56V1	00	1	R05	B6		T14	
01632		J2132	40		J2131	34			168	9		HAGA56V1	02			1	RR1	D4			
01633		J2131	34						168	9		HAGA56V1	03	HAG38A	01	1	TQ2	C2		16A	
01634		J2133	52		J2132	42			168	9		HAGA57V1	01	HAGA57V1	00	1	R05	B7		T15	
01635		J2132	42		J2131	29			168	9		HAGA57V1	02			1	RR1	D5			
01636		J2131	29						168	9		HAGA57V1	03	HAG39A	01	1	TQ2	C3		14B	
01637		J2133	54		J2132	46			168	9		HAGA58V1	01	HAGA58V1	00	1	R05	B8		T16	
01638		J2132	46		J2131	35			168	9		HAGA58V1	02			1	RR1	D6			
01639		J2131	35						168	9		HAGA58V1	03	HAG40A	01	1	TQ2	C4		17B	
01640		J2133	62		J2131	68			168	9		HAGA61V1	01	HAGA61V1	00	1	R05	C1		T17	
01641		J2131	68		J2129	41			168	9		HAGA61V1	02	HAG41A	01	1	TQ2	E1		32A	
01642		J2129	41						168	9		HAGA61V1	03				RR1	E1			
01643		J2133	64		J2131	62			168	9		HAGA62V1	01	HAGA62V1	00	1	R05	C2		T18	
01644		J2131	62		J2129	45			168	9		HAGA62V1	02	HAG42A	01	1	TQ2	E2		29A	
01645		J2129	45						168	9		HAGA62V1	03				RR1	E2			
01646		J2129	47		J2131	53			168	9		HAGA63V1	01				RR1	E3			
01647		J2131	53		J2133	66			168	9		HAGA63V1	02	HAG43A	01	1	TQ2	E3		28B	
01648		J2133	66						168	9		HAGA63V1	03	HAGA63V1	00	1	R05	C3		T19	
01649		J2129	48		J2131	59			168	9		HAGA64V1	01				RR1	E4			
01650		J2131	59		J2133	68			168	9		HAGA64V1	02	HAG44A	01	1	TQ2	E4		31B	
01651		J2133	68						168	9		HAGA64V1	03	HAGA64V1	00	1	R05	C4		T21	
01652		J2133	70		J2131	77			168	9		HAGA65V1	01	HAGA65V1	00	1	R05	C5		T20	
01653		J2131	77		J2129	52			168	9		HAGA65V1	02	HAG45A	01	1	TQ2	F1		38B	
01654		J2129	52						168	9		HAGA65V1	03				RR1	E5			
01655		J2133	72		J2131	71			168	9		HAGA66V1	01	HAGA66V1	00	1	R05	C6		T22	
01656		J2131	71		J2129	54			168	9		HAGA66V1	02	HAG46A	01	1	TQ2	F2		36A	
01657		J2129	54						168	9		HAGA66V1	03				RR1	E6			
01658		J2133	74		J2131	65			168	9		HAGA67V1	01	HAGA67V1	00	1	R05	C7		T23	
01659		J2131	65		J2129	51			168	9		HAGA67V1	02	HAG47A	01	1	TQ2	F3		34B	
01660		J2129	51						168	9		HAGA67V1	03				RR1	F1			
											****	SIGNAL	(HAGA68V1)	IS ON THE NEXT PAGE				****			



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAGA68V1  
 DATE 09-01-82 PAGE 38

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	SH TO	MULTI GROUP	CODE	COLOR												IDENT
01661		J2133	76		J2131	76					168	9		HAGA68V1	01	HAGA68V1	00	1	R05	C8		T24		
01662		J2131	76		J2129	53					168	9		HAGA68V1	02	HAG48A	01	1	TQ2	F4		37A		
01663		J2129	53								168	9		HAGA68V1	03				RR1	F2				
01664		J2138	10		J2137	15					168	9		HAGA71V1	01	HAG49A	01	2	TQ2	A1		07A		
01665		J2137	15		J2132	41					168	9		HAGA71V1	02	HAGA71V1	00	1	R05	A1		T01		
01666		J2132	41								168	9		HAGA71V1	03				RR1	E1				
01667		J2138	05		J2137	18					168	9		HAGA72V1	01	HAG50A	01	2	TQ2	A2		03R		
01668		J2137	18		J2132	45					168	9		HAGA72V1	02	HAGA72V1	00	1	R05	A2		T02		
01669		J2132	45								168	9		HAGA72V1	03				RR1	E2				
01670		J2138	07		J2137	20					168	9		HAGA73V1	01	HAG51A	01	2	TQ2	A3		03A		
01671		J2137	20		J2132	47					168	9		HAGA73V1	02	HAGA73V1	00	1	R05	A3		T03		
01672		J2132	47								168	9		HAGA73V1	03				RR1	E3				
01673		J2138	13		J2137	22					168	9		HAGA74V1	01	HAG52A	01	2	TQ2	A4		06B		
01674		J2137	22		J2132	48					168	9		HAGA74V1	02	HAGA74V1	00	1	R05	A4		T04		
01675		J2132	48								168	9		HAGA74V1	03				RR1	E4				
01676		J2138	24		J2137	24					168	9		HAGA75V1	01	HAG53A	01	1	TQ2	B1		13A		
01677		J2137	24		J2132	52					168	9		HAGA75V1	02	HAGA75V1	00	1	R05	A5		T05		
01678		J2132	52								168	9		HAGA75V1	03				RR1	E5				
01679		J2138	18		J2137	26					168	9		HAGA76V1	01	HAG54A	01	1	TQ2	B2		10A		
01680		J2137	26		J2132	54					168	9		HAGA76V1	02	HAGA76V1	00	1	R05	A6		T06		
01681		J2132	54								168	9		HAGA76V1	03				RR1	E6				
01682		J2138	17		J2137	29					168	9		HAGA77V1	01	HAG55A	01	1	TQ2	B3		08B		
01683		J2137	29		J2132	51					168	9		HAGA77V1	02	HAGA77V1	00	1	R05	A7		T07		
01684		J2132	51								168	9		HAGA77V1	03				RR1	F1				
01685		J2138	23		J2137	34					168	9		HAGA78V1	01	HAG56A	01	1	TQ2	B4		11B		
01686		J2137	34		J2132	53					168	9		HAGA78V1	02	HAGA78V1	00	1	R05	A8		T08		
01687		J2132	53								168	9		HAGA78V1	03				RR1	F2				
01688		J2138	40		J2137	38					168	9		HAGA81V1	01	HAG57A	01	1	TQ2	C1		19A		
01689		J2137	38		J2132	55					168	9		HAGA81V1	02	HAGA81V1	00	1	R05	B1		T09		
01690		J2132	55								168	9		HAGA81V1	03				RR1	F3				
01691		J2138	34		J2137	40					168	9		HAGA82V1	01	HAG58A	01	1	TQ2	C2		16A		
01692		J2137	40		J2132	56					168	9		HAGA82V1	02	HAGA82V1	00	1	R05	B2		T10		
01693		J2132	56								168	9		HAGA82V1	03				RR1	F4				
01694		J2138	29		J2137	42					168	9		HAGA83V1	01	HAG59A	01	1	TQ2	C3		14B		
01695		J2137	42		J2132	62					168	9		HAGA83V1	02	HAGA83V1	00	1	R05	B3		T11		
01696		J2132	62								168	9		HAGA83V1	03				RR1	F5				
01697		J2138	35		J2137	46					168	9		HAGA84V1	01	HAG60A	01	1	TQ2	C4		17B		
01698		J2137	46		J2132	64					168	9		HAGA84V1	02	HAGA84V1	00	1	R05	B4		T12		
											***		SIGNAL (HAGA84V1)											IS ON THE NEXT PAGE ***

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAGA84V1  
 DATE 09-01-82 PAGE 39

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	OR	PREFIX	CONNECTOR	PIN	OR	MULTI GROUP	CODE	COLOR	IDENT											
01699		J2132	64							168	9		HAGA84V1	03				RR1	F6				
01700		J2132	61		J2134	76				168	9		HAGA85V1	01				RR1	G1				B01
01482		J2134	76		J2137	48				168	9		HAGA85V1	02	HAG61A	01	1	TQ2	F4			37A	B01
01702		J2137	48							168	9		HAGA85V1	03	HAGA85V1	00	1	RO5	B5			T13	
01703		J2138	48		J2137	50				168	9		HAGA86V1	01	HAG62A	01	1	TQ2	O2			22A	
01704		J2137	50		J2132	63				168	9		HAGA86V1	02	HAGA86V1	00	1	RO5	B6			T14	
01705		J2132	63							168	9		HAGA86V1	03				RR1	G2				
01706		J2138	41		J2137	52				168	9		HAGA87V1	01	HAG63A	01	1	TQ2	O3			22B	
01707		J2137	52		J2132	65				168	9		HAGA87V1	02	HAGA87V1	00	1	RO5	B7			T15	
01708		J2132	65							168	9		HAGA87V1	03				RR1	G3				
01709		J2138	47		J2137	54				168	9		HAGA88V1	01	HAG64A	01	1	TQ2	O4			25B	
01710		J2137	54		J2132	66				168	9		HAGA88V1	02	HAGA88V1	00	1	RO5	B8			T16	
01711		J2132	66							168	9		HAGA88V1	03				RR1	G4				
01712		J2132	72		J2137	62				168	9		HAGA91V1	01				RR1	G5				
01713		J2137	62		J2134	40				168	9		HAGA91V1	02	HAGA91V1	00	1	RO5	C1			T17	
01714		J2134	40							168	9		HAGA91V1	03	HAG65A	01	1	TQ2	C1			19A	
01715		J2132	74		J2137	64				168	9		HAGA92V1	01				RR1	G6				
01716		J2137	64		J2134	34				168	9		HAGA92V1	02	HAGA92V1	00	1	RO5	C2			T18	
01717		J2134	34							168	9		HAGA92V1	03	HAG66A	01	1	TQ2	C2			16A	
01718		J2137	66		J2132	71				168	9		HAGA93V1	01	HAGA93V1	00	1	RO5	C3			T19	
01719		J2132	71		J2134	29				168	9		HAGA93V1	02				RR1	H1				
01720		J2134	29							168	9		HAGA93V1	03	HAG67A	01	1	TQ2	C3			14B	
01721		J2137	68		J2132	73				168	9		HAGA94V1	01	HAGA94V1	00	1	RO5	C4			T21	
01722		J2132	73		J2134	35				168	9		HAGA94V1	02				RR1	H2				
01723		J2134	35							168	9		HAGA94V1	03	HAG68A	01	1	TQ2	C4			17B	
01724		J2137	70		J2134	54				168	9		HAGA95V1	01	HAGA95V1	00	1	RO5	C5			T20	
01725		J2134	54		J2132	75				168	9		HAGA95V1	02	HAG69A	01	1	TQ2	D1			25A	
01726		J2132	75							168	9		HAGA95V1	03				RR1	H3				
01727		J2137	72		J2132	76				168	9		HAGA96V1	01	HAGA96V1	00	1	RO5	C6			T22	
01728		J2132	76		J2134	48				168	9		HAGA96V1	02				RR1	H4				
01729		J2134	48							168	9		HAGA96V1	03	HAG70A	01	1	TQ2	O2			22A	
01730		J2137	74		J2132	77				168	9		HAGA97V1	01	HAGA97V1	00	1	RO5	C7			T23	
01731		J2132	77		J2134	41				168	9		HAGA97V1	02				RR1	H5				
01732		J2134	41							168	9		HAGA97V1	03	HAG71A	01	1	TQ2	O3			22B	
01733		J2137	76		J2132	78				168	9		HAGA98V1	01	HAGA98V1	00	1	RO5	C8			T24	
01734		J2132	78		J2134	47				168	9		HAGA98V1	02				RR1	H6				
01735		J2134	47							168	9		HAGA98V1	03	HAG72A	01	1	TQ2	O4			25B	
										****	SIGNAL	HAGM3A	IS ON THE NEXT PAGE				****						

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGM3A  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 40

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO				
	PREFIX	CONNECTOR	PIN	PIN	CONNECTOR	PIN	SIZE	MULTI GROUP	CODE	COLOR											IDENT			
03618		J2109	39		J2116	75			168	9		HAGM3A	01	HAGM3A	00	1	TQ2	C4		19B		D01		
03280		J2116	75						168	9		HAGM3A	02	HAGM30V	01	1	THI	F6			39A		D01	
03625		J2116	77		J2140	78			168	9		HAGM30V	01	HAGM30V	00	1	THI	F6			38A		D01	
03594	SAE	J2140	78						168	9		HAGM30V	02	HAL66A	01	3	TT3	F3			38A		D01	
01736		J2141	80		J2139	57			168	9		HAGN50V	01	HAGN50V	00	1	THI	F1			38B			
01737		J2139	57		J2139	03			168	9		HAGN50V	02	HAACN1U	01	3	DBC	D1			29B			
01738		J2139	03						168	9		HAGN50V	03	HAMCC2T	01	1	DBC	A3			02B			
03442		J2147	05		J2141	71			168	9		HAGN60V	00C	HATO10E	01	2	TS4	A1			04B		C01	
01739		J2141	71		J2139	59			168	9		HAGN60V	01	HAGN60V	00	1	THI	F2			36B			
01740		J2139	59						168	9		HAGN60V	02	HAACN1U	01	4	DBC	D1			30B			
01741		J2126	06		J2124	35			168	9		HAG01A	01	HAG01A	00	1	TQ2	A1			05A			
01742		J2124	35						168	9		HAG01A	02	HAG010V	01	1	THI	C2			18A			
01743		J2124	37		J2106	10			168	9		HAG010V	01	HAG010V	00	1	THI	C2			17A			
01744		J2106	10		J2104	01			168	9		HAG010V	02	HADAA0	01	2	TQ2	A1			07A			
01745		J2104	01						168	9		HAG010V	03	HADM2Z	01	1	EXT							
01746		J2126	01		J2124	36			168	9		HAG02A	01	HAG02A	00	1	TQ2	A2			02B			
01747		J2124	36						168	9		HAG02A	02	HAG020V	01	1	THI	C3			16A			
01748		J2124	34		J2106	05			168	9		HAG020V	01	HAG020V	00	1	THI	C3			15A			
01749		J2106	05		J2104	03			168	9		HAG020V	02	HADAB0	01	2	TQ2	A2			03B			
01750		J2104	03						168	9		HAG020V	03	HADM2Z	01	2	EXT							
01751		J2126	09		J2124	29			168	9		HAG03A	01	HAG03A	00	1	TQ2	A3			04B			
01752		J2124	29						168	9		HAG03A	02	HAG030V	01	1	THI	C4			15B			
01753		J2124	30		J2106	07			168	9		HAG030V	01	HAG030V	00	1	THI	C4			14B			
01754		J2106	07		J2104	04			168	9		HAG030V	02	HADAC0	01	2	TQ2	A3			03A			
01755		J2104	04						168	9		HAG030V	03	HADM2Z	01	3	EXT							
01756		J2126	15		J2124	33			168	9		HAG04A	01	HAG04A	00	1	TQ2	A4			07B			
01757		J2124	33						168	9		HAG04A	02	HAG040V	01	1	THI	C5			17B			
03576	SAE	J2140	60		J2124	31			168	9		HAG040V	00	HAL04A	01	2	TT3	E2			28A		D01	
01758		J2124	31		J2109	05			168	9		HAG040V	01	HAG040V	00	1	THI	C5			16B			
01759		J2109	05		J2104	05			168	9		HAG040V	02	HADAD0	01	2	TQ2	A2			03B			
01760		J2104	05						168	9		HAG040V	03	HADM2Z	01	4	EXT							
01761		J2126	22		J2124	39			168	9		HAG05A	01	HAG05A	00	1	TQ2	B1			12A			
01762		J2124	39						168	9		HAG05A	02	HAG050V	01	1	THI	C6			19B			
01763		J2124	42		J2106	13			168	9		HAG050V	01	HAG050V	00	1	THI	C6			18B			
01764		J2106	13		J2104	06			168	9		HAG050V	02	HADAE0	01	2	TQ2	A4			06B			
01765		J2104	06						168	9		HAG050V	03	HADM2Z	01	5	EXT							
											****	SIGNAL	{HAG06A		IS ON THE	NEXT PAGE	****							

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG06A  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 41

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	MULTI GROUP	CODE	COLOR	IDENT											
01766		J2126	14		J2124	52		168	9		HAG06A	01	HAG06A	00	1	TQ2	B2		09A		
01767		J2124	52					168	9		HAG06A	02	HAG060V	01	1	THI	D1		26A		
01768		J2124	54		J2109	13		168	9		HAG060V	01	HAG060V	00	1	THI	D1		25A		
01769		J2109	13		J2104	07		168	9		HAG060V	02	HADAFO	01	2	TQ2	A4		06B		
01770		J2104	07					168	9		HAG060V	03	HADMZ2	01	6	EXT					
01771		J2126	21		J2124	47		168	9		HAG07A	01	HAG07A	00	1	TQ2	B3		10B		
01772		J2124	47					168	9		HAG07A	02	HAG070V	01	1	THI	D2		24A		
01773		J2124	49		J2109	26		168	9		HAG070V	01	HAG070V	00	1	THI	D2		23A		
01774		J2109	26		J2104	08		168	9		HAG070V	02	HADAGO	01	2	TQ2	B1		14A		
01775		J2104	08					168	9		HAG070V	03	HADMZ2	01	7	EXT					
01776		J2126	27		J2124	50		168	9		HAG08A	01	HAG08A	00	1	TQ2	B4		13B		
01777		J2124	50					168	9		HAG08A	02	HAG080V	01	1	THI	D3		22A		
03526	SAE	J2140	10		J2124	48		168	9		HAG080V	00	HAL08A	01	3	TT3	A1		07A	801	
01778		J2124	48		J2109	20		168	9		HAG080V	01	HAG080V	00	1	THI	D3		21A		
01779		J2109	20		J2104	09		168	9		HAG080V	02	HADAHO	01	2	TQ2	B2		11A		
01780		J2104	09					168	9		HAG080V	03	HADMZ2	01	8	EXT					
01781		J2126	38		J2124	41		168	9		HAG09A	01	HAG09A	00	1	TQ2	C1		18A		
01782		J2124	41					168	9		HAG09A	02	HAG090V	01	1	THI	D4		23B		
01783		J2124	46		J2109	19		168	9		HAG090V	01	HAG090V	00	1	THI	D4		22B		
01784		J2109	19		J2104	10		168	9		HAG090V	02	HADATO	01	2	TQ2	B3		09B		
01785		J2104	10					168	9		HAG090V	03	HADMZ2	02	1	EXT					
01786		J2126	30		J2124	45		168	9		HAG10A	01	HAG10A	00	1	TQ2	C2		15A		
01787		J2124	45					168	9		HAG10A	02	HAG100V	01	1	THI	D5		25B		
01788		J2124	43		J2106	56		168	9		HAG100V	01	HAG100V	00	1	THI	D5		24B		
01789		J2106	56		J2104	11		168	9		HAG100V	02	HADAJ0	01	2	TQ2	D1		26A		
01790		J2104	11					168	9		HAG100V	03	HADMZ2	02	2	EXT					
01791		J2126	33		J2124	51		168	9		HAG11A	01	HAG11A	00	1	TQ2	C3		16B		
01792		J2124	51					168	9		HAG11A	02	HAG110V	01	1	THI	D6		27B		
01793		J2124	53		J2106	50		168	9		HAG110V	01	HAG110V	00	1	THI	D6		26B		
01794		J2106	50		J2104	13		168	9		HAG110V	02	HADAKO	01	2	TQ2	D2		23A		
01795		J2104	13					168	9		HAG110V	03	HADMZ2	02	3	EXT					
01796		J2126	39		J2124	64		168	9		HAG12A	01	HAG12A	00	1	TQ2	C4		19B		
01797		J2124	64					168	9		HAG12A	02	HAG120V	01	1	THI	E1		33A		
01798		J2124	66		J2106	43		168	9		HAG120V	01	HAG120V	00	1	THI	E1		32A		
01799		J2106	43		J2104	14		168	9		HAG120V	02	HADALO	01	2	TQ2	D3		23B		
01800		J2104	14					168	9		HAG120V	03	HADMZ2	02	4	EXT					
											****	SIGNAL	{HAG13A}	IS ON THE	NEXT PAGE	****					

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG13A  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 42

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SIZE	MULTI GROUP	COLOR	IDENT											
01801		J2126	52		J2124	61			168	9		HAG13A	01	HAG13A	00	1	TQ2	D1		24A	
01802		J2124	61						168	9		HAG13A	02	HAG130V	01	1	THI	E2		31A	
01803		J2124	63		J2106	70			168	9		HAG130V	01	HAG130V	00	1	THI	E2		30A	
01804		J2106	70		J2104	15			168	9		HAG130V	02	HADANO	01	2	TQ2	E1		33A	
01805		J2104	15						168	9		HAG130V	03	HADMZ2	02	5	EXT				
01806		J2126	46		J2124	62			168	9		HAG14A	01	HAG14A	00	1	TQ2	D2		21A	
01807		J2124	62						168	9		HAG14A	02	HAG140V	01	1	THI	E3		29A	
03521	SAE	J2140	05		J2124	60			168	9		HAG140V	00	HAL14A	01	3	TT3	A2		03B	801
01808		J2124	60		J2106	64			168	9		HAG140V	01	HAG140V	00	1	THI	E3		28A	
01809		J2106	64		J2104	17			168	9		HAG140V	02	HADANO	01	2	TQ2	E2		30A	
01810		J2104	17						168	9		HAG140V	03	HADMZ2	02	6	EXT				
01811		J2126	45		J2124	55			168	9		HAG15A	01	HAG15A	00	1	TQ2	D3		24B	
01812		J2124	55						168	9		HAG15A	02	HAG150V	01	1	THI	E4		29B	
03575	SAE	J2140	59		J2124	56			168	9		HAG150V	00	HAL15A	01	2	TT3	E3		31B	001
01813		J2124	56		J2109	56			168	9		HAG150V	01	HAG150V	00	1	THI	E4		28B	
01814		J2109	56		J2104	18			168	9		HAG150V	02	HADAP0	01	2	TQ2	D1		26A	
01815		J2104	18						168	9		HAG150V	03	HADMZ2	02	7	EXT				
01816		J2126	51		J2124	59			168	9		HAG16A	01	HAG16A	00	1	TQ2	D4		27B	
01817		J2124	59						168	9		HAG16A	02	HAG160V	01	1	THI	E5		31B	
01818		J2124	57		J2109	50			168	9		HAG160V	01	HAG160V	00	1	THI	E5		30B	
01819		J2109	50		J2104	19			168	9		HAG160V	02	HADAQ0	01	2	TQ2	D2		23A	
01820		J2104	19						168	9		HAG160V	03	HADMZ2	02	8	EXT				
01821		J2126	66		J2124	65			168	9		HAG17A	01	HAG17A	00	1	TQ2	E1		31A	
01822		J2124	65						168	9		HAG17A	02	HAG170V	01	1	THI	E6		33B	
03525	SAE	J2140	09		J2124	68			168	9		HAG170V	00	HAL17A	01	1	TT3	A3		04B	801
01823		J2124	68		J2109	70			168	9		HAG170V	01	HAG170V	00	1	THI	E6		32B	
01824		J2109	70		J2104	20			168	9		HAG170V	02	HADARO	01	2	TQ2	E1		33A	
01825		J2104	20						168	9		HAG170V	03	HADMZ2	03	1	EXT				
01826		J2126	60		J2124	79			168	9		HAG18A	01	HAG18A	00	1	TQ2	E2		28A	
01827		J2124	79						168	9		HAG18A	02	HAG180V	01	1	THI	F1		39B	
01828		J2124	80		J2109	64			168	9		HAG180V	01	HAG180V	00	1	THI	F1		38B	
01829		J2109	64		J2104	21			168	9		HAG180V	02	HADAS0	01	2	TQ2	E2		30A	
01830		J2104	21						168	9		HAG180V	03	HADMZ2	03	2	EXT				
01831		J2126	57		J2124	73			168	9		HAG19A	01	HAG19A	00	1	TQ2	E3		30B	
01832		J2124	73						168	9		HAG19A	02	HAG190V	01	1	THI	F2		37B	
01833		J2124	71		J2109	55			168	9		HAG190V	01	HAG190V	00	1	THI	F2		36B	
01834		J2109	55		J2104	22			168	9		HAG190V	02	HADAT0	01	2	TQ2	E3		29B	
										****	SIGNAL	(HAG190V	IS ON THE	NEXT PAGE	****						

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG190V  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 43

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	OR IN	PREFIX	CONNECTOR	PIN	OR IN	MULTI GROUP	CODE	COLOR	IDENT											
01835		J2104	22							168	9		HAG190V	03	HADM2Z	03	3	EXT					
01836		J2126	63		J2124	69				168	9		HAG20A	01	HAG20A	00	1	TQ2	E4		33B		
01837		J2124	69							168	9		HAG20A	02	HAG200V	01	1	THI	F3		35B		
01838		J2124	70		J2109	61				168	9		HAG200V	01	HAG200V	00	1	THI	F3		34B		
01839		J2109	61		J2104	23				168	9		HAG200V	02	HADAU0	01	2	TQ2	E4		32B		
01840		J2104	23							168	9		HAG200V	03	HADM2Z	03	4	EXT					
01841		J2126	75		J2124	74				168	9		HAG21A	01	HAG21A	00	1	TQ2	F1		37B		
01842		J2124	74							168	9		HAG21A	02	HAG210V	01	1	THI	F4		35A		
01843		J2124	72		J2106	79				168	9		HAG210V	01	HAG210V	00	1	THI	F4		34A		
01844		J2106	79		J2104	24				168	9		HAG210V	02	HADBA0	01	2	TQ2	F1		39B		
01845		J2104	24							168	9		HAG210V	03	HADM2Z	03	5	EXT					
01846		J2126	72		J2124	76				168	9		HAG22A	01	HAG22A	00	1	TQ2	F2		34A		
01847		J2124	76							168	9		HAG22A	02	HAG220V	01	1	THI	F5		37A		
01848		J2124	78		J2106	73				168	9		HAG220V	01	HAG220V	00	1	THI	F5		36A		
01849		J2106	73		J2104	25				168	9		HAG220V	02	HA08B0	01	2	TQ2	F2		36B		
01850		J2104	25							168	9		HAG220V	03	HADM2Z	03	6	EXT					
01851		J2126	69		J2124	75				168	9		HAG23A	01	HAG23A	00	1	TQ2	F3		35A		
01852		J2124	75							168	9		HAG23A	02	HAG230V	01	1	THI	F6		39A		
01853		J2124	77		J2106	74				168	9		HAG230V	01	HAG230V	00	1	THI	F6		38A		
01854		J2106	74		J2104	26				168	9		HAG230V	02	HADBC0	01	2	TQ2	F3		35B		
01855		J2104	26							168	9		HAG230V	03	HADM2Z	03	7	EXT					
01856		J2128	75		J2126	80				168	9		HAG24A	01	HAG240V	01	1	THI	F6		39A		
01857		J2126	80							168	9		HAG24A	02	HAG24A	00	1	TQ2	F4		39A		
01858		J2128	77		J2109	79				168	9		HAG240V	01	HAG240V	00	1	THI	F6		38A		
01859		J2109	79		J2104	27				168	9		HAG240V	02	HADBD0	01	2	TQ2	F1		39B		
01860		J2104	27							168	9		HAG240V	03	HADM2Z	03	8	EXT					
01861		J2131	06		J2128	22				168	9		HAG25A	01	HAG25A	00	1	TQ2	A1		05A		
01862		J2128	22							168	9		HAG25A	02	HAG250V	01	1	THI	B1		14A		
01863		J2128	24		J2111	10				168	9		HAG250V	01	HAG250V	00	1	THI	B1		13A		
01864		J2111	10		J2104	29				168	9		HAG250V	02	HADBE0	01	2	TQ2	A1		07A		
01865		J2104	29							168	9		HAG250V	03	HADM2Z	04	1	EXT					
01866		J2131	01		J2128	23				168	9		HAG26A	01	HAG26A	00	1	TQ2	A2		02B		
01867		J2128	23							168	9		HAG26A	02	HAG260V	01	1	THI	B2		12A		
03593	SAE	J2140	77		J2128	25				168	9		HAG260V	00	HAL26A	01	2	TT3	F1		38B	001	
01868		J2128	25		J2111	05				168	9		HAG260V	01	HAG260V	00	1	THI	B2		11A		
01869		J2111	05		J2104	30				168	9		HAG260V	02	HADBF0	01	2	TQ2	A2		03B		

\*\*\* SIGNAL (HAG260V) IS ON THE NEXT PAGE \*\*\*

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3M2S2

REV E INDEX HAG260V  
 DATE 09-01-82 PAGE 44

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	SH FT	PREFIX	CONNECTOR	PIN	SH FT	MULTI GROUP	CODE	COLOR	IDENT												
01870		J2104	30							168	9		HAG260V	03	HADM2Z	04	2	EXT						
01871		J2131	09		J2128	20				168	9		HAG27A	01	HAG27A	00	1	TQ2	A3		04B			
01872		J2128	20							168	9		HAG27A	02	HAG270V	01	1	THI	B3		10A			
01873		J2128	18		J2111	07				168	9		HAG270V	01	HAG270V	00	1	THI	B3		09A			
01874		J2111	07		J2104	31				168	9		HAG270V	02	HADBGO	01	2	TQ2	A3		03A			
01875		J2104	31							168	9		HAG270V	03	HADM2Z	04	3	EXT						
01876		J2131	15		J2128	17				168	9		HAG28A	01	HAG28A	00	1	TQ2	A4		07B			
01877		J2128	17							168	9		HAG28A	02	HAG280V	01	1	THI	B4		09B			
01878		J2128	14		J2111	13				168	9		HAG280V	01	HAG280V	00	1	THI	B4		08B			
01879		J2111	13		J2104	33				168	9		HAG280V	02	HADBHO	01	2	TQ2	A4		06B			
01880		J2104	33							168	9		HAG280V	03	HADM2Z	04	4	EXT						
01881		J2131	22		J2128	21				168	9		HAG29A	01	HAG29A	00	1	TQ2	B1		12A			
01882		J2128	21							168	9		HAG29A	02	HAG290V	01	1	THI	B5		11B			
03542	SAE	J2140	26		J2128	19				168	9		HAG290V	00	HAL29A	01	3	TT3	B1		14A		801	
01883		J2128	19		J2111	26				168	9		HAG290V	01	HAG290V	00	1	THI	B5		10B			
01884		J2111	26		J2104	34				168	9		HAG290V	02	HADBIO	01	2	TQ2	B1		14A			
01885		J2104	34							168	9		HAG290V	03	HADM2Z	04	5	EXT						
01886		J2131	14		J2128	27				168	9		HAG30A	01	HAG30A	00	1	TQ2	B2		09A			
01887		J2128	27							168	9		HAG30A	02	HAG300V	01	1	THI	B6		13B			
01888		J2128	26		J2111	20				168	9		HAG300V	01	HAG300V	00	1	THI	B6		12B			
01889		J2111	20		J2104	35				168	9		HAG300V	02	HADBJO	01	2	TQ2	B2		11A			
01890		J2104	35							168	9		HAG300V	03	HADM2Z	04	6	EXT						
01891		J2131	21		J2128	38				168	9		HAG31A	01	HAG31A	00	1	TQ2	B3		10B			
01892		J2128	38							168	9		HAG31A	02	HAG310V	01	1	THI	C1		20A			
01893		J2128	40		J2111	19				168	9		HAG310V	01	HAG310V	00	1	THI	C1		19A			
01894		J2111	19		J2104	36				168	9		HAG310V	02	HADBKO	01	2	TQ2	B3		09B			
01895		J2104	36							168	9		HAG310V	03	HADM2Z	04	7	EXT						
01896		J2131	27		J2128	35				168	9		HAG32A	01	HAG32A	00	1	TQ2	B4		13B			
01897		J2128	35							168	9		HAG32A	02	HAG320V	01	1	THI	C2		18A			
01898		J2128	37		J2111	25				168	9		HAG320V	01	HAG320V	00	1	THI	C2		17A			
01899		J2111	25		J2104	37				168	9		HAG320V	02	HADBLO	01	2	TQ2	B4		12B			
01900		J2104	37							168	9		HAG320V	03	HADM2Z	04	8	EXT						
01901		J2134	22		J2128	36				168	9		HAG33A	01	HAG33A	00	1	TQ2	B1		12A			
01902		J2128	36							168	9		HAG33A	02	HAG330V	01	1	THI	C3		16A			
01903		J2128	34		J2111	42				168	9		HAG330V	01	HAG330V	00	1	THI	C3		15A			
01904		J2111	42		J2104	38				168	9		HAG330V	02	HADBMO	01	2	TQ2	C1		20A			
												****	SIGNAL	(HAG330V)	IS ON THE NEXT PAGE				****					

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3M2S2

REV E INDEX HAG330V  
 DATE 09-01-82 PAGE 45

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	OR	PREFIX	CONNECTOR	PIN	OR	MULTI GROUP	CODE	COLOR	IDENT											
01905		J2104	38							168	9		HAG330V	03	HADM2Z	05	1	EXT					
01906		J2134	14		J2128	29				168	9		HAG34A	01	HAG34A	00	1	TQ2	B2		09A		
01907		J2128	29							168	9		HAG34A	02	HAG340V	01	1	THI	C4		15B		
03534	SAE	J2140	18		J2128	30				168	9		HAG340V	00	HAL34A	01	3	TT3	B2		10A	801	
01908		J2128	30		J2111	36				168	9		HAG340V	01	HAG340V	00	1	THI	C4		14B		
01909		J2111	36		J2104	39				168	9		HAG340V	02	HADBNO	01	2	TQ2	C2		17A		
01910		J2104	39							168	9		HAG340V	03	HADM2Z	05	2	EXT					
01911		J2134	21		J2128	33				168	9		HAG35A	01	HAG35A	00	1	TQ2	B3		10B		
01912		J2128	33							168	9		HAG35A	02	HAG350V	01	1	THI	C5		17B		
01913		J2128	31		J2111	31				168	9		HAG350V	01	HAG350V	00	1	THI	C5		16B		
01914		J2111	31		J2104	40				168	9		HAG350V	02	HADBPO	01	2	TQ2	C3		15B		
01915		J2104	40							168	9		HAG350V	03	HADM2Z	05	3	EXT					
01916		J2134	27		J2128	39				168	9		HAG36A	01	HAG36A	00	1	TQ2	B4		13B		
01917		J2128	39							168	9		HAG36A	02	HAG360V	01	1	THI	C6		19B		
01918		J2128	42		J2111	37				168	9		HAG360V	01	HAG360V	00	1	THI	C6		18B		
01919		J2111	37		J2104	41				168	9		HAG360V	02	HADBQO	01	2	TQ2	C4		18B		
01920		J2104	41							168	9		HAG360V	03	HADM2Z	05	4	EXT					
01921		J2131	38		J2128	52				168	9		HAG37A	01	HAG37A	00	1	TQ2	C1		18A		
01922		J2128	52							168	9		HAG37A	02	HAG370V	01	1	THI	D1		26A		
01923		J2128	54		J2111	56				168	9		HAG370V	01	HAG370V	00	1	THI	D1		25A		
01924		J2111	56		J2104	42				168	9		HAG370V	02	HADBRO	01	2	TQ2	D1		26A		
01925		J2104	42							168	9		HAG370V	03	HADM2Z	05	5	EXT					
01926		J2131	30		J2128	47				168	9		HAG38A	01	HAG38A	00	1	TQ2	C2		15A		
01927		J2128	47							168	9		HAG38A	02	HAG380V	01	1	THI	D2		24A		
01928		J2128	49		J2111	50				168	9		HAG380V	01	HAG380V	00	1	THI	D2		23A		
01929		J2111	50		J2104	43				168	9		HAG380V	02	HADBSS	01	2	TQ2	D2		23A		
01930		J2104	43							168	9		HAG380V	03	HADM2Z	05	6	EXT					
01931		J2131	33		J2128	50				168	9		HAG39A	01	HAG39A	00	1	TQ2	C3		16B		
01932		J2128	50							168	9		HAG39A	02	HAG390V	01	1	THI	D3		22A		
01933		J2128	48		J2111	43				168	9		HAG390V	01	HAG390V	00	1	THI	D3		21A		
01934		J2111	43		J2104	45				168	9		HAG390V	02	HADBTO	01	2	TQ2	D3		23B		
01935		J2104	45							168	9		HAG390V	03	HADM2Z	05	7	EXT					
01936		J2131	39		J2128	41				168	9		HAG40A	01	HAG40A	00	1	TQ2	C4		19B		
01937		J2128	41							168	9		HAG40A	02	HAG400V	01	1	THI	D4		23B		
01938		J2128	46		J2111	49				168	9		HAG400V	01	HAG400V	00	1	THI	D4		22B		
01939		J2111	49		J2104	46				168	9		HAG400V	02	HADBUE	01	2	TQ2	D4		26B		

\*\*\* SIGNAL (HAG400V) IS ON THE NEXT PAGE \*\*\*



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SH PG	MULTI GROUP	CODE	COLOR											
01940		J2104	46					168	9			HAG400V	03	HADM2Z	05	8	EXT				
01941		J2131	66		J2128	45		168	9			HAG41A	01	HAG41A	00	1	TQ2	E1		31A	
01942		J2128	45					168	9			HAG41A	02	HAG410V	01	1	THI	D5		25B	
03537	SAE	J2140	21		J2128	43		168	9			HAG410V	00	HAL41A	01	1	TT3	B3		10B	801
01943		J2128	43		J2111	70		168	9			HAG410V	01	HAG410V	00	1	THI	D5		24B	
01944		J2111	70		J2104	47		168	9			HAG410V	02	HADBVO	01	2	TQ2	E1		33A	
01945		J2104	47					168	9			HAG410V	03	HADM2Z	06	1	EXT				
01946		J2131	60		J2128	51		168	9			HAG42A	01	HAG42A	00	1	TQ2	E2		28A	
01947		J2128	51					168	9			HAG42A	02	HAG420V	01	1	THI	D6		27B	
01948		J2128	53		J2111	64		168	9			HAG420V	01	HAG420V	00	1	THI	D6		26B	
01949		J2111	64		J2104	48		168	9			HAG420V	02	HADBWO	01	2	TQ2	E2		30A	
01950		J2104	48					168	9			HAG420V	03	HADM2Z	06	2	EXT				
01951		J2131	57		J2128	64		168	9			HAG43A	01	HAG43A	00	1	TQ2	E3		30B	
01952		J2128	64					168	9			HAG43A	02	HAG430V	01	1	THI	E1		33A	
01953		J2128	66		J2111	55		168	9			HAG430V	01	HAG430V	00	1	THI	E1		32A	
01954		J2111	55		J2104	49		168	9			HAG430V	02	HADCA0	01	2	TQ2	E3		29B	
01955		J2104	49					168	9			HAG430V	03	HADM2Z	06	3	EXT				
01956		J2131	63		J2128	61		168	9			HAG44A	01	HAG44A	00	1	TQ2	E4		33B	
01957		J2128	61					168	9			HAG44A	02	HAG440V	01	1	THI	E2		31A	
01958		J2128	63		J2111	61		168	9			HAG440V	01	HAG440V	00	1	THI	E2		30A	
01959		J2111	61		J2104	50		168	9			HAG440V	02	HADC80	01	2	TQ2	E4		32B	
01960		J2104	50					168	9			HAG440V	03	HADM2Z	06	4	EXT				
01961		J2131	75		J2128	62		168	9			HAG45A	01	HAG45A	00	1	TQ2	F1		37B	
01962		J2128	62					168	9			HAG45A	02	HAG450V	01	1	THI	E3		29A	
01963		J2128	60		J2111	79		168	9			HAG450V	01	HAG450V	00	1	THI	E3		28A	
01964		J2111	79		J2104	51		168	9			HAG450V	02	HADCC0	01	2	TQ2	F1		39B	
01965		J2104	51					168	9			HAG450V	03	HADM2Z	06	5	EXT				
01966		J2131	72		J2128	55		168	9			HAG46A	01	HAG46A	00	1	TQ2	F2		34A	
01967		J2128	55					168	9			HAG46A	02	HAG460V	01	1	THI	E4		29B	
03558	SAE	J2140	42		J2128	56		168	9			HAG460V	00	HAL46A	01	3	TT3	C1		20A	801
01968		J2128	56		J2111	73		168	9			HAG460V	01	HAG460V	00	1	THI	E4		28B	
01969		J2111	73		J2104	52		168	9			HAG460V	02	HADC00	01	2	TQ2	F2		36B	
01970		J2104	52					168	9			HAG460V	03	HADM2Z	06	6	EXT				
01971		J2131	69		J2128	59		168	9			HAG47A	01	HAG47A	00	1	TQ2	F3		35A	
01972		J2128	59					168	9			HAG47A	02	HAG470V	01	1	THI	E5		31B	
01973		J2128	57		J2111	74		168	9			HAG470V	01	HAG470V	00	1	THI	E5		30B	
											****	SIGNAL	(HAG470V	IS ON THE	NEXT PAGE	****					

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAG470V  
 DATE 09-01-82 PAGE 47

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERMIN	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	OR	PREFIX	CONNECTOR	PIN	OR	MULTI GROUP	CODE	COLOR	IDENT												
01974		J2111	74		J2104	53				168	9		HAG470V	02	HADCE0	01	2	TQ2	F3		35B			
01975		J2104	53							168	9		HAG470V	03	HADMZ2	06	7	EXT						
01976		J2131	80		J2128	65				168	9		HAG48A	01	HAG48A	00	1	TQ2	F4		39A			
01977		J2128	65							168	9		HAG48A	02	HAG480V	01	1	THI	E6		33B			
03588	SAE	J2140	72		J2128	68				168	9		HAG480V	00	HAL48A	01	3	TT3	F2		34A		001	
01978		J2128	68		J2111	78				168	9		HAG480V	01	HAG480V	00	1	THI	E6		32B			
01979		J2111	78		J2104	54				168	9		HAG480V	02	HADCF0	01	2	TQ2	F4		38A			
01980		J2104	54							168	9		HAG480V	03	HADMZ2	06	8	EXT						
01981		J2138	06		J2128	79				168	9		HAG49A	01	HAG49A	00	1	TQ2	A1		05A			
01982		J2128	79							168	9		HAG49A	02	HAG490V	01	1	THI	F1		39B			
01983		J2128	80		J2115	10				168	9		HAG490V	01	HAG490V	00	1	THI	F1		38B			
01984		J2115	10		J2104	55				168	9		HAG490V	02	HADCG0	01	2	TQ2	A1		07A			
01985		J2104	55							168	9		HAG490V	03	HADMZ2	07	1	EXT						
01986		J2138	01		J2128	73				168	9		HAG50A	01	HAG50A	00	1	TQ2	A2		02B			
01987		J2128	73							168	9		HAG50A	02	HAG500V	01	1	THI	F2		37B			
03550	SAE	J2140	34		J2128	71				168	9		HAG500V	00	HAL50A	01	3	TT3	C2		16A		801	
01988		J2128	71		J2115	05				168	9		HAG500V	01	HAG500V	00	1	THI	F2		36B			
01989		J2115	05		J2104	56				168	9		HAG500V	02	HADCHO	01	2	TQ2	A2		03B			
01990		J2104	56							168	9		HAG500V	03	HADMZ2	07	2	EXT						
01991		J2138	09		J2128	69				168	9		HAG51A	01	HAG51A	00	1	TQ2	A3		04B			
01992		J2128	69							168	9		HAG51A	02	HAG510V	01	1	THI	F3		35B			
01993		J2128	70		J2115	07				168	9		HAG510V	01	HAG510V	00	1	THI	F3		34B			
01994		J2115	07		J2104	57				168	9		HAG510V	02	HADCI0	01	2	TQ2	A3		03A			
01995		J2104	57							168	9		HAG510V	03	HADMZ2	07	3	EXT						
01996		J2138	15		J2128	74				168	9		HAG52A	01	HAG52A	00	1	TQ2	A4		07B			
01997		J2128	74							168	9		HAG52A	02	HAG520V	01	1	THI	F4		35A			
01998		J2128	72		J2115	13				168	9		HAG520V	01	HAG520V	00	1	THI	F4		34A			
01999		J2115	13		J2104	59				168	9		HAG520V	02	HADCF0	01	2	TQ2	A4		06B			
02000		J2104	59							168	9		HAG520V	03	HADMZ2	07	4	EXT						
02001		J2138	22		J2128	76				168	9		HAG53A	01	HAG53A	00	1	TQ2	B1		12A			
02002		J2128	76							168	9		HAG53A	02	HAG530V	01	1	THI	F5		37A			
03549	SAE	J2140	33		J2128	78				168	9		HAG530V	00	HAL53A	01	1	TT3	C3		16B		801	
02003		J2128	78		J2115	26				168	9		HAG530V	01	HAG530V	00	1	THI	F5		36A			
02004		J2115	26		J2104	60				168	9		HAG530V	02	HADCK0	01	2	TQ2	B1		14A			
02005		J2104	60							168	9		HAG530V	03	HADMZ2	07	5	EXT						
02006		J2138	14		J2136	11				168	9		HAG54A	01	HAG54A	00	1	TQ2	B2		09A			
02007		J2136	11							168	9		HAG54A	02	HAG540V	01	1	THI	A1		07A			

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG54A  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 48

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SIZE	MULTI-GROUP	CODE	COLOR											
02008		J2136	13		J2115	20			168	9		HAG540V	01	HAG540V	00	1	THI	A1		06A	
02009		J2115	20		J2104	61			168	9		HAG540V	02	HADCLO	01	2	TQ2	B2		11A	
02010		J2104	61						168	9		HAG540V	03	HADMZ2	07	6	EXT				
02011		J2138	21		J2136	06			168	9		HAG55A	01	HAG55A	00	1	TQ2	B3		10B	
02012		J2136	06						168	9		HAG55A	02	HAG550V	01	1	THI	A2		05A	
02013		J2136	08		J2115	19			168	9		HAG550V	01	HAG550V	00	1	THI	A2		04A	
02014		J2115	19		J2104	62			168	9		HAG550V	02	HADCNO	01	2	TQ2	B3		09B	
02015		J2104	62						168	9		HAG550V	03	HADMZ2	07	7	EXT				
02016		J2138	27		J2136	04			168	9		HAG56A	01	HAG56A	00	1	TQ2	B4		13B	
02017		J2136	04						168	9		HAG56A	02	HAG560V	01	1	THI	A3		02A	
02018		J2136	03		J2115	25			168	9		HAG560V	01	HAG560V	00	1	THI	A3		03A	
02019		J2115	25		J2104	63			168	9		HAG560V	02	HADCNO	01	2	TQ2	B4		12B	
02020		J2104	63						168	9		HAG560V	03	HADMZ2	07	8	EXT				
02021		J2138	38		J2136	05			168	9		HAG57A	01	HAG57A	00	1	TQ2	C1		18A	
02022		J2136	05						168	9		HAG57A	02	HAG570V	01	1	THI	A4		03B	
02023		J2136	01		J2115	42			168	9		HAG570V	01	HAG570V	00	1	THI	A4		02B	
02024		J2115	42		J2104	64			168	9		HAG570V	02	HADCP0	01	2	TQ2	C1		20A	
02025		J2104	64						168	9		HAG570V	03	HADMZ2	08	1	EXT				
02026		J2138	30		J2136	09			168	9		HAG58A	01	HAG58A	00	1	TQ2	C2		15A	
02027		J2136	09						168	9		HAG58A	02	HAG580V	01	1	THI	A5		05B	
02028		J2136	07		J2115	36			168	9		HAG580V	01	HAG580V	00	1	THI	A5		04B	
02029		J2115	36		J2104	65			168	9		HAG580V	02	HADCQ0	01	2	TQ2	C2		17A	
02030		J2104	65						168	9		HAG580V	03	HADMZ2	08	2	EXT				
02031		J2138	33		J2136	15			168	9		HAG59A	01	HAG59A	00	1	TQ2	C3		16B	
02032		J2136	15						168	9		HAG59A	02	HAG590V	01	1	THI	A6		07B	
02033		J2136	10		J2115	31			168	9		HAG590V	01	HAG590V	00	1	THI	A6		06B	
02034		J2115	31		J2104	66			168	9		HAG590V	02	HADCRO	01	2	TQ2	C3		15B	
02035		J2104	66						168	9		HAG590V	03	HADMZ2	08	3	EXT				
02036		J2138	39		J2136	22			168	9		HAG60A	01	HAG60A	00	1	TQ2	C4		19B	
02037		J2136	22						168	9		HAG60A	02	HAG600V	01	1	THI	B1		14A	
02038		J2136	24		J2115	37			168	9		HAG600V	01	HAG600V	00	1	THI	B1		13A	
02039		J2115	37		J2104	68			168	9		HAG600V	02	HADC50	01	2	TQ2	C4		18B	
02040		J2104	68						168	9		HAG600V	03	HADMZ2	08	4	EXT				
01493		J2134	80		J2136	23			168	9		HAG61A	01	HAG61A	00	1	TQ2	F4		39A	
02042		J2136	23						168	9		HAG61A	02	HAG610V	01	1	THI	B2		12A	

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG61A  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 49

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT											
02043		J2136	25		J2115	56				168	9		HAG610V	01	HAG610V	00	1	THI	B2		11A		
02044		J2115	56		J2104	69				168	9		HAG610V	02	HADCT0	01	2	TQ2	D1		26A		
02045		J2104	69		J2106	49				168	9		HAG610V	03	HADM2Z	08	5	EXT					A05
03241		J2106	49							168	9		HAG610V	04	HAGM1A	01	2	TQ2	D4		26B	A05	
02046		J2138	46		J2136	20				168	9		HAG62A	01	HAG62A	00	1	TQ2	D2		21A		
02047		J2136	20							168	9		HAG62A	02	HAG620V	01	1	THI	B3		10A		
02048		J2136	18		J2115	50				168	9		HAG620V	01	HAG620V	00	1	THI	B3		09A		
02049		J2115	50		J2104	70				168	9		HAG620V	02	HADCU0	01	2	TQ2	D2		23A		
02050		J2104	70							168	9		HAG620V	03	HADM2Z	08	6	EXT					
02051		J2138	45		J2136	17				168	9		HAG63A	01	HAG63A	00	1	TQ2	D3		24B		
02052		J2136	17							168	9		HAG63A	02	HAG630V	01	1	THI	B4		09B		
02053		J2136	14		J2115	43				168	9		HAG630V	01	HAG630V	00	1	THI	B4		08B		
02054		J2115	43		J2104	71				168	9		HAG630V	02	HADCVO	01	2	TQ2	D3		23B		
02055		J2104	71							168	9		HAG630V	03	HADM2Z	08	7	EXT					
02056		J2138	51		J2136	21				168	9		HAG64A	01	HAG64A	00	1	TQ2	D4		27B		
02057		J2136	21							168	9		HAG64A	02	HAG640V	01	1	THI	B5		11B		
02058		J2136	19		J2115	49				168	9		HAG640V	01	HAG640V	00	1	THI	B5		10B		
02059		J2115	49		J2104	72				168	9		HAG640V	02	HADCW0	01	2	TQ2	D4		26B		
02060		J2104	72							168	9		HAG640V	03	HADM2Z	08	8	EXT					
02061		J2136	27		J2134	38				168	9		HAG65A	01	HAG650V	01	1	THI	B6		13B		
02062		J2134	38							168	9		HAG65A	02	HAG65A	00	1	TQ2	C1		18A		
02063		J2136	26		J2115	70				168	9		HAG650V	01	HAG650V	00	1	THI	B6		12B		
02064		J2115	70		J2104	73				168	9		HAG650V	02	HADCX0	01	2	TQ2	E1		33A		
02065		J2104	73		J2109	36				168	9		HAG650V	03	HADM2Z	09	1	EXT					A05
03248		J2109	36							168	9		HAG650V	04	HAGM2A	01	2	TQ2	C2		17A	A05	
02066		J2136	38		J2134	30				168	9		HAG66A	01	HAG660V	01	1	THI	C1		20A		
02067		J2134	30							168	9		HAG66A	02	HAG66A	00	1	TQ2	C2		15A		
02068		J2136	40		J2115	64				168	9		HAG660V	01	HAG660V	00	1	THI	C1		19A		
02069		J2115	64		J2104	74				168	9		HAG660V	02	HADCY0	01	2	TQ2	E2		30A		
02070		J2104	74		J2109	37				168	9		HAG660V	03	HADM2Z	09	2	EXT					A05
03260		J2109	37							168	9		HAG660V	04	HAGM3A	01	2	TQ2	C4		18B	A05	
02071		J2136	35		J2134	33				168	9		HAG67A	01	HAG670V	01	1	THI	C2		18A		
02072		J2134	33							168	9		HAG67A	02	HAG67A	00	1	TQ2	C3		16B		
02073		J2136	37		J2115	55				168	9		HAG670V	01	HAG670V	00	1	THI	C2		17A		
02074		J2115	55		J2104	75				168	9		HAG670V	02	HADCZ0	01	2	TQ2	E3		29B		
02075		J2104	75							168	9		HAG670V	03	HADM2Z	09	3	EXT					

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAG670V  
 DATE 09-01-82 PAGE 50

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	FIN	BR IN	PREFIX	CONNECTOR	FIN	BR IN	MULTI GROUP	CODE	COLOR	IDENT												SPEC INST USE
02076		J2136	36		J2134	39				168	9		HAG68A	01	HAG680V	01	1	THI	C3		16A			
02077		J2134	39							168	9		HAG68A	02	HAG68A	00	1	TQ2	C4		19B			
02078		J2136	34		J2115	61				168	9		HAG680V	01	HAG680V	00	1	THI	C3		15A			
02079		J2115	61		J2104	76				168	9		HAG680V	02	HADD00	01	2	TQ2	E4		32B			
02080		J2104	76							168	9		HAG680V	03	HADM2Z	09	4	EXT						
02081		J2136	29		J2134	52				168	9		HAG69A	01	HAG690V	01	1	THI	C4		15B			
02082		J2134	52							168	9		HAG69A	02	HAG69A	00	1	TQ2	D1		24A			
02083	SAE	J2140	56		J2136	30				168	9		HAG690V	00	HAL69A	01	3	TT3	D1		26A		801	
02084		J2115	79		J2104	77				168	9		HAG690V	01	HAG690V	00	1	THI	C4		14B			
02085		J2104	77							168	9		HAG690V	02	HADD00	01	2	TQ2	F1		39B			
02086		J2136	33		J2134	46				168	9		HAG70A	01	HAG700V	01	1	THI	C5		17B			
02087		J2134	46							168	9		HAG70A	02	HAG70A	00	1	TQ2	D2		21A			
02088		J2136	31		J2115	73				168	9		HAG700V	01	HAG700V	00	1	THI	C5		16B			
02089		J2115	73		J2104	78				168	9		HAG700V	02	HADDC0	01	2	TQ2	F2		36B			
02090		J2104	78							168	9		HAG700V	03	HADM2Z	09	6	EXT						
02091		J2136	39		J2134	45				168	9		HAG71A	01	HAG710V	01	1	THI	C6		19B			
02092		J2134	45							168	9		HAG71A	02	HAG71A	00	1	TQ2	D3		24B			
02093		J2136	42		J2115	74				168	9		HAG710V	01	HAG710V	00	1	THI	C6		18B			
02094		J2115	74		J2104	79				168	9		HAG710V	02	HADD00	01	2	TQ2	F3		35B			
02095		J2104	79							168	9		HAG710V	03	HADM2Z	09	7	EXT						
02096		J2136	52		J2134	51				168	9		HAG72A	01	HAG720V	01	1	THI	D1		26A			
02097		J2134	51							168	9		HAG72A	02	HAG72A	00	1	TQ2	D4		27B			
02098		J2136	54		J2115	78				168	9		HAG720V	01	HAG720V	00	1	THI	D1		25A			
02099		J2115	78		J2104	80				168	9		HAG720V	02	HADDE0	01	2	TQ2	F4		38A			
02100		J2104	80		J2109	49				168	9		HAG720V	03	HADM2Z	09	8	EXT						
03259		J2109	49							168	9		HAG720V	04	HAGM4A	01	2	TQ2	D4		26B		A05	
02101		J2128	13		J2124	15				168	9		HAHA00V	01	HAHA00V	00	1	THI	A1		06A			
02102		J2124	15		J2105	73				168	9		HAHA00V	02	HAHA00V	01	1	THI	A6		07B			
02103		J2105	73							168	9		HAHA00V	03	HADM3Z	10	1	EXT						
02104		J2124	10		J2123	13				168	9		HAHA00V	01	HAHA00V	00	1	THI	A6		06B			
02105		J2123	13		J2122	13				168	9		HAHA00V	02	HAH071V101	01	1	R05	A1					
02106		J2122	13		J2121	13				168	9		HAHA00V	03	HAH041V101	01	1	R05	A1					
02107		J2121	13		J2121	37				168	9		HAHA00V	04	HAH011V101	01	1	R05	A1					
02108		J2121	37		J2122	37				168	9		HAHA00V	05	HAH021V101	01	1	R05	B1					
02109		J2122	37		J2123	37				168	9		HAHA00V	06	HAH051V101	01	1	R05	B1					
02110		J2123	37		J2122	60				168	9		HAHA00V	07	HAH081V101	01	1	R05	B1					
												****	SIGNAL	(HAHA00V)	IS ON THE	NEXT PAGE	****							

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAHA00V  
 DATE 09-01-82 PAGE 51

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH TO	PREFIX	CONNECTOR	PIN	SH TO	MULTI GROUP	CODE	COLOR											
02111		J2122	60		J2121	60				16B	9		HAHA00V	08	HAHO61V101	1	R05	C1				
02112		J2121	60		J2123	60				16B	9		HAHA00V	09	HAHO31V101	1	R05	C1				
02113		J2123	60							16B	9		HAHA00V	10	HAHO91V101	1	R05	C1				
02114		J2128	08		J2124	22				16B	9		HAHA1AV	01	HAHA1AV	00	1	THI	A2		04A	
02115		J2124	22		J2105	74				16B	9		HAHA1AV	02	HAHA10V	01	1	THI	B1		14A	
02116		J2105	74							16B	9		HAHA1AV	03	HADM3Z	10	2	EXT				
02117		J2124	24		J2123	17				16B	9		HAHA10V	01	HAHA10V	00	1	THI	B1		13A	
02118		J2123	17		J2122	17				16B	9		HAHA10V	02	HAHO72V101	1	R05	A2				
02119		J2122	17		J2121	17				16B	9		HAHA10V	03	HAHO42V101	1	R05	A2				
02120		J2121	17		J2121	39				16B	9		HAHA10V	04	HAHO12V101	1	R05	A2				
02121		J2121	39		J2122	39				16B	9		HAHA10V	05	HAHO22V101	1	R05	B2				
02122		J2122	39		J2123	39				16B	9		HAHA10V	06	HAHO52V101	1	R05	B2				
02123		J2123	39		J2123	59				16B	9		HAHA10V	07	HAHO82V101	1	R05	B2				
02124		J2123	59		J2122	59				16B	9		HAHA10V	08	HAHO92V101	1	R05	C2				
02125		J2122	59		J2121	59				16B	9		HAHA10V	09	HAHO62V101	1	R05	C2				
02126		J2121	59							16B	9		HAHA10V	10	HAHO32V101	1	R05	C2				
02127		J2128	03		J2124	23				16B	9		HAHA2AV	01	HAHA2AV	00	1	THI	A3		03A	
02128		J2124	23		J2105	75				16B	9		HAHA2AV	02	HAHA20V	01	1	THI	B2		12A	
02129		J2105	75							16B	9		HAHA2AV	03	HADM3Z	10	3	EXT				
02130		J2123	61		J2122	61				16B	9		HAHA20V	01	HAHO93V101	1	R05	C3				
02131		J2122	61		J2121	61				16B	9		HAHA20V	02	HAHO63V101	1	R05	C3				
02132		J2121	61		J2121	41				16B	9		HAHA20V	03	HAHO33V101	1	R05	C3				
02133		J2121	41		J2122	41				16B	9		HAHA20V	04	HAHO23V101	1	R05	B3				
02134		J2122	41		J2123	41				16B	9		HAHA20V	05	HAHO53V101	1	R05	B3				
02135		J2123	41		J2124	25				16B	9		HAHA20V	06	HAHO83V101	1	R05	B3				
02136		J2124	25		J2123	19				16B	9		HAHA20V	07	HAHA20V	00	1	THI	B2		11A	
02137		J2123	19		J2122	19				16B	9		HAHA20V	08	HAHO73V101	1	R05	A3				
02138		J2122	19		J2121	19				16B	9		HAHA20V	09	HAHO43V101	1	R05	A3				
02139		J2121	19							16B	9		HAHA20V	10	HAHO13V101	1	R05	A3				
02140		J2128	01		J2124	20				16B	9		HAHA3AV	01	HAHA3AV	00	1	THI	A4		02B	
02141		J2124	20		J2105	76				16B	9		HAHA3AV	02	HAHA30V	01	1	THI	B3		10A	
02142		J2105	76							16B	9		HAHA3AV	03	HADM3Z	10	4	EXT				
02143		J2124	18		J2123	25				16B	9		HAHA30V	01	HAHA30V	00	1	THI	B3		09A	
02144		J2123	25		J2122	25				16B	9		HAHA30V	02	HAHO74V101	1	R05	A4				
02145		J2122	25		J2121	25				16B	9		HAHA30V	03	HAHO44V101	1	R05	A4				
02146		J2121	25		J2121	49				16B	9		HAHA30V	04	HAHO14V101	1	R05	A4				
02147		J2121	49		J2122	49				16B	9		HAHA30V	05	HAHO24V101	1	R05	B4				
02148		J2122	49		J2123	49				16B	9		HAHA30V	06	HAHO54V101	1	R05	B4				
02149		J2123	49		J2123	69				16B	9		HAHA30V	07	HAHO84V101	1	R05	B4				
02150		J2123	69		J2122	69				16B	9		HAHA30V	08	HAHO94V101	1	R05	C4				
02151		J2122	69		J2121	69				16B	9		HAHA30V	09	HAHO64V101	1	R05	C4				
02152		J2121	69							16B	9		HAHA30V	10	HAHO34V101	1	R05	C4				
02153		J2128	07		J2124	17				16B	9		HAHA4AV	01	HAHA4AV	00	1	THI	A5		04B	

\*\*\*\* SIGNAL (HAHA4AV) IS ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAHA4AV  
 DATE 09-01-82 PAGE 52

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTORS	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	IN FC	PREFIX	CONNECTOR	PIN	IN FC	MULTI GROUP	CODE	COLOR	IDENT											
02154		J2124	17		J2105	77				168	9			HAHA4AV	02	HAHA40V	01	1	THI	B4			
02155		J2105	77							168	9			HAHA4AV	03	HADM3Z	10	5	EXT			09B	
02156		J2121	71		J2122	71				168	9			HAHA40V	01	HAHO35V101	1	1	RO5	C5			
02157		J2122	71		J2123	71				168	9			HAHA40V	02	HAHO65V101	1	1	RO5	C5			
02158		J2123	71		J2123	51				168	9			HAHA40V	03	HAHO95V101	1	1	RO5	C5			
02159		J2123	51		J2122	51				168	9			HAHA40V	04	HAHO85V101	1	1	RO5	B5			
02160		J2122	51		J2121	51				168	9			HAHA40V	05	HAHO55V101	1	1	RO5	B5			
02161		J2121	51		J2121	27				168	9			HAHA40V	06	HAHO25V101	1	1	RO5	B5			
02162		J2121	27		J2122	27				168	9			HAHA40V	07	HAHO15V101	1	1	RO5	A5			
02163		J2122	27		J2123	27				168	9			HAHA40V	08	HAHO45V101	1	1	RO5	A5			
02164		J2123	27		J2124	14				168	9			HAHA40V	09	HAHO75V101	1	1	RO5	A5			
02165		J2124	14							168	9			HAHA40V	10	HAHA40V	00	1	THI	B4		08B	
02166		J2128	10		J2124	21				168	9			HAHA5AV	01	HAHA5AV	00	1	THI	A6		06B	
02167		J2124	21		J2105	78				168	9			HAHA5AV	02	HAHA50V	01	1	THI	B5		11B	
02168		J2105	78							168	9			HAHA5AV	03	HADM3Z	10	6	EXT				
02169		J2124	19		J2123	31				168	9			HAHA50V	01	HAHA50V	00	1	THI	B5		10B	
02170		J2123	31		J2122	31				168	9			HAHA50V	02	HAHO76V101	1	1	RO5	A6			
02171		J2122	31		J2121	31				168	9			HAHA50V	03	HAHO46V101	1	1	RO5	A6			
02172		J2121	31		J2121	53				168	9			HAHA50V	04	HAHO16V101	1	1	RO5	A6			
02173		J2121	53		J2122	53				168	9			HAHA50V	05	HAHO26V101	1	1	RO5	B6			
02174		J2122	53		J2123	53				168	9			HAHA50V	06	HAHO56V101	1	1	RO5	B6			
02175		J2123	53		J2123	73				168	9			HAHA50V	07	HAHO86V101	1	1	RO5	B6			
02176		J2123	73		J2122	73				168	9			HAHA50V	08	HAHO96V101	1	1	RO5	C6			
02177		J2122	73		J2121	73				168	9			HAHA50V	09	HAHO66V101	1	1	RO5	C6			
02178		J2121	73							168	9			HAHA50V	10	HAHO36V101	1	1	RO5	C6			
02179		J2125	05		J2121	15				168	9			HAHO11V1	01				RR1	A1			
02180		J2121	15		J2107	10				168	9			HAHO11V1	02	HAHO11V100	1	1	RO5	A1		T01	
02181		J2107	10		J2105	01				168	9			HAHO11V1	03	HAP01D	01	2	TLD	A1		07A	
02182		J2105	01							168	9			HAHO11V1	04	HADM3Z	01	1	EXT				
02183		J2125	06		J2121	18				168	9			HAHO12V1	01				RR1	A2			
02184		J2121	18		J2107	05				168	9			HAHO12V1	02	HAHO12V100	1	1	RO5	A2		T02	
02185		J2107	05		J2105	02				168	9			HAHO12V1	03	HAP02D	01	2	TLD	A2		03B	
02186		J2105	02							168	9			HAHO12V1	04	HADM3Z	01	2	EXT				
02187		J2125	07		J2121	20				168	9			HAHO13V1	01				RR1	A3			
02188		J2121	20		J2107	07				168	9			HAHO13V1	02	HAHO13V100	1	1	RO5	A3		T03	
02189		J2107	07		J2105	03				168	9			HAHO13V1	03	HAP03D	01	2	TLD	A3		03A	
02190		J2105	03							168	9			HAHO13V1	04	HADM3Z	01	3	EXT				
03569	SAE	J2140	53		J2125	08				168	9			HAHO14V1	00	HAL04A	01	1	TT3	E2		28B	D01
02191		J2125	08		J2121	22				168	9			HAHO14V1	01				RR1	A4			
02192		J2121	22		J2107	13				168	9			HAHO14V1	02	HAHO14V100	1	1	RO5	A4		T04	
02193		J2107	13		J2105	04				168	9			HAHO14V1	03	HAP04D	01	2	TLD	A4		06B	
02194		J2105	04							168	9			HAHO14V1	04	HADM3Z	01	4	EXT				
										****	SIGNAL	(HAHO15V1)	IS ON THE	NEXT PAGE	****								

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAH015V1  
 DATE 09-01-82 PAGE 53

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CXT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	SH TO	PREFIX	CONNECTOR	PIN	SH TO	MULTI GROUP	CODE	COLOR												IDENT
02195		J2125	09		J2121	24				16B	9		HAH015V1	01			RR1	A5					
02196		J2121	24		J2107	26				16B	9		HAH015V1	02	HAH015V1	00	1	RO5	A5		T05		
02197		J2107	26		J2105	05				16B	9		HAH015V1	03	HAP05D	01	2	TLD	B1		14A		
02198		J2105	05							16B	9		HAH015V1	04	HADM3Z	01	5	EXT					
02199		J2125	10		J2121	26				16B	9		HAH016V1	01			RR1	A6					
02200		J2121	26		J2107	20				16B	9		HAH016V1	02	HAH016V1	00	1	RO5	A6		T06		
02201		J2107	20		J2105	06				16B	9		HAH016V1	03	HAP06D	01	2	TLD	B2		11A		
02202		J2105	06							16B	9		HAH016V1	04	HADM3Z	01	6	EXT					
02203		J2125	17		J2121	29				16B	9		HAH017V1	01			RR1	B1					
02204		J2121	29		J2107	19				16B	9		HAH017V1	02	HAH017V1	00	1	RO5	A7		T07		
02205		J2107	19		J2105	07				16B	9		HAH017V1	03	HAP07D	01	2	TLD	B3		09B		
02206		J2105	07							16B	9		HAH017V1	04	HADM3Z	01	7	EXT					
03522	SAE	J2140	06		J2125	18				16B	9		HAH018V1	00	HAL08A	01	1	TT3	A1		05A		801
02207		J2125	18		J2121	34				16B	9		HAH018V1	01			RR1	B2					
02208		J2121	34		J2107	25				16B	9		HAH018V1	02	HAH018V1	00	1	RO5	A8		T08		
02209		J2107	25		J2105	08				16B	9		HAH018V1	03	HAP08D	01	2	TLD	B4		12B		
02210		J2105	08							16B	9		HAH018V1	04	HADM3Z	01	8	EXT					
02211		J2125	19		J2121	38				16B	9		HAH021V1	01			RR1	B3					
02212		J2121	38		J2107	42				16B	9		HAH021V1	02	HAH021V1	00	1	RO5	B1		T09		
02213		J2107	42		J2105	09				16B	9		HAH021V1	03	HAP09D	01	2	TLD	C1		20A		
02214		J2105	09							16B	9		HAH021V1	04	HADM3Z	02	1	EXT					
02215		J2125	20		J2121	40				16B	9		HAH022V1	01			RR1	B4					
02216		J2121	40		J2107	36				16B	9		HAH022V1	02	HAH022V1	00	1	RO5	B2		T10		
02217		J2107	36		J2105	10				16B	9		HAH022V1	03	HAP10D	01	2	TLD	C2		17A		
02218		J2105	10							16B	9		HAH022V1	04	HADM3Z	02	2	EXT					
02219		J2125	24		J2121	42				16B	9		HAH023V1	01			RR1	B5					
02220		J2121	42		J2107	31				16B	9		HAH023V1	02	HAH023V1	00	1	RO5	B3		T11		
02221		J2107	31		J2105	11				16B	9		HAH023V1	03	HAP11D	01	2	TLD	C3		15B		
02222		J2105	11							16B	9		HAH023V1	04	HADM3Z	02	3	EXT					
02223		J2125	26		J2121	46				16B	9		HAH024V1	01			RR1	B6					
02224		J2121	46		J2107	37				16B	9		HAH024V1	02	HAH024V1	00	1	RO5	B4		T12		
02225		J2107	37		J2105	12				16B	9		HAH024V1	03	HAP12D	01	2	TLD	C4		18B		
02226		J2105	12							16B	9		HAH024V1	04	HADM3Z	02	4	EXT					
02227		J2125	23		J2121	48				16B	9		HAH025V1	01			RR1	C1					
02228		J2121	48		J2107	56				16B	9		HAH025V1	02	HAH025V1	00	1	RO5	B5		T13		
02229		J2107	56		J2105	13				16B	9		HAH025V1	03	HAP13D	01	2	TLD	D1		26A		
02230		J2105	13							16B	9		HAH025V1	04	HADM3Z	02	5	EXT					
03519	SAE	J2140	03		J2125	25				16B	9		HAH026V1	00	HAL14A	01	2	TT3	A2		02A		801
02231		J2125	25		J2121	50				16B	9		HAH026V1	01			RR1	C2					
02232		J2121	50		J2107	50				16B	9		HAH026V1	02	HAH026V1	00	1	RO5	B6		T14		
02233		J2107	50		J2105	14				16B	9		HAH026V1	03	HAP14D	01	2	TLD	D2		23A		
										****	SIGNAL	(HAH026V1)	IS ON THE NEXT PAGE										****



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAH026V1  
 DATE 09-01-82 PAGE 54

RECORD NUMBER	FROM				TO				WIRE				SPEC INST	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	OR	PREFIX	CONNECTOR	PIN	OR	SH %	MULTI GROUP	CODE	COLOR										IDENT	AND		
02234		J2105	14							168	9			HAH026V1	04	HADM3Z	02	6	EXT						
03577	SAE	J2140	61		J2125	29				168	9			HAH027V1	00	HAL15A	01	3	TT3	E3		32B		001	
02235		J2125	29		J2121	52				168	9			HAH027V1	01				RR1	C3					
02236		J2121	52		J2107	43				168	9			HAH027V1	02	HAH027V1	00	1	R05	B7			T15		
02237		J2107	43		J2105	15				168	9			HAH027V1	03	HAP15D	01	2	TLD	D3			23B		
02238		J2105	15							168	9			HAH027V1	04	HADM3Z	02	7	EXT						
02239		J2125	30		J2121	54				168	9			HAH028V1	01				RR1	C4					
02240		J2121	54		J2107	49				168	9			HAH028V1	02	HAH028V1	00	1	R05	B8			T16		
02241		J2107	49		J2105	16				168	9			HAH028V1	03	HAP16D	01	2	TLD	D4			26B		
02242		J2105	16							168	9			HAH028V1	04	HADM3Z	02	8	EXT						
03529	SAE	J2140	13		J2125	38				168	9			HAH031V1	00	HAL17A	01	3	TT3	A3			06B		801
02243		J2125	38		J2121	62				168	9			HAH031V1	01				RR1	C5					
02244		J2121	62		J2107	70				168	9			HAH031V1	02	HAH031V1	00	1	R05	C1			T17		
02245		J2107	70		J2105	17				168	9			HAH031V1	03	HAP17D	01	2	TLD	E1			33A		
02246		J2105	17							168	9			HAH031V1	04	HADM3Z	03	1	EXT						
02247		J2125	36		J2121	64				168	9			HAH032V1	01				RR1	C6					
02248		J2121	64		J2107	64				168	9			HAH032V1	02	HAH032V1	00	1	R05	C2			T18		
02249		J2107	64		J2105	18				168	9			HAH032V1	03	HAP18D	01	2	TLD	E2			30A		
02250		J2105	18							168	9			HAH032V1	04	HADM3Z	03	2	EXT						
02251		J2125	35		J2121	66				168	9			HAH033V1	01				RR1	D1					
02252		J2121	66		J2107	55				168	9			HAH033V1	02	HAH033V1	00	1	R05	C3			T19		
02253		J2107	55		J2105	19				168	9			HAH033V1	03	HAP19D	01	2	TLD	E3			29B		
02254		J2105	19							168	9			HAH033V1	04	HADM3Z	03	3	EXT						
02255		J2125	37		J2121	68				168	9			HAH034V1	01				RR1	D2					
02256		J2121	68		J2107	61				168	9			HAH034V1	02	HAH034V1	00	1	R05	C4			T21		
02257		J2107	61		J2105	20				168	9			HAH034V1	03	HAP20D	01	2	TLD	E4			32B		
02258		J2105	20							168	9			HAH034V1	04	HADM3Z	03	4	EXT						
02259		J2125	39		J2121	70				168	9			HAH035V1	01				RR1	D3					
02260		J2121	70		J2107	79				168	9			HAH035V1	02	HAH035V1	00	1	R05	C5			T20		
02261		J2107	79		J2105	21				168	9			HAH035V1	03	HAP21D	01	2	TLD	F1			39B		
02262		J2105	21							168	9			HAH035V1	04	HADM3Z	03	5	EXT						
02263		J2125	40		J2121	72				168	9			HAH036V1	01				RR1	D4					
02264		J2121	72		J2107	73				168	9			HAH036V1	02	HAH036V1	00	1	R05	C6			T22		
02265		J2107	73		J2105	22				168	9			HAH036V1	03	HAP22D	01	2	TLD	F2			36B		
02266		J2105	22							168	9			HAH036V1	04	HADM3Z	03	6	EXT						
02267		J2125	42		J2121	74				168	9			HAH037V1	01				RR1	D5					
02268		J2121	74		J2107	74				168	9			HAH037V1	02	HAH037V1	00	1	R05	C7			T23		
02269		J2107	74		J2105	23				168	9			HAH037V1	03	HAP23D	01	2	TLD	F3			35B		
02270		J2105	23							168	9			HAH037V1	04	HADM3Z	03	7	EXT						
02271		J2125	46		J2121	76				168	9			HAH038V1	01				RR1	D6					

\*\*\* SIGNAL (HAH038V1) IS ON THE NEXT PAGE \*\*\*

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAH038V1  
 DATE 09-01-82 PAGE 55

RECORD NUMBER	FROM			TO			WIRE				SPEC INST	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SH 10	MULTI GROUP	CODE	COLOR												
02272		J2121	76		J2107	78			168	9		HAH038V1	02	HAH038V1	00	1	R05	C8		T24		
02273		J2107	78		J2105	24			168	9		HAH038V1	03	HAP24D	01	2	TLD	F4		38A		
02274		J2105	24						168	9		HAH038V1	04	HADM3Z	03	8	EXT					
02275		J2125	41		J2122	15			168	9		HAH041V1	01				RR1	E1				
02276		J2122	15		J2110	10			168	9		HAH041V1	02	HAH041V1	00	1	R05	A1		T01		
02277		J2110	10		J2105	25			168	9		HAH041V1	03	HAP25D	01	2	TLD	A1		07A		
02278		J2105	25						168	9		HAH041V1	04	HADM3Z	04	1	EXT					
03591	SAE	J2140	75		J2125	45			168	9		HAH042V1	00	HAL26A	01	1	TT3	F1		37B	D01	
02279		J2125	45		J2122	18			168	9		HAH042V1	01				RR1	E2				
02280		J2122	18		J2110	05			168	9		HAH042V1	02	HAH042V1	00	1	R05	A2		T02		
02281		J2110	05		J2105	26			168	9		HAH042V1	03	HAP26D	01	2	TLD	A2		03B		
02282		J2105	26						168	9		HAH042V1	04	HADM3Z	04	2	EXT					
02283		J2125	47		J2122	20			168	9		HAH043V1	01				RR1	E3				
02284		J2122	20		J2110	07			168	9		HAH043V1	02	HAH043V1	00	1	R05	A3		T03		
02285		J2110	07		J2105	27			168	9		HAH043V1	03	HAP27D	01	2	TLD	A3		03A		
02286		J2105	27						168	9		HAH043V1	04	HADM3Z	04	3	EXT					
02287		J2125	48		J2122	22			168	9		HAH044V1	01				RR1	E4				
02288		J2122	22		J2110	13			168	9		HAH044V1	02	HAH044V1	00	1	R05	A4		T04		
02289		J2110	13		J2105	28			168	9		HAH044V1	03	HAP28D	01	2	TLD	A4		06B		
02290		J2105	28						168	9		HAH044V1	04	HADM3Z	04	4	EXT					
03538	SAE	J2140	22		J2125	52			168	9		HAH045V1	00	HAL29A	01	1	TT3	B1		12A	B01	
02291		J2125	52		J2122	24			168	9		HAH045V1	01				RR1	E5				
02292		J2122	24		J2110	26			168	9		HAH045V1	02	HAH045V1	00	1	R05	A5		T05		
02293		J2110	26		J2105	29			168	9		HAH045V1	03	HAP29D	01	2	TLD	B1		14A		
02294		J2105	29						168	9		HAH045V1	04	HADM3Z	04	5	EXT					
02295		J2125	54		J2122	26			168	9		HAH046V1	01				RR1	E6				
02296		J2122	26		J2110	20			168	9		HAH046V1	02	HAH046V1	00	1	R05	A6		T06		
02297		J2110	20		J2105	30			168	9		HAH046V1	03	HAP30D	01	2	TLD	B2		11A		
02298		J2105	30						168	9		HAH046V1	04	HADM3Z	04	6	EXT					
02299		J2125	51		J2122	29			168	9		HAH047V1	01				RR1	F1				
02300		J2122	29		J2110	19			168	9		HAH047V1	02	HAH047V1	00	1	R05	A7		T07		
02301		J2110	19		J2105	31			168	9		HAH047V1	03	HAP31D	01	2	TLD	B3		09B		
02302		J2105	31						168	9		HAH047V1	04	HADM3Z	04	7	EXT					
02303		J2125	53		J2122	34			168	9		HAH048V1	01				RR1	F2				
02304		J2122	34		J2110	25			168	9		HAH048V1	02	HAH048V1	00	1	R05	A8		T08		
02305		J2110	25		J2105	32			168	9		HAH048V1	03	HAP32D	01	2	TLD	B4		12B		
02306		J2105	32						168	9		HAH048V1	04	HADM3Z	04	8	EXT					
02307		J2125	55		J2122	38			168	9		HAH051V1	01				RR1	F3				
02308		J2122	38		J2110	42			168	9		HAH051V1	02	HAH051V1	00	1	R05	B1		T09		
02309		J2110	42		J2105	33			168	9		HAH051V1	03	HAP33D	01	2	TLD	C1		20A		
02310		J2105	33						168	9		HAH051V1	04	HADM3Z	05	1	EXT					



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAH063V1  
 DATE 09-01-82 PAGE 57

RECORD NUMBER	FROM			SH FT	TO			WIRE	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN										AND	OR		
02348		J2122	66		J2110	55		168 9	HAH063V1	02	HAH063V1	00	1	R05	C3			T19		
02349		J2110	55		J2105	43		168 9	HAH063V1	03	HAP43D	01	2	TLD	E3			298		
02350		J2105	43					168 9	HAH063V1	04	HADM3Z	06	3	EXT						
02351		J2125	73		J2122	68		168 9	HAH064V1	01				RR1	H2					
02352		J2122	68		J2110	61		168 9	HAH064V1	02	HAH064V1	00	1	R05	C4			T21		
02353		J2110	61		J2105	44		168 9	HAH064V1	03	HAP44D	01	2	TLD	E4			328		
02354		J2105	44					168 9	HAH064V1	04	HADM3Z	06	4	EXT						
02355		J2125	75		J2122	70		168 9	HAH065V1	01				RR1	H3					
02356		J2122	70		J2110	79		168 9	HAH065V1	02	HAH065V1	00	1	R05	C5			T20		
02357		J2110	79		J2105	45		168 9	HAH065V1	03	HAP45D	01	2	TLD	F1			398		
02358		J2105	45					168 9	HAH065V1	04	HADM3Z	06	5	EXT						
03554	SAE	J2140	38		J2125	76		168 9	HAH066V1	00	HAL46A	01	1	TT3	C1			18A		801
02359		J2125	76		J2122	72		168 9	HAH066V1	01				RR1	H4					
02360		J2122	72		J2110	73		168 9	HAH066V1	02	HAH066V1	00	1	R05	C6			T22		
02361		J2110	73		J2105	46		168 9	HAH066V1	03	HAP46D	01	2	TLD	F2			368		
02362		J2105	46					168 9	HAH066V1	04	HADM3Z	06	6	EXT						
02363		J2125	77		J2122	74		168 9	HAH067V1	01				RR1	H5					
02364		J2122	74		J2110	74		168 9	HAH067V1	02	HAH067V1	00	1	R05	C7			T23		
02365		J2110	74		J2105	47		168 9	HAH067V1	03	HAP47D	01	2	TLD	F3			358		
02366		J2105	47					168 9	HAH067V1	04	HADM3Z	06	7	EXT						
03581	SAE	J2140	65		J2125	78		168 9	HAH068V1	00	HAL48A	01	1	TT3	F2			348		001
02367		J2125	78		J2122	76		168 9	HAH068V1	01				RR1	H6					
02368		J2122	76		J2110	78		168 9	HAH068V1	02	HAH068V1	00	1	R05	C8			T24		
02369		J2110	78		J2105	48		168 9	HAH068V1	03	HAP48D	01	2	TLD	F4			38A		
02370		J2105	48					168 9	HAH068V1	04	HADM3Z	06	8	EXT						
02371		J2127	05		J2123	15		168 9	HAH071V1	01				RR1	A1					
02372		J2123	15		J2113	10		168 9	HAH071V1	02	HAH071V1	00	1	R05	A1			T01		
02373		J2113	10		J2105	49		168 9	HAH071V1	03	HAP49D	01	2	TLD	A1			07A		
02374		J2105	49					168 9	HAH071V1	04	HADM3Z	07	1	EXT						
03545	SAE	J2140	29		J2127	06		168 9	HAH072V1	00	HAL50A	01	1	TT3	C2			148		801
02375		J2127	06		J2123	18		168 9	HAH072V1	01				RR1	A2					
02376		J2123	18		J2113	05		168 9	HAH072V1	02	HAH072V1	00	1	R05	A2			T02		
02377		J2113	05		J2105	50		168 9	HAH072V1	03	HAP50D	01	2	TLD	A2			03B		
02378		J2105	50					168 9	HAH072V1	04	HADM3Z	07	2	EXT						
02379		J2127	07		J2123	20		168 9	HAH073V1	01				RR1	A3					
02380		J2123	20		J2113	07		168 9	HAH073V1	02	HAH073V1	00	1	R05	A3			T03		
02381		J2113	07		J2105	51		168 9	HAH073V1	03	HAP51D	01	2	TLD	A3			03A		
02382		J2105	51					168 9	HAH073V1	04	HADM3Z	07	3	EXT						
02383		J2127	08		J2123	22		168 9	HAH074V1	01				RR1	A4					
02384		J2123	22		J2113	13		168 9	HAH074V1	02	HAH074V1	00	1	R05	A4			T04		
02385		J2113	13		J2105	52		168 9	HAH074V1	03	HAP52D	01	2	TLD	A4			06B		

\*\*\*\* SIGNAL (HAH074V1) IS ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3M2S2

REV E INDEX HAH086V1  
 DATE 09-01-82 PAGE 59

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACT	CCT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SI PO	PREFIX	CONNECTOR	PIN	SI PO	MULTI GROUP	CODE	COLOR	IDENT											
02424		J2113	50		J2105	62			168	9			HAH086V1	03	HAP62D	01	2	TLD	D2		23A		
02425		J2105	62						168	9			HAH086V1	04	HADM3Z	08	6	EXT					
02426		J2127	29		J2123	52			168	9			HAH087V1	01				RR1	C3				
02427		J2123	52		J2113	43			168	9			HAH087V1	02	HAH087V1	00	1	RO5	B7		T15		
02428		J2113	43		J2105	63			168	9			HAH087V1	03	HAP63D	01	2	TLD	D3		23B		
02429		J2105	63						168	9			HAH087V1	04	HADM3Z	08	7	EXT					
02430		J2127	30		J2123	54			168	9			HAH088V1	01				RR1	C4				
02431		J2123	54		J2113	49			168	9			HAH088V1	02	HAH088V1	00	1	RO5	B8		T16		
02432		J2113	49		J2105	64			168	9			HAH088V1	03	HAP64D	01	2	TLD	D4		26B		
02433		J2105	64						168	9			HAH088V1	04	HADM3Z	08	8	EXT					
02434		J2127	38		J2123	62			168	9			HAH091V1	01				RR1	C5				
02435		J2123	62		J2113	70			168	9			HAH091V1	02	HAH091V1	00	1	RO5	C1		T17		
02436		J2113	70		J2105	65			168	9			HAH091V1	03	HAP65D	01	2	TLD	E1		33A		
02437		J2105	65						168	9			HAH091V1	04	HADM3Z	09	1	EXT					
03592	SAE	J2140	76		J2127	36			168	9			HAH092V1	00	HAL66A	01	2	TT3	F3		37A	001	
02438		J2127	36		J2123	64			168	9			HAH092V1	01				RR1	C6				
02439		J2123	64		J2113	64			168	9			HAH092V1	02	HAH092V1	00	1	RO5	C2		T18		
02440		J2113	64		J2105	66			168	9			HAH092V1	03	HAP66D	01	2	TLD	E2		30A		
02441		J2105	66						168	9			HAH092V1	04	HADM3Z	09	2	EXT					
02442		J2127	35		J2123	66			168	9			HAH093V1	01				RR1	D1				
02443		J2123	66		J2113	55			168	9			HAH093V1	02	HAH093V1	00	1	RO5	C3		T19	A01	
02462		J2113	55		J2105	67			168	9			HAH093V1	03	HAP67D	01	2	TLD	E3		29B	A01	
02444		J2105	67						168	9			HAH093V1	04	HADM3Z	09	3	EXT					A01
02445		J2127	37		J2123	68			168	9			HAH094V1	01				RR1	D2				
02446		J2123	68		J2113	61			168	9			HAH094V1	02	HAH094V1	00	1	RO5	C4		T21		
02447		J2113	61		J2105	68			168	9			HAH094V1	03	HAP68D	01	2	TLD	E4		32B		
02448		J2105	68						168	9			HAH094V1	04	HADM3Z	09	4	EXT					
03568	SAE	J2140	52		J2127	39			168	9			HAH095V1	00	HAL69A	01	1	TT3	D1		24A	801	
02449		J2127	39		J2123	70			168	9			HAH095V1	01				RR1	D3				
02450		J2123	70		J2113	79			168	9			HAH095V1	02	HAH095V1	00	1	RO5	C5		T20		
02451		J2113	79		J2105	69			168	9			HAH095V1	03	HAP69D	01	2	TLD	F1		39B		
02452		J2105	69						168	9			HAH095V1	04	HADM3Z	09	5	EXT					
02453		J2127	40		J2123	72			168	9			HAH096V1	01				RR1	D4				
02454		J2123	72		J2113	73			168	9			HAH096V1	02	HAH096V1	00	1	RO5	C6		T22		
02455		J2113	73		J2105	70			168	9			HAH096V1	03	HAP70D	01	2	TLD	F2		36B		
02456		J2105	70						168	9			HAH096V1	04	HADM3Z	09	6	EXT					
02457		J2127	42		J2123	74			168	9			HAH097V1	01				RR1	D5				
02458		J2123	74		J2113	74			168	9			HAH097V1	02	HAH097V1	00	1	RO5	C7		T23		
02459		J2113	74		J2105	71			168	9			HAH097V1	03	HAP71D	01	2	TLD	F3		35B		
02460		J2105	71						168	9			HAH097V1	04	HADM3Z	09	7	EXT					
									****	SIGNAL	(HAH098V1)	IS ON THE	NEXT PAGE	****									

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAH098V1  
 DATE 09-01-82 PAGE 60

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GRP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SLT	PREFIX	CONNECTOR	PIN	SLT	MULTI GROUP	CODE	COLOR	IDENT											
02461		J2105	72		J2113	78			168	9			HAH098V1	01	HADM3Z	09	8	EXT					A01
02463		J2113	78		J2123	76			168	9			HAH098V1	03	HAP72D	01	2	TLD	F4			38A	
02464		J2123	76		J2127	46			168	9			HAH098V1	04	HAH098V1	00	1	RO5	C8			T24	
02465		J2127	46						168	9			HAH098V1	05				RR1	D6				
02466		J2109	06		J2106	08			168	9			HAIAAA	01	HAIAAA	00	1	TQ2	A1			05A	
02467		J2106	08						168	9			HAIAAA	02	HADAAO	01	1	TQ2	A1			06A	
02468		J2117	04		J2106	03			168	9			HAIABA	01	HAIABA	00	1	TT3	A1			04A	
02469		J2106	03						168	9			HAIABA	02	HADACO	01	1	TQ2	A3			02A	
02470		J2109	09		J2106	11			168	9			HAIACA	01	HAIACA	00	1	TQ2	A3			04B	
02471		J2106	11						168	9			HAIACA	02	HADAE0	01	1	TQ2	A4			05B	
02472		J2109	11		J2106	38			168	9			HAIADA	01	HADAF0	01	1	TQ2	A4			05B	
02473		J2106	38						168	9			HAIADA	02	HAIADA	00	1	TQ2	C1			18A	
02474		J2109	24		J2117	31			168	9			HAIAEA	01	HADAGO	01	1	TQ2	B1			13A	A05
03626		J2117	31						168	9			HAIAEA	02	HAIAEA	00	1	TT3	C2			15B	A05
02476		J2109	18		J2117	39			168	9			HAIAFA	01	HADAHO	01	1	TQ2	B2			10A	A05
03627		J2117	39		J2141	76			168	9			HAIAFA	02	HAIAFA	00	1	TT3	C3			19B	B01
03367		J2141	76						168	9			HAIAFA	03	HAIAF0V	01	1	TH1	F5			37A	B01
03658		J2141	78	SAE	J2140	08			168	9			HAIAF0V	01	HAIAF0V	00	1	TH1	F5			36A	B01
03524	SAE	J2140	08						168	9			HAIAF0V	02	HAL08A	01	2	TT3	A1			06A	B01
02478		J2117	50		J2106	48			168	9			HAIAGA	01	HAIAGA	00	1	TT3	D1			23A	
02479		J2106	48						168	9			HAIAGA	02	HADAKO	01	1	TQ2	D2			22A	
02480		J2109	45		J2106	68			168	9			HAIAHA	01	HAIAHA	00	1	TQ2	D3			24B	
02481		J2106	68						168	9			HAIAHA	02	HADAMO	01	1	TQ2	E1			32A	
02482		J2135	47		J2109	54			168	9			HAIATA	01	HAIATA	00	1	TD4	D1			25B	
02483		J2109	54						168	9			HAIATA	02	HADAPO	01	1	TQ2	D1			25A	
02484		J2117	43		J2109	62			168	9			HAIAJA	01	HAIAJA	00	1	TT3	D2			23B	
02485		J2109	62						168	9			HAIAJA	02	HADASO	01	1	TQ2	E2			29A	
02486		J2109	53		J2135	21			168	9			HAIAKA	01	HADATO	01	1	TQ2	E3			28B	A05
03632		J2135	21						168	9			HAIAKA	02	HAIAKA	00	1	TD4	B2			10B	A05
02488		J2109	59		J2106	63			168	9			HAIALA	01	HADAUO	01	1	TQ2	E4			31B	
02489		J2106	63						168	9			HAIALA	02	HAIALA	00	1	TQ2	E4			33B	
02490		J2109	72		J2106	65			168	9			HAIBAA	01	HAIBAA	00	1	TQ2	F2			34A	
02491		J2106	65						168	9			HAIBAA	02	HADBCO	01	1	TQ2	F3			34B	
02492		J2114	06		J2111	08			168	9			HAIBBA	01	HAIBBA	00	1	TQ2	A1			05A	
02493		J2111	08						168	9			HAIBBA	02	HADBE0	01	1	TQ2	A1			06A	

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAIBBA  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 61

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH FT	PREFIX	CONNECTOR	PIN	SH FT	MULTI GROUP	CODE	COLOR	IDENT								AND	OR		
02494		J2117	07		J2111	03			168	9			HAIBCA	01	HAIBCA	00	1	TT3	A2	03A			
02495		J2111	03						168	9			HAIBCA	02	HADBG0	01	1	TQ2	A3	02A			
02496		J2114	01		J2111	18			168	9			HAIBDA	01	HAIBDA	00	1	TQ2	A2	02B			
02497		J2111	18						168	9			HAIBDA	02	HADBJ0	01	1	TQ2	B2	10A			
02498		J2114	09		J2111	17			168	9			HAIBEA	01	HAIBEA	00	1	TQ2	A3	04B			
02499		J2111	17						168	9			HAIBEA	02	HADBK0	01	1	TQ2	B3	08B			
02500		J2114	22		J2111	23			168	9			HAIBFA	01	HAIBFA	00	1	TQ2	B1	12A	(652+MEM POS CP)		
02501		J2111	23						168	9			HAIBFA	02	HADBL0	01	1	TQ2	B4	11B			
02502		J2114	14		J2111	34			168	9			HAIBGA	01	HAIBGA	00	1	TQ2	B2	09A			
02503		J2111	34		J2112	45			168	9			HAIBGA	02	HADBN0	01	1	TQ2	C2	16A		801	
03253		J2112	45						168	9			HAIBGA	03	HAIBGOV	01	1	THI	O5	25B		801	
03621		J2112	43	SAE	J2140	14			168	9			HAIBGOV	01	HAIBGOV	00	1	THI	D5	24B		801	
03530	SAE	J2140	14						168	9			HAIBGOV	02	HAL34A	01	1	TT3	B2	09A		801	
02504		J2114	21		J2111	29			168	9			HAIBHA	01	HAIBHA	00	1	TQ2	B3	10B			
02505		J2111	29						168	9			HAIBHA	02	HADBP0	01	1	TQ2	C3	14B			
02506		J2114	27		J2111	54			168	9			HAIBIA	01	HAIBIA	00	1	TQ2	B4	13B			
02507		J2111	54						168	9			HAIBIA	02	HADBRO	01	1	TQ2	D1	25A			
02508		J2117	51		J2111	41			168	9			HAIBJA	01	HAIBJA	00	1	TT3	D3	27B			
02509		J2111	41						168	9			HAIBJA	02	HADBT0	01	1	TQ2	D3	22B			
02510		J2114	66		J2111	62			168	9			HAIBKA	01	HAIBKA	00	1	TQ2	E1	31A			
02511		J2111	62						168	9			HAIBKA	02	HADBWO	01	1	TQ2	E2	29A			
02512		J2114	60		J2111	53			168	9			HAICAA	01	HAICAA	00	1	TQ2	E2	28A			
02513		J2111	53						168	9			HAICAA	02	HADCA0	01	1	TQ2	E3	28B			
02514		J2114	57		J2111	59			168	9			HAICBA	01	HAICBA	00	1	TQ2	E3	30B			
02515		J2111	59						168	9			HAICBA	02	HADCBO	01	1	TQ2	E4	31B			
02516		J2114	75		J2111	71			168	9			HAICCA	01	HAICCA	00	1	TQ2	F1	37B			
02517		J2111	71		J2112	11			168	9			HAICCA	02	HADCD0	01	1	TQ2	F2	36A		801	
03250		J2112	11						168	9			HAICCA	03	HAICCOV	01	1	THI	A1	07A		801	
03620		J2112	13	SAE	J2140	40			168	9			HAICCOV	01	HAICCOV	00	1	THI	A1	06A		801	
03556	SAE	J2140	40						168	9			HAICCOV	02	HAL46A	01	2	TT3	C1	19A		801	
02518		J2114	72		J2111	65			168	9			HAICDA	01	HAICDA	00	1	TQ2	F2	34A			
02519		J2111	65						168	9			HAICDA	02	HADCE0	01	1	TQ2	F3	34B			
02520		J2115	08		J2114	15			168	9			HAICEA	01	HADCG0	01	1	TQ2	A1	06A			
									****	SIGNAL		(HAICEA)	IS ON THE NEXT PAGE				****						

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3M2S2

REV E INDEX HAICEA  
 DATE 09-01-82 PAGE 62

RECORD NUMBER	FROM			TO			WIRE				SPEC INST WIRE	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SH PG	MULTI GROUP	CODE	COLOR										IDENT	AND		
02521		J2114	15						168	9		HAICEA	02	HAICEA	00	1	TQ2	A4		07B			
01219		J2116	20		J2115	04			168	9		HAICFA	00	HAICFOV	01	1	TH1	B3		10A		B01	
02522		J2115	04		J2114	38			168	9		HAICFA	01	HADCHO	01	1	TQ2	A2		04A			
02523		J2114	38						168	9		HAICFA	02	HAICFA	00	1	TQ2	C1		18A			
02590		J2116	18	SAE	J2140	30			168	9		HAICFOV	01	HAICFOV	00	1	TH1	B3		09A		B01	
03546	SAE	J2140	30						168	9		HAICFOV	02	HAL50A	01	2	TT3	C2		15A		B01	
02524		J2117	15		J2115	03			168	9		HAICGA	01	HAICGA	00	1	TT3	A3		07B			
02525		J2115	03						168	9		HAICGA	02	HADCIO	01	1	TQ2	A3		02A			
02526		J2115	18		J2114	30			168	9		HAICHA	01	HADCLO	01	1	TQ2	B2		10A			
02527		J2114	30						168	9		HAICHA	02	HAICHA	00	1	TQ2	C2		15A			
02528		J2115	17		J2114	33			168	9		HAICIA	01	HADCNO	01	1	TQ2	B3		08B			
02529		J2114	33						168	9		HAICIA	02	HAICIA	00	1	TQ2	C3		16B			
02530		J2115	23		J2114	39			168	9		HAICJA	01	HADCNO	01	1	TQ2	B4		11B			
02531		J2114	39						168	9		HAICJA	02	HAICJA	00	1	TQ2	C4		19B			
02532		J2115	29		J2114	52			168	9		HAICKA	01	HADCRO	01	1	TQ2	C3		14B			
02533		J2114	52						168	9		HAICKA	02	HAICKA	00	1	TQ2	D1		24A			
02534		J2115	54		J2114	46			168	9		HAICLA	01	HADCYO	01	1	TQ2	D1		25A			
02535		J2114	46						168	9		HAICLA	02	HAICLA	00	1	TQ2	D2		21A			
02536		J2115	48		J2114	45			168	9		HAICMA	01	HADCUO	01	1	TQ2	D2		22A			
02537		J2114	45						168	9		HAICMA	02	HAICMA	00	1	TQ2	D3		24B			
02538		J2117	36		J2115	41			168	9		HAICNA	01	HAICNA	00	1	TT3	C1		17A			
02539		J2115	41						168	9		HAICNA	02	HADCVO	01	1	TQ2	D3		22B			
02540		J2115	62		J2114	51			168	9		HAICPA	01	HADCYO	01	1	TQ2	E2		29A			
02541		J2114	51						168	9		HAICPA	02	HAICPA	00	1	TQ2	D4		27B			
02542		J2115	53		J2114	69			168	9		HAICQA	01	HADCZO	01	1	TQ2	E3		28B			
02543		J2114	69						168	9		HAICQA	02	HAICQA	00	1	TQ2	F3		35A			
02544		J2115	59		J2114	80			168	9		HAICRA	01	HADDAO	01	1	TQ2	E4		31B			
02545		J2114	80						168	9		HAICRA	02	HAICRA	00	1	TQ2	F4		39A			
02546		J2108	03		J2106	04			168	9		HAI01AV	01	HAI01AV	00	1	TH1	A3		03A			
02547		J2106	04						168	9		HAI01AV	02	HADABO	01	1	TQ2	A2		04A			
02548		J2109	04		J2108	24			168	9		HAI02AV	01	HADADO	01	1	TQ2	A2		04A			
02549		J2108	24						168	9		HAI02AV	02	HAI02AV	00	1	TH1	B1		13A			
02550		J2109	17		J2108	40			168	9		HAI03AV	01	HADAIO	01	1	TQ2	B3		08B			
02551		J2108	40						168	9		HAI03AV	02	HAI03AV	00	1	TH1	C1		19A			



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3M2S2

REV E INDEX HAI03AV  
 DATE 09-01-82 PAGE 63

RECORD NUMBER	FROM			SH FTG	TO			MULTI GROUP	WIRE			SPEC INST MISC	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		CODE	COLOR	IDENT										AND	OR			
02552		J2108	63		J2106	54		16B	9			HAI04AV	01	HAI04AV	00	1	TH1	E2			30A				
02553		J2106	54					16B	9			HAI04AV	02	HADAJO	01	1	TQ2	D1			25A				
02554		J2109	27		J2106	41		16B	9			HAI05A	01	HAI05A	00	1	TQ2	B4			13B				
02555		J2106	41					16B	9			HAI05A	02	HADALO	01	1	TQ2	D3			22B				
03363		J2141	27		J2109	33		16B	9			HAI06A	00	HAI060V	01	1	TH1	B6			13B		B01		
03617		J2109	33		J2106	62		16B	9			HAI06A	01	HAI06A	00	1	TQ2	C3			16B		A02		
02557		J2106	62					16B	9			HAI06A	02	HADANO	01	1	TQ2	E2			29A		A02		
03656		J2141	26		SAE J2140	01		16B	9			HAI060V	00	HAI060V	00	1	TH1	B6			12B		B01		
03517	SAE	J2140	01					16B	9			HAI060V	02	HAL14A	01	1	TT3	A2			02B		B01		
02558		J2109	48		J2108	57		16B	9			HAI07AV	01	HADAQ0	01	1	TQ2	D2			22A				
02559		J2108	57					16B	9			HAI07AV	02	HAI07AV	00	1	TH1	E5			30B				
03610		J2106	14		J2109	68		16B	9			HAI08A	00	HAI08A	00	1	TQ2	B2			09A		A05		
02560		J2109	68		J2141	21		16B	9			HAI08A	01	HADARO	01	1	TQ2	E1			32A		B01		
03364		J2141	21					16B	9			HAI08A	02	HAI080V	01	1	TH1	B5			11B		B01		
03655		J2141	19		SAE J2140	11		16B	9			HAI080V	01	HAI080V	00	1	TH1	B5			10B		B01		
03527	SAE	J2140	11					16B	9			HAI080V	02	HAL17A	01	2	TT3	A3			05B		B01		
02562		J2108	78		J2106	77		16B	9			HAI09AV	01	HAI09AV	00	1	TH1	F5			36A				
02563		J2106	77					16B	9			HAI09AV	02	HADBA0	01	1	TQ2	F1			38B				
02564		J2108	77		J2106	71		16B	9			HAI10AV	01	HAI10AV	00	1	TH1	F6			38A				
02565		J2106	71					16B	9			HAI10AV	02	HADBB0	01	1	TQ2	F2			36A				
02566		J2109	77		J2106	80		16B	9			HAI11A	01	HADBB0	01	1	TQ2	F1			38B				
02567		J2106	80					16B	9			HAI11A	02	HAI11A	00	1	TQ2	F4			39A				
02568		J2112	19		J2111	04		16B	9			HAI12AV	01	HAI12AV	00	1	TH1	B5			10B				
02569		J2111	04					16B	9			HAI12AV	02	HADBF0	01	1	TQ2	A2			04A				
02570		J2112	26		J2111	11		16B	9			HAI13AV	01	HAI13AV	00	1	TH1	B6			12B				
02571		J2111	11					16B	9			HAI13AV	02	HADBH0	01	1	TQ2	A4			05B				
03611		J2106	21		J2111	24		16B	9			HAI14A	01	HAI14A	00	1	TQ2	B3			10B		A05		
02573		J2111	24		J2112	61		16B	9			HAI14A	02	HADBB0	01	1	TQ2	B1			13A		B01		
01195		J2112	61					16B	9			HAI14A	03	HAI140V	01	1	TH1	E2			31A		B01		
02582		J2112	63		SAE J2140	24		16B	9			HAI140V	01	HAI140V	00	1	TH1	E2			30A		B01		
03540	SAE	J2140	24					16B	9			HAI140V	02	HAL29A	01	2	TT3	B1			13A		B01		
02487		J2106	57		J2111	40		16B	9			HAI15A	01	HAI15A	00	1	TQ2	E3			30B		C02		
02575		J2111	40					16B	9			HAI15A	02	HADBN0	01	1	TQ2	C1			19A		C02		
												****	SIGNAL	(HAI16A)	IS ON THE			NEXT PAGE	****						

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAI16A  
 DATE 09-01-82 PAGE 64

RECORD NUMBER	FROM			CIRCUIT	TO			MULTI GROUP	WIRE			SPEC INST. NO.	SIGNAL	SEQ NO	EQUATION	TECH	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		CODE	COLOR	IDENT										AND	OR		
02576		J2114	63		J2111	35		168	9			HAI16A	01	HAI16A	00	1	TQ2	E4		33B				
02577		J2111	35					168	9			HAI16A	02	HADBQ0	01	1	TQ2	C4			17B			
02578		J2112	53		J2111	48		168	9			HAI17AV	01	HAI17AV	00	1	THI	D6			26B			
02579		J2111	48					168	9			HAI17AV	02	HADB50	01	1	TQ2	D2			22A			
02580		J2112	66		J2111	47		168	9			HAI18AV	01	HAI18AV	00	1	THI	E1			32A			
02581		J2111	47					168	9			HAI18AV	02	HADBU0	01	1	TQ2	D4			25B			
03612		J2106	22		J2111	68		168	9			HAI19A	01	HAI19A	00	1	TQ2	B1			12A		A05	
02583		J2111	68		J2112	38		168	9			HAI19A	02	HADBVO	01	1	TQ2	E1			32A		B01	
01171		J2112	38					168	9			HAI19A	03	HAI190V	01	1	THI	C1			20A		B01	
02572		J2112	40		SAE J2140	23		168	9			HAI190V	01	HAI190V	00	1	THI	C1			19A		B01	
03539	SAE	J2140	23					168	9			HAI190V	02	HAL41A	01	2	TT3	B3			11B		B01	
02584		J2112	60		J2111	77		168	9			HAI20AV	01	HAI20AV	00	1	THI	E3			28A			
02585		J2111	77					168	9			HAI20AV	02	HADCC0	01	1	TQ2	F1			38B			
02586		J2111	76		J2109	69		168	9			HAI21A	01	HADCF0	01	1	TQ2	F4			37A			
02587		J2109	69					168	9			HAI21A	02	HAI21A	00	1	TQ2	F3			35A			
02588		J2116	25		J2115	11		168	9			HAI22AV	01	HAI22AV	00	1	THI	B2			11A			
02589		J2115	11					168	9			HAI22AV	02	HADCJ0	01	1	TQ2	A4			05B			
03613		J2106	27		J2115	24		168	9			HAI23A	01	HAI23A	00	1	TQ2	B4			13B		A05	
02591		J2115	24		J2116	51		168	9			HAI23A	02	HADCK0	01	1	TQ2	B1			13A		B01	
01251		J2116	51					168	9			HAI23A	03	HAI230V	01	1	THI	D6			27B		B01	
02602		J2116	53		SAE J2140	35		168	9			HAI230V	01	HAI230V	00	1	THI	D6			26B		B01	
03551	SAE	J2140	35					168	9			HAI230V	02	HAL53A	01	2	TT3	C3			17B		B01	
02592		J2116	14		J2115	40		168	9			HAI24AV	01	HAI24AV	00	1	THI	B4			08B			
02593		J2115	40					168	9			HAI24AV	02	HADCPO	01	1	TQ2	C1			19A			
02594		J2116	19		J2115	34		168	9			HAI25AV	01	HAI25AV	00	1	THI	B5			10B			
02595		J2115	34					168	9			HAI25AV	02	HADCQ0	01	1	TQ2	C2			16A			
02596		J2115	35		J2109	38		168	9			HAI26A	01	HADCS0	01	1	TQ2	C4			17B			
02597		J2109	38					168	9			HAI26A	02	HAI26A	00	1	TQ2	C1			18A			
02598		J2116	46		J2115	47		168	9			HAI27AV	01	HAI27AV	00	1	THI	D4			22B			
02599		J2115	47					168	9			HAI27AV	02	HADCW0	01	1	TQ2	D4			25B			
02600		J2116	43		J2115	68		168	9			HAI28AV	01	HAI28AV	00	1	THI	D5			24B			
02601		J2115	68					168	9			HAI28AV	02	HADCX0	01	1	TQ2	E1			32A			
01147		J2108	65		J2106	39		168	9			HAI29A	00	HAI290V	01	1	THI	E6			33B		B01	
03614		J2106	39		J2115	77		168	9			HAI29A	01	HAI29A	00	1	TQ2	C4			19B		A05	
02603		J2115	77					168	9			HAI29A	02	HADB80	01	1	TQ2	F1			38B		A05	

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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 DATE 09-01-82 PAGE 65

RECORD NUMBER	FROM				TO				WIRE				SPL. INET. MISC.	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SPL. C	PREFIX	CONNECTOR	PIN	SPL. C	MULTI GROUP	CODE	COLOR	IDENT												
02561 03570	SAE	J2108 J2140	68 54		SAE	J2140	54			168 168	9 9			HAI290V HAI290V	01 02	HAI290V HAL69A	00 01	1 2	THI TT3	E6 D1		32B 25A	B01 B01	
02604 02605		J2116 J2115	66 71			J2115	71			168 168	9 9			HAI30AV HAI30AV	01 02	HAI30AV HADDC0	00 01	1 1	THI TQ2	E1 F2		32A 36A		
02609 02607		J2109 J2115	80 65			J2115	65			168 168	9 9			HAI31A HAI31A	01 02	HAI31A HADDD0	00 01	1 1	TQ2 TQ2	F4 F3		39A 34B	A05 A05	
02608 02606		J2115 J2116	76 63			J2116	63			168 168	9 9			HAI32AV HAI32AV	01 02	HADDE0 HAI32AV	01 00	1 1	TQ2 THI	F4 E2		37A 30A	A05 A05	
02611 02612		J2114 J2109	10 10			J2109 J2108	10 08			168 168	9 9			HALDCAV HALDCAV	02 03	HAI8BA HAI8AA	01 01	2 2	TQ2 TQ2	A1 A1		07A 07A		
02613 02615		J2108 J2109	08 43			J2109	43			168 168	9 9			HALDCAV HALDCAV	04 06	HALDCAV HAI8AA	00 01	1 2	THI TQ2	A2 D3		04A 23B	A05 A05	
02619 02621 02622 02623		J2108 J2114 J2114 J2114	60 50 25 13			J2114 J2114 J2114	50 25 13			168 168 168	9 9 9			HALDDAV HALDDAV HALDDAV HALDDAV	03 05 06 07	HALDDAV HAI8CLA HAI8BIA HAI8CEA	00 01 01 01	1 2 2 2	THI TQ2 TQ2 TQ2	E3 D2 B4 A4		28A 23A 12B 06B	A05	
02624 02625 02626		J2138 J2136 J2139	59 50 08			J2136 J2139	50 08			168 168 168	9 9 9			HAMGC0T HAMGC0T HAMGC0T	01 02 03	HA6CC0 HAECMOV HAMGC0T	01 01 00	1 1 1	TQ2 THI DBC	E4 D3 A1		31B 22A 04A		
02627 02628		J2139 J2138	10 61			J2138	61			168 168	9 9			HAMGC1T HAMGC1T	01 02	HAMGC1T HA6CC0	00 01	1 2	DBC TQ2	A2 E4		05A 32B		
02629 02630		J2139 J2136	14 41			J2136	41			168 168	9 9			HAMGC2T HAMGC2T	01 02	HAMGC2T HA5CC0V	00 01	1 1	DBC THI	A3 D4		06A 23B		
02631 02632		J2141 J2139	38 13			J2139 J2135	13 34			168 168	9 9			HAMGC3T HAMGC3T	01 02	HAI8CC0V HAMGC3T	01 00	1 1	THI DBC	C1 A4		20A 07A		
02633 02634 02635 02636 02637 02638 02639		J2135 J2135 J2134 J2134 J2134 J2131 J2117 J2117	34 40 68 79 79 54 26 25			J2135 J2134 J2134 J2131 J2117 J2117	40 68 79 54 26 25			168 168 168 168 168 168 168	9 9 9 9 9 9 9			HAMGC3T HAMGC3T HAMGC3T HAMGC3T HAMGC3T HAMGC3T HAMGC3T	03 04 05 06 07 08 09	HAGAX0 HAGAW0 HAGAP0 HAGAT0 HAGAF0 HAGAE0 HAGAN0	01 01 01 01 01 01 01	3 3 1 2 1 3 3	TD4 TD4 TQ2 TQ2 TQ2 TT3 TT3	C2 C1 E1 F1 D1 B1 B3		16A 19A 32A 39B 25A 14A 12B		
02640 02641		J2139 J2136	05 49			J2136	49			168 168	9 9			HAMXXAV HAMXXAV	01 02	HAMGC3T HAMXXAV	01 00	1 1	DBC THI	A4 D2		03B 23A		
02642 02643		J2107 J2103	06 01			J2103	01			168 168	9 9			HAP01D HAP01D	01 02	HAP01D HADM1Z	00 01	1 1	TLD EXT	A1		05A	1(7A)	
												****	SIGNAL	HAP02D	IS ON THE	NEXT PAGE	****							

DRAWING NUMBER WL10281451

STRING

UNIT ASSEMBLY NO. 10281451

REV E

INDEX HAP02D

UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

FILE IDENT

TSQ3MTS2

DATE 09-01-82 PAGE 66

RECORD NUMBER	FROM			SIN	TO			SIN	WIRE			SIN	SIGNAL	SEQ NO	EQUATION		TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		MULTI GROUP	CODE	COLOR				IDENT	01								
02644		J2107	01		J2103	03			168	9			HAP02D	01	HAP02D	00	1	TLD	A2		02B	2(6A)		
02645		J2103	03						168	9			HAP02D	02	HADM1Z	01	2	EXT						
02646		J2107	09		J2103	04			168	9			HAP03D	01	HAP03D	00	1	TLD	A3		04B	3(5A)		
02647		J2103	04						168	9			HAP03D	02	HADM1Z	01	3	EXT						
02648		J2107	15		J2103	05			168	9			HAP04D	01	HAP04D	00	1	TLD	A4		07B	4(4A)		
02649		J2103	05						168	9			HAP04D	02	HADM1Z	01	4	EXT						
02650		J2107	22		J2103	06			168	9			HAP05D	01	HAP05D	00	1	TLD	B1		12A	5(3B)		
02651		J2103	06						168	9			HAP05D	02	HADM1Z	01	5	EXT						
02652		J2107	14		J2103	07			168	9			HAP06D	01	HAP06D	00	1	TLD	B2		09A	6(2B)		
02653		J2103	07						168	9			HAP06D	02	HADM1Z	01	6	EXT						
02654		J2107	21		J2103	08			168	9			HAP07D	01	HAP07D	00	1	TLD	B3		10B	7(2A)		
02655		J2103	08						168	9			HAP07D	02	HADM1Z	01	7	EXT						
02656		J2107	27		J2103	09			168	9			HAP08D	01	HAP08D	00	1	TLD	B4		13B	8(3A)		
02657		J2103	09						168	9			HAP08D	02	HADM1Z	01	8	EXT						
02658		J2107	38		J2103	10			168	9			HAP09D	01	HAP09D	00	1	TLD	C1		18A	9(4B)		
02659		J2103	10						168	9			HAP09D	02	HADM1Z	02	1	EXT						
02660		J2107	30		J2103	11			168	9			HAP10D	01	HAP10D	00	1	TLD	C2		15A	10(5B)		
02661		J2103	11						168	9			HAP10D	02	HADM1Z	02	2	EXT						
02662		J2107	33		J2103	13			168	9			HAP11D	01	HAP11D	00	1	TLD	C3		16B	11(6B)		
02663		J2103	13						168	9			HAP11D	02	HADM1Z	02	3	EXT						
02664		J2107	39		J2103	14			168	9			HAP12D	01	HAP12D	00	1	TLD	C4		19B	12(7B)		
02665		J2103	14						168	9			HAP12D	02	HADM1Z	02	4	EXT						
02666		J2107	52		J2103	15			168	9			HAP13D	01	HAP13D	00	1	TLD	D1		24A	13(14A)		
02667		J2103	15						168	9			HAP13D	02	HADM1Z	02	5	EXT						
02668		J2107	46		J2103	17			168	9			HAP14D	01	HAP14D	00	1	TLD	D2		21A	14(13A)		
02669		J2103	17						168	9			HAP14D	02	HADM1Z	02	6	EXT						
02670		J2107	45		J2103	18			168	9			HAP15D	01	HAP15D	00	1	TLD	D3		24B	15(12A)		
02671		J2103	18						168	9			HAP15D	02	HADM1Z	02	7	EXT						
02672		J2107	51		J2103	19			168	9			HAP16D	01	HAP16D	00	1	TLD	D4		27B	16(11A)		
02673		J2103	19						168	9			HAP16D	02	HADM1Z	02	8	EXT						
02674		J2107	66		J2103	20			168	9			HAP17D	01	HAP17D	00	1	TLD	E1		31A	17(10A)		
02675		J2103	20						168	9			HAP17D	02	HADM1Z	03	1	EXT						
02676		J2107	60		J2103	21			168	9			HAP18D	01	HAP18D	00	1	TLD	E2		28A	18(9A)		
02677		J2103	21						168	9			HAP18D	02	HADM1Z	03	2	EXT						

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HAP18D  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 67

RECORD NUMBER	FROM			TO			WIRE				SFC INST MISC	SIGNAL	SEQ NO	EQUATION	TERM	FACTORY	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	PC	MULTI GROUP	CODE	COLOR												
02678 02679	J2107 J2103	57 22		J2103	22			168 168	9 9			HAP19D HAP19D	01 02	HAP19D HADM1Z	00 03	1 3	TLD EXT	E3		30B	19(88)	
02680 02681	J2107 J2103	63 23		J2103	23			168 168	9 9			HAP20D HAP20D	01 02	HAP20D HADM1Z	00 03	1 4	TLD EXT	E4		33B	20(98)	
02682 02683	J2107 J2103	75 24		J2103	24			168 168	9 9			HAP21D HAP21D	01 02	HAP21D HADM1Z	00 03	1 5	TLD EXT	F1		37B	21(108)	
02684 02685	J2107 J2103	72 25		J2103	25			168 168	9 9			HAP22D HAP22D	01 02	HAP22D HADM1Z	00 03	1 6	TLD EXT	F2		34A	22(118)	
02686 02687	J2107 J2103	69 26		J2103	26			168 168	9 9			HAP23D HAP23D	01 02	HAP23D HADM1Z	00 03	1 7	TLD EXT	F3		35A	23(128)	
02688 02689	J2107 J2103	80 27		J2103	27			168 168	9 9			HAP24D HAP24D	01 02	HAP24D HADM1Z	00 03	1 8	TLD EXT	F4		39A		
02690 02691	J2110 J2103	06 29		J2103	29			168 168	9 9			HAP25D HAP25D	01 02	HAP25D HADM1Z	00 04	1 1	TLD EXT	A1		05A	25(20A)	
02692 02693	J2110 J2103	01 30		J2103	30			168 168	9 9			HAP26D HAP26D	01 02	HAP26D HADM1Z	00 04	1 2	TLD EXT	A2		02B	26(19A)	
02694 02695	J2110 J2103	09 31		J2103	31			168 168	9 9			HAP27D HAP27D	01 02	HAP27D HADM1Z	00 04	1 3	TLD EXT	A3		04B	27(18A)	
02696 02697	J2110 J2103	15 33		J2103	33			168 168	9 9			HAP28D HAP28D	01 02	HAP28D HADM1Z	00 04	1 4	TLD EXT	A4		07B	28(17A)	
02698 02699	J2110 J2103	22 34		J2103	34			168 168	9 9			HAP29D HAP29D	01 02	HAP29D HADM1Z	00 04	1 5	TLD EXT	B1		12A	29(16A)	
02700 02701	J2110 J2103	14 35		J2103	35			168 168	9 9			HAP30D HAP30D	01 02	HAP30D HADM1Z	00 04	1 6	TLD EXT	B2		09A	30(15A)	
02702 02703	J2110 J2103	21 36		J2103	36			168 168	9 9			HAP31D HAP31D	01 02	HAP31D HADM1Z	00 04	1 7	TLD EXT	B3		10B	31(14B)	
02704 02705	J2110 J2103	27 37		J2103	37			168 168	9 9			HAP32D HAP32D	01 02	HAP32D HADM1Z	00 04	1 8	TLD EXT	B4		13B	32(15B)	
02706 02707	J2110 J2103	38 38		J2103	38			168 168	9 9			HAP33D HAP33D	01 02	HAP33D HADM1Z	00 05	1 1	TLD EXT	C1		18A	33(16B)	
02708 02709	J2110 J2103	30 39		J2103	39			168 168	9 9			HAP34D HAP34D	01 02	HAP34D HADM1Z	00 05	1 2	TLD EXT	C2		15A	34(17B)	
								****				SIGNAL (HAP35D									IS ON THE	
																					NEXT PAGE	****

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAP35D  
 DATE 09-01-82 PAGE 68

RECORD NUMBER	FROM				TO				WIRE				SFC INST MISC	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	IN 10	MULTI GROUP	CODE	COLOR										IDENT	AND			OR
02710		J2110	33		J2103	40					168	9		HAP35D	01	HAP35D	00	1	TLD	C3		16B		35(18B)		
02711		J2103	40								168	9		HAP35D	02	HADM1Z	05	3	EXT							
02712		J2110	39		J2103	41					168	9		HAP36D	01	HAP36D	00	1	TLD	C4		19B		36(19B)		
02713		J2103	41								168	9		HAP36D	02	HADM1Z	05	4	EXT							
02714		J2110	52		J2103	42					168	9		HAP37D	01	HAP37D	00	1	TLD	D1		24A		37(26A)		
02715		J2103	42								168	9		HAP37D	02	HADM1Z	05	5	EXT							
02716		J2110	46		J2103	43					168	9		HAP38D	01	HAP38D	00	1	TLD	D2		21A		38(25A)		
02717		J2103	43								168	9		HAP38D	02	HADM1Z	05	6	EXT							
02718		J2110	45		J2103	45					168	9		HAP39D	01	HAP39D	00	1	TLD	D3		24B		3924A		
02719		J2103	45								168	9		HAP39D	02	HADM1Z	05	7	EXT							
02720		J2110	51		J2103	46					168	9		HAP40D	01	HAP40D	00	1	TLD	D4		27B		40(23A)		
02721		J2103	46								168	9		HAP40D	02	HADM1Z	05	8	EXT							
02722		J2110	66		J2103	47					168	9		HAP41D	01	HAP41D	00	1	TLD	E1		31A		41(22A)		
02723		J2103	47								168	9		HAP41D	02	HADM1Z	06	1	EXT							
02724		J2110	60		J2103	48					168	9		HAP42D	01	HAP42D	00	1	TLD	E2		28A		42(21A)		
02725		J2103	48								168	9		HAP42D	02	HADM1Z	06	2	EXT							
02726		J2110	57		J2103	49					168	9		HAP43D	01	HAP43D	00	1	TLD	E3		30B		43(22B)		
02727		J2103	49								168	9		HAP43D	02	HADM1Z	06	3	EXT							
02728		J2110	63		J2103	50					168	9		HAP44D	01	HAP44D	00	1	TLD	E4		33B		44(23B)		
02729		J2103	50								168	9		HAP44D	02	HADM1Z	06	4	EXT							
02730		J2110	75		J2103	51					168	9		HAP45D	01	HAP45D	00	1	TLD	F1		37B		45(22B)		
02731		J2103	51								168	9		HAP45D	02	HADM1Z	06	5	EXT							
02732		J2110	72		J2103	52					168	9		HAP46D	01	HAP46D	00	1	TLD	F2		34A		46(25B)		
02733		J2103	52								168	9		HAP46D	02	HADM1Z	06	6	EXT							
02734		J2110	69		J2103	53					168	9		HAP47D	01	HAP47D	00	1	TLD	F3		35A		47(26B)		
02735		J2103	53								168	9		HAP47D	02	HADM1Z	06	7	EXT							
02736		J2110	80		J2103	54					168	9		HAP48D	01	HAP48D	00	1	TLD	F4		39A		48(27B)		
02737		J2103	54								168	9		HAP48D	02	HADM1Z	06	8	EXT							
02738		J2113	06		J2103	55					168	9		HAP49D	01	HAP49D	00	1	TLD	A1		05A		49(33A)		
02739		J2103	55								168	9		HAP49D	02	HADM1Z	07	1	EXT							
02740		J2113	01		J2103	56					168	9		HAP50D	01	HAP50D	00	1	TLD	A2		02B		50(32A)		
02741		J2103	56								168	9		HAP50D	02	HADM1Z	07	2	EXT							
02742		J2113	09		J2103	57					168	9		HAP51D	01	HAP51D	00	1	TLD	A3		04B		51(31A)		
02743		J2103	57								168	9		HAP51D	02	HADM1Z	07	3	EXT							

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
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RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CXT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	SN TO	PREFIX	CONNECTOR	PIN	SN TO	MULTI GROUP	CODE	COLOR	IDENT												SPEC INST
02744	J2113	15			J2103	59			168	9			HAP52D	01	HAP52D	00	1	TLD	A4		07B	52(30A)		
02745	J2103	59							168	9			HAP52D	02	HADM1Z	07	4	EXT						
02746	J2113	22			J2103	60			168	9			HAP53D	01	HAP53D	00	1	TLD	B1		12A	53(29A)		
02747	J2103	60							168	9			HAP53D	02	HADM1Z	07	5	EXT						
02748	J2113	14			J2103	61			168	9			HAP54D	01	HAP54D	00	1	TLD	B2		09A	54(28A)		
02749	J2103	61							168	9			HAP54D	02	HADM1Z	07	6	EXT						
02750	J2113	21			J2103	62			168	9			HAP55D	01	HAP55D	00	1	TLD	B3		10B	55(28B)		
02751	J2103	62							168	9			HAP55D	02	HADM1Z	07	7	EXT						
02752	J2113	27			J2103	63			168	9			HAP56D	01	HAP56D	00	1	TLD	B4		13B	56(29B)		
02753	J2103	63							168	9			HAP56D	02	HADM1Z	07	8	EXT						
02754	J2113	38			J2103	64			168	9			HAP57D	01	HAP57D	00	1	TLD	C1		18A	57(30B)		
02755	J2103	64							168	9			HAP57D	02	HADM1Z	08	1	EXT						
02756	J2113	30			J2103	65			168	9			HAP58D	01	HAP58D	00	1	TLD	C2		15A	58(31B)		
02757	J2103	65							168	9			HAP58D	02	HADM1Z	08	2	EXT						
02758	J2113	33			J2103	66			168	9			HAP59D	01	HAP59D	00	1	TLD	C3		16B	59(32B)		
02759	J2103	66							168	9			HAP59D	02	HADM1Z	08	3	EXT						
02760	J2113	39			J2103	68			168	9			HAP60D	01	HAP60D	00	1	TLD	C4		19B	60(33B)		
02761	J2103	68							168	9			HAP60D	02	HADM1Z	08	4	EXT						
02762	J2113	52			J2103	69			168	9			HAP61D	01	HAP61D	00	1	TLD	D1		24A	61(39B)		
02763	J2103	69							168	9			HAP61D	02	HADM1Z	08	5	EXT						
02764	J2113	46			J2103	70			168	9			HAP62D	01	HAP62D	00	1	TLD	D2		21A	62(38B)		
02765	J2103	70							168	9			HAP62D	02	HADM1Z	08	6	EXT						
02766	J2113	45			J2103	71			168	9			HAP63D	01	HAP63D	00	1	TLD	D3		24B	63(37B)		
02767	J2103	71							168	9			HAP63D	02	HADM1Z	08	7	EXT						
02768	J2113	51			J2103	72			168	9			HAP64D	01	HAP64D	00	1	TLD	D4		27B	64(36B)		
02769	J2103	72							168	9			HAP64D	02	HADM1Z	08	8	EXT						
02770	J2113	66			J2103	73			168	9			HAP65D	01	HAP65D	00	1	TLD	E1		31A	65(36A)		
02771	J2103	73							168	9			HAP65D	02	HADM1Z	09	1	EXT						
02772	J2113	60			J2103	74			168	9			HAP66D	01	HAP66D	00	1	TLD	E2		28A	66(34A)		
02773	J2103	74							168	9			HAP66D	02	HADM1Z	09	2	EXT						
02774	J2113	57			J2103	75			168	9			HAP67D	01	HAP67D	00	1	TLD	E3		30B	67(34B)		
02775	J2103	75							168	9			HAP67D	02	HADM1Z	09	3	EXT						
									****	SIGNAL			HAP68D		IS ON THE			NEXT PAGE	****					





DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
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RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT											
02810		J2146	62		J2145	50		168	9				HATABOV	01	HAT051E	01	2	TS4	E2		30A	A04	
02811		J2145	50		J2147	36		168	9				HATABOV	02	HAT041E	01	2	TS4	D2		23A	A04	
02812		J2147	36		J2146	22		168	9				HATABOV	04	HAT031E	01	2	TS4	C2		17A	A04	
02813		J2146	22		J2147	08		168	9				HATABOV	05	HAT021E	01	2	TS4	B2		11A	A02	
02814		J2147	08		J2141	08		168	9				HATABOV	06	HAT011E	01	2	TS4	A2		04A	A02	
02822		J2141	08					168	9				HATABOV	07	HATABOV	00	1	THI	A2		04A		
02823		J2147	62		J2145	62		168	9				HATACOV	01	HAT151E	01	2	TS4	E2		30A	A01	
02824		J2145	62		J2147	50		168	9				HATACOV	02	HAT141E	01	2	TS4	E2		30A		
02825		J2147	50		J2145	36		168	9				HATACOV	03	HAT131E	01	2	TS4	D2		23A		
02826		J2145	36		J2147	22		168	9				HATACOV	04	HAT121E	01	2	TS4	C2		17A		
02827		J2147	22		J2145	08		168	9				HATACOV	05	HAT111E	01	2	TS4	B2		11A		
02828		J2145	08		J2141	03		168	9				HATACOV	06	HAT101E	01	2	TS4	A2		04A		
02829		J2141	03					168	9				HATACOV	07	HATACOV	00	1	THI	A3		03A		
02830		J2147	66		J2145	66		168	9				HATADOV	01	HAT152E	01	2	TS4	E3		32A		
02831		J2145	66		J2147	54		168	9				HATADOV	02	HAT142E	01	2	TS4	E3		32A		
02832		J2147	54		J2145	40		168	9				HATADOV	03	HAT132E	01	2	TS4	D3		25A		
02833		J2145	40		J2147	26		168	9				HATADOV	04	HAT122E	01	2	TS4	C3		19A		
02834		J2147	26		J2145	14		168	9				HATADOV	05	HAT112E	01	2	TS4	B3		13A		
02835		J2145	14		J2141	01		168	9				HATADOV	06	HAT102E	01	2	TS4	A3		06A		
02836		J2141	01					168	9				HATADOV	07	HATADOV	00	1	THI	A4		02B		
02837		J2147	63		J2145	63		168	9				HATAEOV	01	HAT153E	01	2	TS4	E4		32B		
02838		J2145	63		J2147	49		168	9				HATAEOV	02	HAT143E	01	2	TS4	E4		32B		
02839		J2147	49		J2145	37		168	9				HATAEOV	03	HAT133E	01	2	TS4	D4		26B		
02840		J2145	37		J2147	23		168	9				HATAEOV	04	HAT123E	01	2	TS4	C4		18B		
02841		J2147	23		J2145	09		168	9				HATAEOV	05	HAT113E	01	2	TS4	B4		12B		
02842		J2145	09		J2141	07		168	9				HATAEOV	06	HAT103E	01	2	TS4	A4		06B		
02843		J2141	07					168	9				HATAEOV	07	HATAEOV	00	1	THI	A5		04B		
02844		J2147	77		J2146	63		168	9				HATAFOV	01	HAT063E	01	2	TS4	F4		38B		
02845		J2146	63		J2145	49		168	9				HATAFOV	02	HAT053E	01	2	TS4	E4		32B		
02846		J2145	49		J2147	37		168	9				HATAFOV	03	HAT043E	01	2	TS4	D4		26B		
02847		J2147	37		J2146	23		168	9				HATAFOV	04	HAT033E	01	2	TS4	C4		18B		
02848		J2146	23		J2147	09		168	9				HATAFOV	05	HAT023E	01	2	TS4	B4		12B		
02849		J2147	09		J2141	10		168	9				HATAFOV	06	HAT013E	01	2	TS4	A4		06B		
02850		J2141	10					168	9				HATAFOV	07	HATAFOV	00	1	THI	A6		06B		
02851		J2146	78		J2145	78		168	9				HATAGOV	01	HAT182E	01	2	TS4	F3		38A		
02852		J2145	78		J2146	54		168	9				HATAGOV	02	HAT172E	01	2	TS4	F3		38A		
02853		J2146	54		J2146	40		168	9				HATAGOV	03	HAT162E	01	2	TS4	D3		25A		
02854		J2146	40		J2145	26		168	9				HATAGOV	04	HAT092E	01	2	TS4	C3		19A		
02855		J2145	26		J2146	14		168	9				HATAGOV	05	HAT082E	01	2	TS4	B3		13A		
02856		J2146	14		J2141	24		168	9				HATAGOV	06	HAT072E	01	2	TS4	A3		06A		
02857		J2141	24					168	9				HATAGOV	07	HATAGOV	00	1	THI	B1		13A		
02858		J2146	77		J2145	77		168	9				HATAHOV	01	HAT183E	01	2	TS4	F4		38B		
02859		J2145	77		J2146	49		168	9				HATAHOV	02	HAT173E	01	2	TS4	F4		38B		
02860		J2146	49		J2146	37		168	9				HATAHOV	03	HAT163E	01	2	TS4	D4		26B		

\*\*\*\* SIGNAL (HATAHOV) IS ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HATAHOV  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 72

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TYP	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT												WIRE
02861		J2146	37		J2146	09			168	9			HATAHOV	04	HAT093E	01	2	TS4	C4		18B			
02862		J2146	09		J2145	23			168	9			HATAHOV	05	HAT073E	01	2	TS4	A4		06B			
02863		J2145	23		J2141	25			168	9			HATAHOV	06	HAT083E	01	2	TS4	B4		12B			
02864		J2141	25						168	9			HATAHOV	07	HATAHOV	00	1	THI	B2		11A			
02865		J2146	74		J2145	74			168	9			HATAJOV	01	HAT181E	01	2	TS4	F2		36A			
02866		J2145	74		J2146	50			168	9			HATAJOV	02	HAT171E	01	2	TS4	F2		36A			
02867		J2146	50		J2146	36			168	9			HATAJOV	03	HAT161E	01	2	TS4	D2		23A			
02868		J2146	36		J2145	22			168	9			HATAJOV	04	HAT091E	01	2	TS4	C2		17A			
02869		J2145	22		J2146	08			168	9			HATAJOV	05	HAT081E	01	2	TS4	B2		11A			
02870		J2146	08		J2141	18			168	9			HATAJOV	06	HAT071E	01	2	TS4	A2		04A		C01	
02872		J2141	18						168	9			HATAJOV	08	HATAJOV	00	1	THI	B3		09A			
02875		J2147	10		J2146	19			168	9			HAT013E	01	HAT013E	00	1	TS4	A4		05A			
02876		J2146	19						168	9			HAT013E	02	HAT020E	01	2	TS4	B1		10B			
02877		J2146	24		J2147	33			168	9			HAT023E	01	HAT023E	00	1	TS4	B4		12A			
02878		J2147	33						168	9			HAT023E	02	HAT030E	01	2	TS4	C1		16B			
02879		J2147	38		J2145	45			168	9			HAT033E	01	HAT033E	00	1	TS4	C4		18A			
02880		J2145	45						168	9			HAT033E	02	HAT040E	01	2	TS4	D1		24B			
02881		J2145	52		J2146	59			168	9			HAT043E	01	HAT043E	00	1	TS4	D4		24A			
02882		J2146	59						168	9			HAT043E	02	HAT050E	01	2	TS4	E1		30B			
02883		J2146	64		J2147	73			168	9			HAT053E	01	HAT053E	00	1	TS4	E4		31A			
02884		J2147	73						168	9			HAT053E	02	HAT060E	01	2	TS4	F1		36B			
02885		J2147	76		J2146	05			168	9			HAT063E	01	HAT063E	00	1	TS4	F4		37A			
02886		J2146	05						168	9			HAT063E	02	HAT070E	01	2	TS4	A1		04B			
02887		J2146	10		J2145	19			168	9			HAT073E	01	HAT073E	00	1	TS4	A4		05A			
02888		J2145	19						168	9			HAT073E	02	HAT080E	01	2	TS4	B1		10B			
02889		J2145	24		J2146	33			168	9			HAT083E	01	HAT083E	00	1	TS4	B4		12A			
02890		J2146	33						168	9			HAT083E	02	HAT090E	01	2	TS4	C1		16B		A01	
02891		J2146	38		J2145	05			168	9			HAT093E	01	HAT093E	00	1	TS4	C4		18A			
02892		J2145	05						168	9			HAT093E	02	HAT100E	01	2	TS4	A1		04B			
02893		J2147	19		J2145	10			168	9			HAT103E	01	HAT110E	01	2	TS4	B1		10B			
02894		J2145	10						168	9			HAT103E	02	HAT103E	00	1	TS4	A4		05A			
02895		J2145	33		J2147	24			168	9			HAT113E	01	HAT120E	01	2	TS4	C1		16B			
02896		J2147	24						168	9			HAT113E	02	HAT113E	00	1	TS4	B4		12A			
02897		J2147	45		J2145	38			168	9			HAT123E	01	HAT130E	01	2	TS4	D1		24B			
02898		J2145	38						168	9			HAT123E	02	HAT123E	00	1	TS4	C4		18A			
02899		J2145	59		J2147	52			168	9			HAT133E	01	HAT140E	01	2	TS4	E1		30B			
									****				SIGNAL	(HAT133E										

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HAT133E  
 DATE 09-01-82 PAGE 73  
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RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	GROUP	CODE	COLOR	IDENT											
02900		J2147	52						16B	9		HAT133E	02	HAT133E	00	1	TS4	D4	24A		
02901		J2147	59		J2145	64			16B	9		HAT143E	01	HAT150E	01	2	TS4	E1	30B		
02902		J2145	64						16B	9		HAT143E	02	HAT143E	00	1	TS4	E4	31A		
02903		J2146	45		J2147	64			16B	9		HAT153E	01	HAT160E	01	2	TS4	D1	24B		
02904		J2147	64						16B	9		HAT153E	02	HAT153E	00	1	TS4	E4	31A		
02905		J2146	52		J2145	73			16B	9		HAT163E	01	HAT163E	00	1	TS4	D4	24A		
02906		J2145	73						16B	9		HAT163E	02	HAT170E	01	2	TS4	F1	36B		
02907		J2145	76		J2146	73			16B	9		HAT173E	01	HAT173E	00	1	TS4	F4	37A		
02908		J2146	73						16B	9		HAT173E	02	HAT180E	01	2	TS4	F1	36B		
02909		J2146	76		J2101	22			16B	9		HAT183E	01	HAT183E	00	1	TS4	F4	37A		
02874		J2101	22						16B	9		HAT183E	02				FTH				C01 C01
03333		J2135	08		J2138	68			16B	9		HAICCAV	00	HAGASO	01	2	TD4	A1	06A		A05
02911		J2138	68		J2138	55			16B	9		HAICCAV	01	HAGAKO	01	1	TQ2	E1	32A		
02912		J2138	55		J2136	43			16B	9		HAICCAV	02	HAGAYO	01	2	TQ2	E3	29B		
02913		J2136	43		J2131	49			16B	9		HAICCAV	03	HAICCAV	00	1	THI	D5	24B		
02914		J2131	49		J2117	18			16B	9		HAICCAV	04	HAGAGO	01	2	TQ2	D4	26B		
02915		J2117	18						16B	9		HAICCAV	05	HAGAJO	01	3	TT3	B2	10A		
02916		J2143	53		J2141	40			16B	9		HAICCOV	01	HAEBCA	01	1	TQ2	E3	28B		
02917		J2141	40		J2136	45			16B	9		HAICCOV	02	HAICCOV	00	1	THI	C1	19A		
02918		J2136	45						16B	9		HAICCOV	03	HAICCAV	01	1	THI	D5	25B		A06
02920		J2117	65		J2134	73			16B	9		HA5CCOV	01	HAE5CA	01	1	TT3	F2	34B		
02921		J2134	73		J2134	64			16B	9		HA5CCOV	02	HAGAUJA	01	2	TQ2	F2	36B		
02922		J2134	64		J2138	64			16B	9		HA5CCOV	03	HAGALA	01	2	TQ2	E2	30A		
02923		J2138	64		J2136	46			16B	9		HA5CCOV	04	HAGARA	01	2	TQ2	E2	30A		
02924		J2136	46		J2131	50			16B	9		HA5CCOV	05	HA5CCOV	00	1	THI	D4	22B		5 IC CARD
02925		J2131	50		J2134	05			16B	9		HA5CCOV	06	HAGACA	01	2	TQ2	D2	23A		
02926		J2134	05						16B	9		HA5CCOV	07	HAGAHA	01	2	TQ2	A2	03B		
02927		J2143	61		J2138	63			16B	9		HA6CCO	01	HAGAQA	01	2	TQ2	E4	32B		
02928		J2138	63		J2134	74			16B	9		HA6CCO	02	HA6CCO	00	1	TQ2	E4	33B		
02929		J2134	74		J2134	55			16B	9		HA6CCO	03	HAGAVA	01	2	TQ2	F3	35B		ANY 6 IC CARD
02930		J2134	55		J2131	43			16B	9		HA6CCO	04	HAGAMA	01	2	TQ2	E3	29B		
02931		J2131	43		J2134	07			16B	9		HA6CCO	05	HAGADA	01	2	TQ2	D3	23B		
02932		J2134	07						16B	9		HA6CCO	06	HAGATA	01	2	TQ2	A3	03A		
02933		J2117	56		J2101	31			16B	9		HBBP1A	01	HAIAGA	01	3	TT3	D1	26A		
02934		J2101	31						16B	9		HBBP1A	02				FTH				
02935		J2135	56		J2101	33			16B	9		HBBP2A	01	HAIATA	01	4	TD4	D1	26A		
02936		J2101	33						16B	9		HBBP2A	02				FTH				
02937		J2117	48		J2101	34			16B	9		HBBP3A	01	HAIATA	01	3	TT3	D2	22A		
											****	SIGNAL	(HBBP3A)	IS ON THE	NEXT PAGE	****					

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HBBP3A  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 74

RECORD NUMBER	FROM			TO			WIRE			SPEC. VALUE	SIGNAL	SEQ NO	EQUATION	TYPE	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SH TO	MULTI GROUP	CODE												
02938		J2101	34						168	9		HBBP3A	02			FTH					
02939		J2141	05		J2141	11			168	9		HBCGDAV	01	HATAOV	01	1	THI	A4		03B	
02940		J2141	11		J2141	22			168	9		HBCGDAV	02	HATAOV	01	1	THI	A1		07A	
02941		J2141	22		J2101	39			168	9		HBCGDAV	03	HATAGOV	01	1	THI	B1		14A	
02942		J2101	39						168	9		HBCGDAV	04				FTH				
02943		J2141	04		J2141	06			168	9		HBCGEAV	01	HATACOV	01	1	THI	A3		02A	
02944		J2141	06		J2141	20			168	9		HBCGEAV	02	HATABOV	01	1	THI	A2		05A	
02945		J2141	20		J2101	40			168	9		HBCGEAV	03	HATAJOV	01	1	THI	B3		10A	
02946		J2101	40						168	9		HBCGEAV	04				FTH				
02947		J2141	09		J2141	15			168	9		HBCGFVAV	01	HATAEOV	01	1	THI	A5		05B	
02948		J2141	15		J2141	23			168	9		HBCGFVAV	02	HATAFOV	01	1	THI	A6		07B	
02949		J2141	23		J2101	41			168	9		HBCGFVAV	03	HATAHOV	01	1	THI	B2		12A	
02950		J2101	41						168	9		HBCGFVAV	04				FTH				
02951		J2142	13		J2128	11			168	9		HBCI081	01	HACMC1V1	01	1	RO5	A1			
02952		J2128	11		J2101	01			168	9		HBCI081	02	HAAAOV	01	1	THI	A1		07A	
02953		J2101	01						168	9		HBCI081	03				FTH				
02954		J2142	17		J2128	06			168	9		HBCI181	01	HACMC2V1	01	1	RO5	A2			
02955		J2128	06		J2101	03			168	9		HBCI181	02	HAAH1AV	01	1	THI	A2		05A	
02956		J2101	03						168	9		HBCI181	03				FTH				
02957		J2142	19		J2128	04			168	9		HBCI281	01	HACMC3V1	01	1	RO5	A3			
02958		J2128	04		J2101	04			168	9		HBCI281	02	HAAH2AV	01	1	THI	A3		02A	
02959		J2101	04						168	9		HBCI281	03				FTH				
02960		J2142	25		J2128	05			168	9		HBCI381	01	HACMC4V1	01	1	RO5	A4			
02961		J2128	05		J2101	05			168	9		HBCI381	02	HAAH3AV	01	1	THI	A4		03B	
02962		J2101	05						168	9		HBCI381	03				FTH				
02964		J2142	27		J2128	09			168	9		HBCI481	02	HACMC5V1	01	1	RO5	A5			
02965		J2128	09		J2101	06			168	9		HBCI481	03	HAAH4AV	01	1	THI	A5		05B	
02966		J2101	06						168	9		HBCI481	04				FTH				
02963		J2142	31		J2128	15			168	9		HBCI581	01	HACMC6V1	01	1	RO5	A6			
02967		J2128	15		J2101	07			168	9		HBCI581	01A	HAAH5AV	01	1	THI	A6		07B	
02968		J2101	07						168	9		HBCI581	02				FTH				
02919		J2101	20		J2106	53			168	9		H8CK8A	01				FTH				A06
01151		J2106	53						168	9		H8CK8A	02	HAI15A	01	1	TQ2	E3		28B	
03460		J2101	50		J2117	34			168	9		HBCPAA	01				FTH				A05
03289		J2117	34		J2135	19			168	9		HBCPAA	02	HAI1AEA	01	3	TT3	C2		16A	
03283		J2135	19						168	9		HBCPAA	03	HAI1AKA	01	3	TD4	B2		09B	
03456		J2101	46		J2106	61			168	9		HBCPOA	01				FTH				A05
02991		J2106	61		J2117	33			168	9		HBCPOA	02	HAI1ALA	01	2	TQ2	E4		32B	
									****			SIGNAL (HBCPOA)		IS ON THE			NEXT PAGE		****		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HBCP0A  
 DATE 09-01-82 PAGE 75

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH FG	PREFIX	CONNECTOR	PIN	SH FG	MULTI GROUP	CODE	COLOR									IDENT	AND		
03275		J2117	33						168	9		HBCP0A	03	HAI AFA	01	1	TT3	C3		16B		A05	
02969		J2101	24		J2106	42			168	9		HBCP1A	01				FTH						
02970		J2106	42		J2117	46			168	9		HBCP1A	02	HAI ADA	01	2	TQ2	C1		20A			
02971		J2117	46		J2114	70			168	9		HBCP1A	03	HAI AJA	01	2	TT3	D2		21A			
02972		J2114	70		J2114	49			168	9		HBCP1A	04	HAI BKA	01	2	TQ2	E1		33A			
02973		J2114	49		J2114	36			168	9		HBCP1A	05	HAI CPA	01	2	TQ2	D4		26B			
02974		J2114	36		J2114	05			168	9		HBCP1A	06	HAI CHA	01	2	TQ2	C2		17A			
02975		J2114	05						168	9		HBCP1A	07	HAI BDA	01	2	TQ2	A2		03B			
02976		J2135	54		J2117	47			168	9		HBCP2A	01	HAI AIA	01	3	TD4	D1		25A			
02977		J2117	47		J2117	40			168	9		HBCP2A	02	HAI BJA	01	2	TT3	D3		25B			
02978		J2117	40		J2117	08			168	9		HBCP2A	03	HAI CNA	01	2	TT3	C1		19A			
02979		J2117	08		J2117	03			168	9		HBCP2A	04	HAI ABA	01	2	TT3	A1		06A			
02980		J2117	03		J2117	11			168	9		HBCP2A	05	HAI BCA	01	2	TT3	A2		02A			
02981		J2117	11		J2101	25			168	9		HBCP2A	06	HAI CGA	01	2	TT3	A3		05B			
02982		J2101	25						168	9		HBCP2A	07				FTH						
02983		J2101	26		J2108	15			168	9		HBCP3A	01				FTH					A05	
02986		J2108	15		J2114	07			168	9		HBCP3A	04	HAC P30V	01	1	THI	A6		07B			
02987		J2114	07		J2117	05			168	9		HBCP3A	05	HAI BEA	01	2	TQ2	A3		03A			
02988		J2117	05		J2117	10			168	9		HBCP3A	06	HAI BCA	01	3	TT3	A2		03B			
02989		J2117	10		J2135	52			168	9		HBCP3A	07	HAI ABA	01	3	TT3	A1		07A			
02990		J2135	52		J2135	18			168	9		HBCP3A	08	HAI AIA	01	2	TD4	D1		24A		A05	
03330		J2135	18		J2117	30			168	9		HBCP3A	09	HAI AKA	01	2	TD4	B2		10A		A05	
03262		J2117	30						168	9		HBCP3A	10	HAI AEA	01	2	TT3	C2		15A		A05	
02992		J2101	27		J2106	20			168	9		HBCP4A	01				FTH					A05	
03243		J2106	20		J2106	19			168	9		HBCP4A	02	HAI 08A	01	2	TQ2	B2		11A		A05	
03244		J2106	19		J2106	26			168	9		HBCP4A	03	HAI 14A	01	2	TQ2	B3		09B		A05	
03246		J2106	26		J2106	25			168	9		HBCP4A	04	HAI 19A	01	2	TQ2	B1		14A		A05	
03245		J2106	25		J2106	37			168	9		HBCP4A	05	HAI 23A	01	2	TQ2	B4		12B		A05	
03242		J2106	37						168	9		HBCP4A	06	HAI 29A	01	2	TQ2	C4		18B		A05	
02996		J2101	29		J2109	76			168	9		HBCP5A	02				FTH					A05	
02617		J2109	76		J2114	26			168	9		HBCP5A	03	HAI 31A	01	1	TQ2	F4		37A		A05	
03007		J2114	26		J2114	55			168	9		HBCP5A	04	HAI BFA	01	2	TQ2	B1		14A		A05	
03006		J2114	55		J2114	78			168	9		HBCP5A	05	HAI CBA	01	2	TQ2	E3		29B		A05	
03005		J2114	78						168	9		HBCP5A	06	HAI CRA	01	2	TQ2	F4		38A		A05	
02997		J2117	54		J2114	73			168	9		HBCP6A	01	HAI AGA	01	2	TT3	D1		25A			
02998		J2114	73		J2114	19			168	9		HBCP6A	02	HAI CDA	01	2	TQ2	F2		36B		A05	
03000		J2114	19		J2101	30			168	9		HBCP6A	04	HAI BHA	01	2	TQ2	B3		09B			
03001		J2101	30						168	9		HBCP6A	05				FTH						
02999		J2114	43		J2114	56			168	9		HBCP7A	00	HAI CMA	01	2	TQ2	D3		23B		A05	
03002		J2114	56		J2109	73			168	9		HBCP7A	01	HAI CKA	01	2	TQ2	D1		26A			
03003		J2109	73		J2101	35			168	9		HBCP7A	02	HAI BAA	01	2	TQ2	F2		36B			
03004		J2101	35						168	9		HBCP7A	03				FTH						
									****	SIGNAL	(HBCP8A)	IS ON THE NEXT PAGE ****											

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HBCP8A  
 DATE 09-01-82 PAGE 76

RECORD NUMBER	FROM			SERIAL	TO			MULTI GROUP	WIRE			SPE. INST. MISC.	SIGNAL	SEQ NO	EQUATION	TECH	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		CODE	COLOR	IDENT												
03290		J2117	37		J2101	36			16B	9		HBCP8A	03	HAI06A	01	3	YF3	C3		18B		A05	
03008		J2101	36						16B	9		HBCP8A	04				FTH						
03009		J2114	79		J2114	42			16B	9		HBCP9A	01	HAICCA	01	2	TQ2	F1			39B		
03010		J2114	42		J2114	20			16B	9		HBCP9A	02	HAICFA	01	2	TQ2	C1			20A		
03011		J2114	20		J2101	37			16B	9		HBCP9A	03	HAIBGA	01	2	TQ2	B2			11A		
03012		J2101	37						16B	9		HBCP9A	04				FTH						
03013		J2136	79		J2136	65			16B	9		HBFBE0	01	HAFBBAV	01	1	THI	F1			39B		
03014		J2136	65		J2101	11			16B	9		HBFBE0	02	HAFBAAV	01	1	THI	E6			33B		
03015		J2101	11						16B	9		HBFBE0	03				FTH						
03042		J2117	76		J2117	72			16B	9		HBHAHS	01	HAE6CA	01	2	TT3	F3			37A		A04
03043		J2117	72		J2101	13			16B	9		HBHAHS	02	HAE5CA	01	3	TT3	F2			34A		A04
03044		J2101	13						16B	9		HBHAHS	03				FTH						A04
03016		J2143	62		J2143	55			16B	9		HBHA10V	01	HAETCA	01	1	TQ2	E2			29A		
03017		J2143	55		J2101	09			16B	9		HBHA10V	02	HAEBCA	01	2	TQ2	E3			29B		
03018		J2101	09						16B	9		HBHA10V	03				FTH						
03019		J2117	66		J2101	15			16B	9		HBKBI5V1	01	HAE1CA	01	1	TT3	E1			31A		
03020		J2101	15						16B	9		HBKBI5V1	02				FTH						
03021		J2117	53		J2101	17			16B	9		HBKBI6V1	01	HAE2CA	01	1	TT3	E2			28B		
03022		J2101	17						16B	9		HBKBI6V1	02				FTH						
03023		J2117	57		J2101	18			16B	9		HBKBI7V1	01	HAE3CA	01	1	TT3	E3			30B		
03024		J2101	18						16B	9		HBKBI7V1	02				FTH						
03025		J2117	75		J2101	19			16B	9		HBKBI8V1	01	HAE4CA	01	1	TT3	F1			37B		
03026		J2101	19						16B	9		HBKBI8V1	02				FTH						
03470		J2101	60		J2138	71			16B	9		HBLAFO	01				FTH						B01
03347		J2138	71						16B	9		HBLAFO	02	HAEBDA	01	1	TQ2	F2			36A		B01
03027		J2108	06		J2108	62			16B	9		HBLDC0	01	HALDCAV	01	1	THI	A2			05A		
03028		J2108	62		J2101	42			16B	9		HBLDC0	02	HALDDAV	01	1	THI	E3			29A		
03029		J2101	42						16B	9		HBLDC0	03				FTH						
03455		J2101	45		J2109	29			16B	9		HBNBCA	01				FTH						A02
03238		J2109	29						16B	9		HBNBCA	02	HAI06A	01	1	TQ2	C3			14B		A02
03033		J2141	69		J2136	73			16B	9		HBSAKAV	01	HARM20V	01	1	THI	F3			35B		
03034		J2136	73		J2136	69			16B	9		HBSAKAV	02	HARM40V	01	1	THI	F2			37B		
03035		J2136	69		J2101	23			16B	9		HBSAKAV	03	HARM50V	01	1	THI	F3			35B		
03036		J2101	23						16B	9		HBSAKAV	04				FTH						
03037		J2134	59		J2124	04			16B	9		HBTE3A	01	HAENAS	01	1	TQ2	E4			31B		
03038		J2124	04		J2124	06			16B	9		HBTE3A	02	HADECOV	01	1	THI	A3			02A		
03039		J2124	06		J2124	11			16B	9		HBTE3A	03	HADEBOV	01	1	THI	A2			05A		
									****	SIGNAL	(HBTE3A	IS ON THE NEXT PAGE										****	

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX HBTE3A  
 DATE 09-01-82 PAGE 77

RECORD NUMBER	FROM			SH TO	TO			SH TO	WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		MULTI GROUP	CODE	COLOR											
03040		J2124	11		J2101	10			168	9		HBTE3A	04	HAD0A0V	01	1	THI	A1		07A		
03041		J2101	10						168	9		H8TE3A	05				FTH					
03384		J2144	46		J2144	30			168	9		HBT4COV	00C	HAFTBN	01	1	TDD	HN		21A		C01
03045		J2144	30		J2101	14			168	9		HBT4COV	01	HAFTCN	01	1	TDD	FN		15A		C01
03046		J2101	14						168	9		HBT4COV	02				FTH					C01
03457		J2101	47		J2106	47			168	9		HBWAKA	01				FTH					A05
03232		J2106	47		J2109	34			168	9		HBWAKA	02	HAGM1A	01	1	TQ2	D4		25B		A05
03239		J2109	34		J2109	35			168	9		HBWAKA	03	HAGM2A	01	1	TQ2	C2		16A		A05
03251		J2109	35		J2109	47			168	9		HBWAKA	04	HAGM3A	01	1	TQ2	C4		17B		A05
03252		J2109	47						168	9		HBWAKA	05	HAGM4A	01	1	TQ2	D4		25B		A05
03346		J2138	65		J2101	43			168	9		HBYBPOV	01	HACKM0	01	1	TQ2	F3		34B		A04
03049		J2101	43						168	9		HBYBPOV	03				FTH					
03050		J2120	03		J2102	01			168	9		HCD000	01	HAD010E	01	1	TS4	A1		03B		
03051		J2102	01						168	9		HCD000	02				EXT					
03052		J2120	01		J2102	03			168	9		HCD010	01	HAD011E	01	1	TS4	A2		02B		
03053		J2102	03						168	9		HCD010	02				EXT					
03054		J2120	04		J2102	04			168	9		HCD020	01	HAD012E	01	1	TS4	A3		02A		
03055		J2102	04						168	9		HCD020	02				EXT					
03056		J2120	06		J2102	05			168	9		HCD030	01	HAD013E	01	1	TS4	A4		03A		
03057		J2102	05						168	9		HCD030	02				EXT					
03058		J2120	17		J2102	06			168	9		HCD040	01	HAD020E	01	1	TS4	B1		09B		
03059		J2102	06						168	9		HCD040	02				EXT					
03060		J2120	15		J2102	07			168	9		HCD050	01	HAD021E	01	1	TS4	B2		08B		
03061		J2102	07						168	9		HCD050	02				EXT					
03062		J2120	18		J2102	08			168	9		HCD060	01	HAD022E	01	1	TS4	B3		09A		
03063		J2102	08						168	9		HCD060	02				EXT					
03064		J2120	20		J2102	09			168	9		HCD070	01	HAD023E	01	1	TS4	B4		10A		
03065		J2102	09						168	9		HCD070	02				EXT					
03066		J2120	31		J2102	10			168	9		HCD080	01	HAD030E	01	1	TS4	C1		15B		
03067		J2102	10						168	9		HCD080	02				EXT					
03068		J2120	29		J2102	11			168	9		HCD090	01	HAD031E	01	1	TS4	C2		14B		
03069		J2102	11						168	9		HCD090	02				EXT					
03070		J2120	30		J2102	13			168	9		HCD100	01	HAD032E	01	1	TS4	C3		15A		
03071		J2102	13						168	9		HCD100	02				EXT					
03072		J2120	34		J2102	14			168	9		HCD110	01	HAD033E	01	1	TS4	C4		16A		
									****	SIGNAL	HCD110	IS ON THE NEXT PAGE										****

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3M2S2

REV E INDEX HCD110  
 DATE 09-01-82 PAGE 78

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACTORS	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH TO	PREFIX	CONNECTOR	PIN	SH TO	MULTI GROUP	CODE	COLOR											
03073		J2102	14							168	9		HCD110	02			EXT					
03074		J2120	43		J2102	15				168	9		HCD120	01	HAD040E	01	1	TS4	D1		23B	
03075		J2102	15							168	9		HCD120	02			EXT					
03076		J2120	41		J2102	17				168	9		HCD130	01	HAD041E	01	1	TS4	D2		22B	
03077		J2102	17							168	9		HCD130	02			EXT					
03078		J2120	46		J2102	18				168	9		HCD140	01	HAD042E	01	1	TS4	D3		21A	
03079		J2102	18							168	9		HCD140	02			EXT					
03080		J2120	48		J2102	19				168	9		HCD150	01	HAD043E	01	1	TS4	D4		22A	
03081		J2102	19							168	9		HCD150	02			EXT					
03082		J2120	55		J2102	20				168	9		HCD160	01	HAD050E	01	1	TS4	E1		29B	
03083		J2102	20							168	9		HCD160	02			EXT					
03084		J2120	53		J2102	21				168	9		HCD170	01	HAD051E	01	1	TS4	E2		28B	
03085		J2102	21							168	9		HCD170	02			EXT					
03086		J2120	57		J2102	22				168	9		HCD180	01	HAD052E	01	1	TS4	E3		28A	
03087		J2102	22							168	9		HCD180	02			EXT					
03088		J2120	60		J2102	23				168	9		HCD190	01	HAD053E	01	1	TS4	E4		29A	
03089		J2102	23							168	9		HCD190	02			EXT					
03090		J2120	71		J2102	24				168	9		HCD200	01	HAD060E	01	1	TS4	F1		35B	
03091		J2102	24							168	9		HCD200	02			EXT					
03092		J2120	69		J2102	25				168	9		HCD210	01	HAD061E	01	1	TS4	F2		34B	
03093		J2102	25							168	9		HCD210	02			EXT					
03094		J2120	70		J2102	26				168	9		HCD220	01	HAD062E	01	1	TS4	F3		34A	
03095		J2102	26							168	9		HCD220	02			EXT					
03096		J2120	72		J2102	27				168	9		HCD230	01	HAD063E	01	1	TS4	F4		35A	
03097		J2102	27							168	9		HCD230	02			EXT					
03098		J2119	03		J2102	29				168	9		HCD240	01	HAD070E	01	1	TS4	A1		03B	
03099		J2102	29							168	9		HCD240	02			EXT					
03100		J2119	01		J2102	30				168	9		HCD250	01	HAD071E	01	1	TS4	A2		02B	
03101		J2102	30							168	9		HCD250	02			EXT					
03102		J2119	04		J2102	31				168	9		HCD260	01	HAD072E	01	1	TS4	A3		02A	
03103		J2102	31							168	9		HCD260	02			EXT					
03104		J2119	06		J2102	33				168	9		HCD270	01	HAD073E	01	1	TS4	A4		03A	
03105		J2102	33							168	9		HCD270	02			EXT					
										****		SIGNAL	HCD280		IS ON THE		NEXT PAGE	****				



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3M2S2

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 DATE 09-01-82 PAGE 79

RECORD NUMBER	FROM				TO				WIRE			SPEC. INST. MISC.	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	SM TO	PREFIX	CONNECTOR	PIN	SM TO	MULTI GROUP	CODE	COLOR													IDENT
03106		J2119	17		J2102	34				168	9		HCD280	01	HAD080E	01	1	TS4	B1		09B			
03107		J2102	34							168	9		HCD280	02				EXT						
03108		J2119	15		J2102	35				168	9		HCD290	01	HAD081E	01	1	TS4	B2		08B			
03109		J2102	35							168	9		HCD290	02				EXT						
03110		J2119	18		J2102	36				168	9		HCD300	01	HAD082E	01	1	TS4	B3		09A			
03111		J2102	36							168	9		HCD300	02				EXT						
03112		J2119	20		J2102	37				168	9		HCD310	01	HAD083E	01	1	TS4	B4		10A			
03113		J2102	37							168	9		HCD310	02				EXT						
03114		J2119	31		J2102	38				168	9		HCD320	01	HAD090E	01	1	TS4	C1		15B			
03115		J2102	38							168	9		HCD320	02				EXT						
03116		J2119	29		J2102	39				168	9		HCD330	01	HAD091E	01	1	TS4	C2		14B			
03117		J2102	39							168	9		HCD330	02				EXT						
03118		J2119	30		J2102	40				168	9		HCD340	01	HAD092E	01	1	TS4	C3		15A			
03119		J2102	40							168	9		HCD340	02				EXT						
03120		J2119	34		J2102	41				168	9		HCD350	01	HAD093E	01	1	TS4	C4		16A			
03121		J2102	41							168	9		HCD350	02				EXT						
03122		J2118	03		J2102	42				168	9		HCD360	01	HAD100E	01	1	TS4	A1		03B			
03123		J2102	42							168	9		HCD360	02				EXT						
03124		J2118	01		J2102	43				168	9		HCD370	01	HAD101E	01	1	TS4	A2		02B			
03125		J2102	43							168	9		HCD370	02				EXT						
03126		J2118	04		J2102	45				168	9		HCD380	01	HAD102E	01	1	TS4	A3		02A			
03127		J2102	45							168	9		HCD380	02				EXT						
03128		J2118	06		J2102	46				168	9		HCD390	01	HAD103E	01	1	TS4	A4		03A			
03129		J2102	46							168	9		HCD390	02				EXT						
03130		J2118	17		J2102	47				168	9		HCD400	01	HAD110E	01	1	TS4	B1		09B			
03131		J2102	47							168	9		HCD400	02				EXT						
03132		J2118	15		J2102	48				168	9		HCD410	01	HAD111E	01	1	TS4	B2		08B			
03133		J2102	48							168	9		HCD410	02				EXT						
03134		J2118	18		J2102	49				168	9		HCD420	01	HAD112E	01	1	TS4	B3		09A			
03135		J2102	49							168	9		HCD420	02				EXT						
03136		J2118	20		J2102	50				168	9		HCD430	01	HAD113E	01	1	TS4	B4		10A			
03137		J2102	50							168	9		HCD430	02				EXT						
03138		J2118	31		J2102	51				168	9		HCD440	01	HAD120E	01	1	TS4	C1		15B			
03139		J2102	51							168	9		HCD440	02				EXT						

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX HCD440  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 80

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	T.M.	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SIZE	PREFIX	CONNECTOR	PIN	SIZE	MULTI GROUP	CODE	COLOR	IDENT											
03140 03141	J2118 J2102	29 52			J2102	52			168	9			HCD450 HCD450	01 02	HAD121E	01	1	TS4 EXT	C2		14B		
03142 03143	J2118 J2102	30 53			J2102	53			168	9			HCD460 HCD460	01 02	HAD122E	01	1	TS4 EXT	C3		15A		
03144 03145	J2118 J2102	34 54			J2102	54			168	9			HCD470 HCD470	01 02	HAD123E	01	1	TS4 EXT	C4		16A		
03146 03147	J2118 J2102	43 55			J2102	55			168	9			HCD480 HCD480	01 02	HAD130E	01	1	TS4 EXT	D1		23B		
03148 03149	J2118 J2102	41 56			J2102	56			168	9			HCD490 HCD490	01 02	HAD131E	01	1	TS4 EXT	D2		22B		
03150 03151	J2118 J2102	46 57			J2102	57			168	9			HCD500 HCD500	01 02	HAD132E	01	1	TS4 EXT	D3		21A		
03152 03153	J2118 J2102	48 59			J2102	59			168	9			HCD510 HCD510	01 02	HAD133E	01	1	TS4 EXT	D4		22A		
03154 03155	J2118 J2102	55 60			J2102	60			168	9			HCD520 HCD520	01 02	HAD140E	01	1	TS4 EXT	E1		29B		
03156 03157	J2118 J2102	53 61			J2102	61			168	9			HCD530 HCD530	01 02	HAD141E	01	1	TS4 EXT	E2		28B		
03158 03159	J2118 J2102	57 62			J2102	62			168	9			HCD540 HCD540	01 02	HAD142E	01	1	TS4 EXT	E3		28A		
03160 03161	J2118 J2102	60 63			J2102	63			168	9			HCD550 HCD550	01 02	HAD143E	01	1	TS4 EXT	E4		29A		
03162 03163	J2118 J2102	71 64			J2102	64			168	9			HCD560 HCD560	01 02	HAD150E	01	1	TS4 EXT	F1		35B		
03164 03165	J2118 J2102	69 65			J2102	65			168	9			HCD570 HCD570	01 02	HAD151E	01	1	TS4 EXT	F2		34B		
03166 03167	J2118 J2102	70 66			J2102	66			168	9			HCD580 HCD580	01 02	HAD152E	01	1	TS4 EXT	F3		34A		
03168 03169	J2118 J2102	72 68			J2102	68			168	9			HCD590 HCD590	01 02	HAD153E	01	1	TS4 EXT	F4		35A		
03170 03171	J2119 J2102	43 69			J2102	69			168	9			HCD600 HCD600	01 02	HAD160E	01	1	TS4 EXT	D1		23B		
									****	SIGNAL		(HCD610	IS ON THE		NEXT PAGE		****						

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	DRILL	PREFIX	CONNECTOR	PIN	DRILL	MULTI GROUP	CODE	COLOR	IDENT											
03172		J2119	41		J2102	70			168	9		HCD610	01	HAD161E	01	1	TS4	02		22B			
03173		J2102	70						168	9		HCD610	02				EXT						
03174		J2119	46		J2102	71			168	9		HCD620	01	HAD162E	01	1	TS4	03		21A			
03175		J2102	71						168	9		HCD620	02				EXT						
03176		J2119	48		J2102	72			168	9		HCD630	01	HAD163E	01	1	TS4	04		22A			
03177		J2102	72						168	9		HCD630	02				EXT						
03178		J2119	55		J2102	73			168	9		HCD640	01	HAD170E	01	1	TS4	E1		29B			
03179		J2102	73						168	9		HCD640	02				EXT						
03180		J2119	53		J2102	74			168	9		HCD650	01	HAD171E	01	1	TS4	E2		28B			
03181		J2102	74						168	9		HCD650	02				EXT						
03182		J2119	57		J2102	75			168	9		HCD660	01	HAD172E	01	1	TS4	E3		28A			
03183		J2102	75						168	9		HCD660	02				EXT						
03184		J2119	60		J2102	76			168	9		HCD670	01	HAD173E	01	1	TS4	E4		29A			
03185		J2102	76						168	9		HCD670	02				EXT						
03186		J2119	71		J2102	77			168	9		HCD680	01	HAD180E	01	1	TS4	F1		35B			
03187		J2102	77						168	9		HCD680	02				EXT						
03188		J2119	69		J2102	78			168	9		HCD690	01	HAD181E	01	1	TS4	F2		34B			
03189		J2102	78						168	9		HCD690	02				EXT						
03190		J2119	70		J2102	79			168	9		HCD700	01	HAD182E	01	1	TS4	F3		34A			
03191		J2102	79						168	9		HCD700	02				EXT						
03192		J2119	72		J2102	80			168	9		HCD710	01	HAD183E	01	1	TS4	F4		35A			
03193		J2102	80						168	9		HCD710	02				EXT						
03582	SAE	J2140	66		SAE	J2140	41		168	9		SPI024	06			01	1	TT3	E1	31A		801	
03557	SAE	J2140	41		SAE	J2140	49		168	9		SPI024	07			01	1	TT3	02	22B		801	
03565	SAE	J2140	49		J2127	41			168	9		SPI024	08			01	3	TT3	03	26B		801	
03240		J2127	41						168	9		SPI024	09					RR1	E1				
01179		J2112	35		J2114	37			168	9		SPI025	02			01	1	THI	C2	18A		801	
02994		J2114	37		J2109	07			168	9		SPI025	03	HAICJA	01	2	TQ2	C4		18B		A05	
02993		J2109	07		J2106	78			168	9		SPI025	04	HAIACA	01	2	TQ2	A3		03A		A05	
02616		J2106	78		J2109	25			168	9		SPI025	05	HAI11A	01	2	TQ2	F4		38A		A05	
02614		J2109	25		J2114	61			168	9		SPI025	06	HAI05A	01	2	TQ2	B4		12B		A05	
02610		J2114	61		J2127	45			168	9		SPI025	08	HAI16A	01	2	TQ2	E4		32B		A05	
03249		J2127	45						168	9		SPI025	09				RR1	E2					
02618		J2109	74		J2109	40			168	9		SPI026	00	HAI21A	01	2	TQ2	F3		35B		A05	
02620		J2109	40		J2116	62			168	9		SPI026	002	HAI26A	01	1	TQ2	C1		19A		801	
03256		J2116	62		J2116	50			168	9		SPI026	07			01	1	THI	E3	29A			
03257		J2116	50		J2127	47			168	9		SPI026	08			01	1	THI	D3	22A			
									****	SIGNAL		(SPI026	IS ON THE		NEXT PAGE		****						

DRAWING NUMBER WL10281451  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

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RECORD NUMBER	FROM				TO				WIRE				SPEC INST MISC	SIGNAL	SEQ NO	EQUATION	T. F.	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH. 12	PREFIX	CONNECTOR	PIN	SH. 12	SH. TO	MULTI GROUP	CODE	COLOR										IDENT	AND		
03258		J2127	47								168	9		SPI026	09			RR1	E3						
01141		J2108	55		J2106	34					168	9		SPI027	00		01 1	THI	E4		29B		A05		
01127		J2106	34		J2106	29					168	9		SPI027	01		01 1	TQ2	C2		16A		A05		
01129		J2106	29		J2118	26					168	9		SPI027	02		01 1	TQ2	C3		14B		A05		
03263		J2118	26		J2118	14					168	9		SPI027	05	HAD112E	01 2	TS4	B3		13A				
03264		J2118	14		J2118	40					168	9		SPI027	06	HAD102E	01 2	TS4	A3		06A				
03265		J2118	40		J2118	54					168	9		SPI027	07	HAD122E	01 2	TS4	C3		19A				
03266		J2118	54		J2118	66					168	9		SPI027	08	HAD132E	01 2	TS4	D3		25A				
03267		J2118	66		J2118	78					168	9		SPI027	09	HAD142E	01 2	TS4	E3		32A				
03268		J2118	78		J2127	48					168	9		SPI027	10	HAD152E	01 2	TS4	F3		38A				
03269		J2127	48								168	9		SPI027	11			RR1	E4						
03270		J2118	05		J2119	05					168	9		SPI028	01	HAD100F	01 2	TS4	A1		04B				
03271		J2119	05		J2119	19					168	9		SPI028	02	HAD070E	01 2	TS4	A1		04B				
03272		J2119	19		J2118	19					168	9		SPI028	03	HAD080E	01 2	TS4	B1		10B				
03273		J2118	19		J2106	36					168	9		SPI028	04	HAD110E	01 2	TS4	B1		10B		A05		
02985		J2106	36		J2106	31					168	9		SPI028	05		01 2	TQ2	C2		17A		A05		
02995		J2106	31		J2118	33					168	9		SPI028	06		01 2	TQ2	C3		15B		A05		
03276		J2118	33		J2118	45					168	9		SPI028	07	HAD120E	01 2	TS4	C1		16B				
03277		J2118	45		J2118	59					168	9		SPI028	08	HAD130E	01 2	TS4	D1		24B				
03278		J2118	59		J2118	73					168	9		SPI028	09	HAD140E	01 2	TS4	E1		30B				
03279		J2118	73		J2127	52					168	9		SPI028	10	HAD150E	01 2	TS4	F1		36B		D01		
03281		J2127	52								168	9		SPI028	12			RR1	E5						
03282		J2139	19		J2135	05					168	9		SPI029	01		01 1	DBC	B3		09B		A05		
03284		J2135	05		J2138	54					168	9		SPI029	03		01 3	TD4	A2		03B		B01		
01701		J2138	54		J2135	48					168	9		SPI029	04		01 1	TQ2	D1		25A		B01		
03286		J2135	48		J2135	62					168	9		SPI029	05		01 3	TD4	D2		22A				
03287		J2135	62		J2127	54					168	9		SPI029	06		01 3	TD4	E2		29A				
03288		J2127	54								168	9		SPI029	07			RR1	E6					A05	
03291		J2120	14		J2119	14					168	9		SPI030	01	HAD012E	01 2	TS4	A3		06A				
03292		J2119	14		J2119	26					168	9		SPI030	02	HAD072E	01 2	TS4	A3		06A				
03293		J2119	26		J2120	26					168	9		SPI030	03	HAD082E	01 2	TS4	B3		13A				
03294		J2120	26		J2120	40					168	9		SPI030	04	HAD022E	01 2	TS4	B3		13A				
03295		J2120	40		J2119	40					168	9		SPI030	05	HAD032E	01 2	TS4	C3		19A				
03296		J2119	40		J2119	78					168	9		SPI030	06	HAD092E	01 2	TS4	C3		19A				
03297		J2119	78		J2120	78					168	9		SPI030	07	HAD182E	01 2	TS4	F3		38A				
03298		J2120	78		J2120	66					168	9		SPI030	08	HAD062E	01 2	TS4	F3		38A				
03299		J2120	66		J2119	66					168	9		SPI030	09	HAD052E	01 2	TS4	E3		32A				
03300		J2119	66		J2119	54					168	9		SPI030	10	HAD172E	01 2	TS4	E3		32A				
03301		J2119	54		J2120	54					168	9		SPI030	11	HAD162E	01 2	TS4	D3		25A				
03302		J2120	54		J2127	51					168	9		SPI030	12	HAD042E	01 2	TS4	D3		25A				
03303		J2127	51								168	9		SPI030	13			RR1	F1						
03304		J2127	53		J2124	09					168	9		SPI031	01			RR1	F2						
03305		J2124	09		J2124	05					168	9		SPI031	02	HADXZAV	01 1	THI	A5		05B				
03306		J2124	05		J2120	05					168	9		SPI031	03	HADXYAV	01 1	THI	A4		03B				
03307		J2120	05		J2120	19					168	9		SPI031	04	HAD010E	01 2	TS4	A1		04B				
											****	SIGNAL	(SPI031)	IS ON THE	NEXT PAGE	****									

DRAWING NUMBER WL10281451  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

REV E INDEX SPI031  
DATE 09-01-82 PAGE 83

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	TYPE	PREFIX	CONNECTOR	PIN	TYPE	MULTI GROUP	CODE	COLOR	IDENT												
03308		J2120	19			J2120	33				168	9		SPI031	05	HAD020E	01	2	TS4	B1		10B		
03309		J2120	33			J2119	33				168	9		SPI031	06	HAD030E	01	2	TS4	C1		16B		
03310		J2119	33			J2119	45				168	9		SPI031	07	HAD090E	01	2	TS4	C1		16B		
03311		J2119	45			J2120	45				168	9		SPI031	08	HAD160E	01	2	TS4	D1		24B		
03312		J2120	45			J2120	59				168	9		SPI031	09	HAD040E	01	2	TS4	D1		24B		
03313		J2120	59			J2119	59				168	9		SPI031	10	HAD050E	01	2	TS4	E1		30B		
03314		J2119	59			J2119	73				168	9		SPI031	11	HAD170E	01	2	TS4	E1		30B		
03315		J2119	73			J2120	73				168	9		SPI031	12	HAD180E	01	2	TS4	F1		36B		
03316		J2120	73								168	9		SPI031	13	HAD080E	01	2	TS4	F1		36B		
03318		J2134	08			J2135	01				168	9		SPI032	02		01	1	TQ2	A1		06A		
03319		J2135	01			J2135	06				168	9		SPI032	03		01	1	TD4	A2		02B		
03320		J2135	06			J2135	26				168	9		SPI032	04	HAGASO	01	1	TD4	A1		05A	A05	
03322		J2135	26			J2135	36				168	9		SPI032	06	HAEN1A	01	4	TD4	B1		14A		
03323		J2135	36			J2135	42				168	9		SPI032	07	HAGAXO	01	4	TD4	C2		17A		
03324		J2135	42			J2127	55				168	9		SPI032	08	HAGAWO	01	4	TD4	C1		20A		
03325		J2127	55								168	9		SPI032	09				RR1	F3				
03326		J2127	56			J2135	60				168	9		SPI033	01				RR1	F4				B01
03328		J2135	60			J2135	46				168	9		SPI033	03		01	2	TD4	E2		28A		
03329		J2135	46			J2134	10				168	9		SPI033	04		01	2	TD4	D2		21A	A07	
03332		J2134	10			J2135	04				168	9		SPI033	07		01	2	TQ2	A1		07A	A05	
03334		J2135	04			J2138	56				168	9		SPI033	09		01	2	TD4	A2		04A	B01	
01505		J2138	56								168	9		SPI033	10		01	2	TQ2	D1		26A	B01	
03335		J2144	51			J2144	63				168	9		SPI034	01		01	1	TDD	GQ		27B		
03336		J2144	63			J2139	77				168	9		SPI034	02		01	1	TDD	JQ		33B		
03337		J2139	77			J2139	21				168	9		SPI034	03		01	4	DBC	E1		36B		
03338		J2139	21			J2135	07				168	9		SPI034	04		01	1	DBC	B4		10B		
03339		J2135	07			J2135	20				168	9		SPI034	05		01	4	TD4	A2		03A	A05	
03341		J2135	20			J2135	50				168	9		SPI034	07	HAIKA	01	4	TD4	B2		11A	A05	
03342		J2135	50			J2135	64				168	9		SPI034	08		01	4	TD4	D2		23A		
03343		J2135	64			J2127	62				168	9		SPI034	09		01	4	TD4	E2		30A		
03344		J2127	62								168	9		SPI034	10				RR1	F5				
03345		J2127	64			J2138	76				168	9		SPI035	01				RR1	F6				B01
03348		J2138	76			J2135	74				168	9		SPI035	04		01	1	TQ2	F4		37A	A07	
03351		J2135	74			J2135	55				168	9		SPI035	07	HAENAR	01	4	TD4	F2		35B		
03352		J2135	55			J2135	43				168	9		SPI035	08		01	1	TD4	E2		29B		
03353		J2135	43								168	9		SPI035	09		01	1	TD4	D2		23B		
03354		J2143	05			J2143	07				168	9		SPI036	01		01	2	TQ2	A2		03B		
03355		J2143	07			J2143	13				168	9		SPI036	02		01	2	TQ2	A3		03A		
03356		J2143	13			J2139	22				168	9		SPI036	03		01	2	TQ2	A4		06B		
03357		J2139	22			J2139	48				168	9		SPI036	04		01	1	DBC	B2		11A		
03358		J2139	48			J2139	73				168	9		SPI036	05	HAACM4U	01	1	DBC	C4		22A		
03359		J2139	73			J2138	78				168	9		SPI036	06		01	2	DBC	E1		34B	A04	
03361		J2138	78			J2127	61				168	9		SPI036	08		01	2	TQ2	F4		38A		
03362		J2127	61								168	9		SPI036	09				RR1	G1				
										****	SIGNAL	(SPI037)	IS ON THE NEXT PAGE										****	

DRAWING NUMBER WL10281451 STRING UNIT ASSEMBLY NO. 10281451 REV E INDEX SPI037  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 84

RECORD NUMBER	FROM			TO			MULTI GROUP	WIRE			SIGNAL	SEQ NO	EQUATION	YCU	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN		CODE	COLOR	IDENT											
03365		J2139	20		J2139	47		168	9		SPI037	03		01	1	DBC	B1	10A			
03366		J2139	47		J2141	79		168	9		SPI037	04	HAACN3U	01	1	DBC	C3	23A		801	
03368		J2141	79		J2141	73		168	9		SPI037	06	HAGN50V	01	1	THI	F1	39B			
03369		J2141	73		J2139	71		168	9		SPI037	07	HAGN60V	01	1	THI	F2	37B			
03370		J2139	71		J2139	64		168	9		SPI037	08		01	1	DBC	E1	33B			
03371		J2139	64		J2127	63		168	9		SPI037	09	HAACN6U	01	1	DBC	D4	30A			
03372		J2127	63					168	9		SPI037	10				RRI	G2				
03031		J2142	21		J2142	23		168	9		SPI038	0A	HACMC7V1	01	1	R05	A7			801	
03030		J2142	23		J2144	29		168	9		SPI038	0B	HACMC8V1	01	1	R05	AB			801	
03373		J2144	29		J2144	52		168	9		SPI038	01	HAFTCQ	01	1	TDD	FQ	14B			
03374		J2144	52		J2144	66		168	9		SPI038	02		01	1	TDD	GP	24A			
03375		J2144	66		J2144	75		168	9		SPI038	03		01	1	TDD	JP	31A			
03376		J2144	75		J2139	75		168	9		SPI038	04		01	1	TDD	LP	37B			
03377		J2139	75		J2127	65		168	9		SPI038	05		01	3	DBC	E1	35B			
03378		J2127	65					166	9		SPI038	06				RRI	G3				
03380		J2144	62		J2144	71		168	9		SPI039	02		01	1	TDD	KI	29A			
03381		J2144	71		J2139	80		168	9		SPI039	03		01	1	TDD	MI	36A			
03382		J2139	80		J2127	66		168	9		SPI039	04		01	5	DBC	E1	38B			
03383		J2127	66					168	9		SPI039	05				RRI	G4				
03385		J2144	60		J2144	72		168	9		SPI040	02		01	1	TDD	KN	28A			
03386		J2144	72		J2139	69		168	9		SPI040	03		01	1	TDD	MN	34A			
03387		J2139	69		J2127	72		168	9		SPI040	04		01	1	DBC	E2	32A			
03388		J2127	72					168	9		SPI040	05				RRI	G5				
03389		J2144	50		J2144	64		168	9		SPI041	01	HAFTBP	01	1	TDD	HP	23A		CO1	
03390		J2144	64		J2144	73		168	9		SPI041	02		01	1	TDD	KP	30A			
03391		J2144	73		J2139	79		168	9		SPI041	03		01	1	TDD	MP	36B			
03392		J2139	79		J2127	74		168	9		SPI041	04		01	1	DBC	E3	37B			
03393		J2127	74					168	9		SPI041	05				RRI	G6				
03394		J2144	61		J2144	53		168	9		SPI042	01	HAFTBQ	01	1	TDD	HQ	22B		CO1	
03395		J2144	53		J2144	65		168	9		SPI042	02		01	1	TDD	KQ	28B			
03396		J2144	65		J2139	78		168	9		SPI042	03		01	1	TDD	MQ	34B			
03397		J2139	78		J2127	71		168	9		SPI042	04		01	1	DBC	E4	38A			
03398		J2127	71					168	9		SPI042	05				RRI	H1				
03399		J2139	66		J2127	73		168	9		SPI043	01		01	1	DBC	E5	32B			
03400		J2127	73					168	9		SPI043	02				RRI	H2				
03401		J2143	04		J2143	03		168	9		SPI044	01		01	1	TQ2	A2	04A			
03402		J2143	03		J2143	11		168	9		SPI044	02		01	1	TQ2	A3	02A			
03403		J2143	11		J2143	24		168	9		SPI044	03		01	1	TQ2	A4	05B			
03404		J2143	24		J2143	29		168	9		SPI044	04		01	1	TQ2	B1	13A			
03405		J2143	29		J2143	35		168	9		SPI044	05		01	1	TQ2	C3	14B			
03406		J2143	35		J2143	54		168	9		SPI044	06		01	1	TQ2	C4	17B			
03407		J2143	54		J2127	75		168	9		SPI044	07		01	1	TQ2	D1	25A		801	
03409		J2127	75					168	9		SPI044	09				RRI	H3				

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX SPI044  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 85

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	BR FG	PREFIX	CONNECTOR	PIN	BR FG	MULTI GROUP	CODE												COLOR
03410		J2143	26		J2143	31				168	9		SPI045	01								
03411		J2143	31		J2143	37				168	9		SPI045	02	01	2	TQ2	B1		14A		
03412		J2143	37		J2143	43				168	9		SPI045	03	01	2	TQ2	C3		15B		
03413		J2143	43		J2143	49				168	9		SPI045	04	01	2	TQ2	C4		18B		
03414		J2143	49		J2143	50				168	9		SPI045	05	01	2	TQ2	D3		23B		
03415		J2143	50		J2143	56				168	9		SPI045	06	01	2	TQ2	D4		26B		
03416		J2143	56		J2143	79				168	9		SPI045	07	01	2	TQ2	D2		23A		
03417		J2143	79		J2127	76				168	9		SPI045	08	01	2	TQ2	D1		26A		
03418		J2127	76							168	9		SPI045	09			RR1	F1		39B		
03418		J2127	76							168	9		SPI045	09			RR1	H4				
03419		J2144	15		J2143	41				168	9		SPI046	01	HAET1Q	01	1	TDD	AQ		07B	
03420		J2143	41		J2143	67				168	9		SPI046	02		01	1	TQ2	D3		22B	
03421		J2143	47		J2143	48				168	9		SPI046	03		01	1	TQ2	D4		25B	
03422		J2143	48		J2143	65				168	9		SPI046	04		01	1	TQ2	D2		22A	
03423		J2143	65		J2143	71				168	9		SPI046	05		01	1	TQ2	F3		34B	
03424		J2143	71		J2143	77				168	9		SPI046	06		01	1	TQ2	F2		36A	
03425		J2143	77		J2143	76				168	9		SPI046	07		01	1	TQ2	F1		38B	
03426		J2143	76		J2127	77				168	9		SPI046	08		01	1	TQ2	F4		37A	
03427		J2127	77							168	9		SPI046	09			RR1	H5				
02910		J2143	10		J2144	03				168	9		SPI047	00C		01	2	TQ2	A1		07A	CO1
03428		J2144	03		J2144	17				168	9		SPI047	01	HAET2Q	01	1	TDD	BQ		02A	
03429		J2144	17		J2144	36				168	9		SPI047	02	HAET4Q	01	1	TDD	DQ		08B	
03430		J2144	36		J2144	56				168	9		SPI047	03	HAET5Q	01	1	TDD	FP		17A	
03431		J2144	56		J2143	78				168	9		SPI047	04		01	1	TDD	GN		26A	
03432		J2143	78		J2143	74				168	9		SPI047	05		01	2	TQ2	F4		38A	
03433		J2143	74		J2143	73				168	9		SPI047	06		01	2	TQ2	F3		35B	
03434		J2143	73		J2127	78				168	9		SPI047	07		01	2	TQ2	F2		36B	
03435		J2127	78							168	9		SPI047	08			RR1	H6				
03436		J2129	55		J2144	77				168	9		SPI048	01			RR1	F3				
03437		J2144	77		J2144	68				168	9		SPI048	02		01	1	TDD	L1		38B	
03438		J2144	68		J2144	54				168	9		SPI048	03		01	1	TDD	J1		32A	
03439		J2144	54		J2144	39				168	9		SPI048	04		01	1	TDD	G1		25A	
03440		J2144	39		J2144	27				168	9		SPI048	05	HAET5Q	01	1	TDD	EQ		19B	
03441		J2144	27		J2143	08				168	9		SPI048	06	HAET3Q	01	1	TDD	CQ		13B	CO1
02871		J2143	08							168	9		SPI048	07		01	1	TQ2	A1		06A	CO1
03562	SAE	J2140	46		SAE	J2140	47			168	9		SPI049	0A		01	2	TT3	O2		21A	BO1
03563	SAE	J2140	47		SAE	J2140	68			168	9		SPI049	0B		01	2	TT3	D3		25B	BO1
03584	SAE	J2140	68		J2144	79				168	9		SPI049	0C		01	2	TT3	E1		32A	DO1
03443		J2144	79		J2144	70				168	9		SPI049	01		01	1	TDD	LN		39B	
03444		J2144	70		J2129	56				168	9		SPI049	02		01	1	TDD	JN		33A	
03445		J2129	56							168	9		SPI049	03			RR1	F4				
03564	SAE	J2140	48		SAE	J2140	45			168	9		SPI050	0A		01	3	TT3	O2		22A	BO1
03561	SAE	J2140	45		SAE	J2140	70			168	9		SPI050	0B		01	1	TT3	D3		24B	BO1
03586	SAE	J2140	70		SAE	J2140	62			168	9		SPI050	0C		01	3	TT3	E1		33A	BO1

\*\*\* SIGNAL (SPI050) IS ON THE NEXT PAGE \*\*\*

DRAWING NUMBER WL10281451  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

STRING

UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

REV E INDEX SPI050  
DATE 09-01-82 PAGE 86

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	T	FACTORY	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	SHEET	PREFIX	CONNECTOR	PIN	SHEET	MULTI GROUP	CODE	COLOP	IDENT												
03578	SAE	J2140	62		SAE	J2140	57			168	9		SPI050	0D	HAL04A	01	3	TT3	E2		29A		801	
03573	SAE	J2140	57		SAE	J2140	79			168	9		SPI050	0E	HAL15A	01	1	TT3	E3		30B		801	
03595	SAE	J2140	79		SAE	J2140	71			168	9		SPI050	0F	HAL26A	01	3	TT3	F1		39B		801	
03587	SAE	J2140	71		SAE	J2140	69			168	9		SPI050	0G	HAL48A	01	2	TT3	F2		36A		801	
03585	SAE	J2140	69			J2144	80			168	9		SPI050	0H	HAL66A	01	1	TT3	F3		35A		801	
03446		J2144	80			J2129	62			168	9		SPI050	0I		01	1	TDD	LQ		39A			
03447		J2129	62							168	9		SPI050	02			1	RR1	F5					



**CARD RACK ASSEMBLY - DIGITAL, RH  
CONNECTOR WIRE LIST  
WL10281451**

**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 WIRED RH MTS.
7. ALL 8XXXXX CONTROLLED NUMBERS ARE PREFIXED BY CODE IDENT "13973"
8. ECOs WILL BE WRITTEN SHOWING YELLOW HAND WIRE BEING USED FOR CHANGES TO AUTOMATIC WIRING. THESE SAME YELLOW WIRES WILL BE INCORPORATED AS WHITE AUTOMATIC WIRES AT THE NEXT DRAWING UPDATE.

**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.

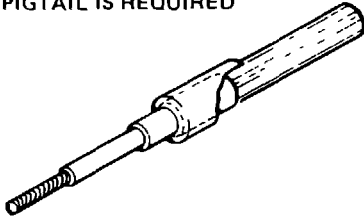
**Drawing No.**  
**WL10281451**  
**Rev. E, sheet 2**

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

- Q. Will cause an equation record to be omitted from logic listing.
  - R. Will suppress printing the "FROM/TO" pin number in the string and connector lists.
  - S. Do not move record number to the ident field for an ADD transaction in the harness string and double entry only. (Use only when adding a 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.

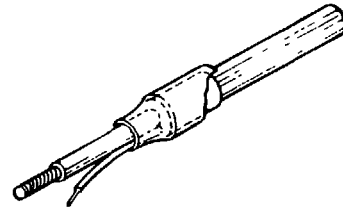
SHIELD FIGURE A

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



SHIELD FIGURE B

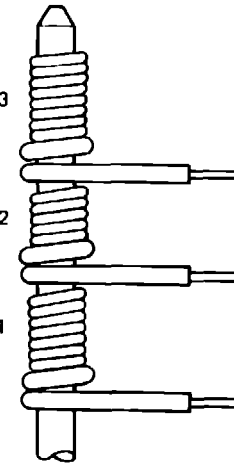
SHIELD TERMINATION FOR SHIELDED,  
SINGLE AND MULTIPLE CONDUCTORS,  
FRONT PIGTAIL IS REQUIRED



SHIELD FIGURE NO. 3

SHIELD FIGURE NO. 2

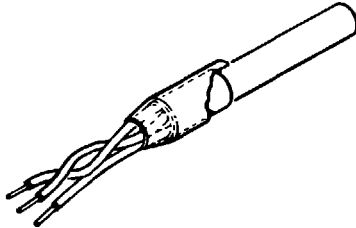
SHIELD FIGURE NO. 1



SHIELD FIGURE NUMBER  
INDICATES LEVEL OF WIRE WRAP

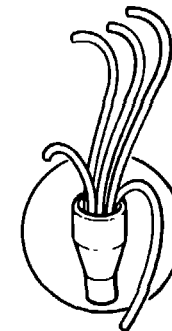
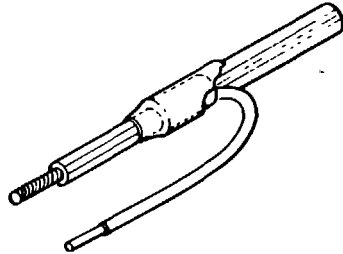
SHIELD FIGURE G

SHIELDED CABLE TERMINATION WITH DRAIN WIRE



SHIELD FIGURE C

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

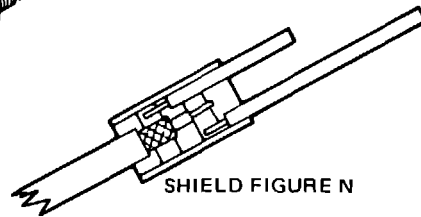
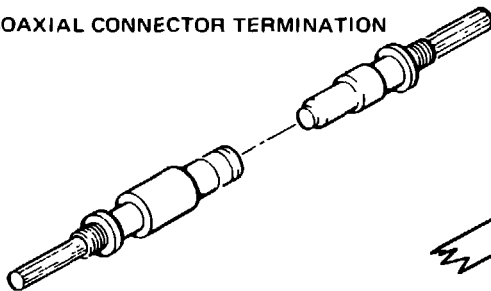


SHIELD FIGURE X

SHIELDED WIRE  
PIGTAILS-HYBRID

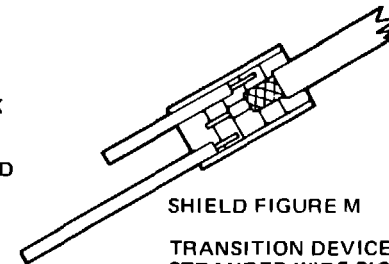
SHIELD FIGURE Z

COAXIAL CONNECTOR TERMINATION



SHIELD FIGURE N

TRANSITION DEVICE WITH  
SOLID WIRE PIGTAILS



SHIELD FIGURE M

TRANSITION DEVICE WITH  
STRANDED WIRE PIGTAILS

Drawing No.  
WL1-281451  
Rev. E., sheet 4

DRAWING NUMBER WL10281451

CONNECTOR UNIT ASSEMBLY NO. 10281451

REV E INDEX

UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

FILE IDENT

TSQ3MTS2

DATE 09-01-82 PAGE 5

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CNT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND DR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	LINE	PREFIX	CONNECTOR	PIN	LINE	MULTI GROUP	CODE	COLOR	IDENT											
02953		J2101	01							168	9		HBC10B1	03				FTH					
03448		J2101	02										SPP	01				FTH					
02956		J2101	03							168	9		HBC1181	03				FTH					
02959		J2101	04							168	9		HBC1281	03				FTH					
02962		J2101	05							168	9		HBC1381	03				FTH					
02966		J2101	06							168	9		HBC1481	04				FTH					
02968		J2101	07							168	9		HBC1581	02				FTH					
03032		J2101	08										SPP	01				FTH					
03018		J2101	09							168	9		HBHA10V	03				FTH					B01
03041		J2101	10							168	9		HBTE3A	05				FTH					
03015		J2101	11							168	9		HBFE0	03				FTH					
03449		J2101	12										SPP	01				FTH					
03044		J2101	13							168	9		HBHAHS	03				FTH					A04
03046		J2101	14							168	9		HBT4COV	02				FTH					C01
03020		J2101	15							168	9		HBKBI5V1	02				FTH					
03450		J2101	16										SPP	01				FTH					
03022		J2101	17							168	9		HBKBI6V1	02				FTH					
03024		J2101	18							168	9		HBKBI7V1	02				FTH					
03026		J2101	19							168	9		HBKBI8V1	02				FTH					
02919		J2101	20		J2106	53				168	9		HBCKBA	01				FTH					A06
03451		J2101	21										SPP	01				FTH					
02874		J2101	22							168	9		HAT183E	02				FTH					C01
03036		J2101	23							168	9		HBSAKAV	04				FTH					
02969		J2101	24		J2106	42				168	9		HBCP1A	01				FTH					
02982		J2101	25							168	9		HBCP2A	07				FTH					
02983		J2101	26		J2108	15				168	9		HBCP3A	01				FTH					A05
02992		J2101	27		J2106	20				168	9		HBCP4A	01				FTH					A05
03452		J2101	28										SPP	01				FTH					
02996		J2101	29		J2109	76				168	9		HBCP5A	02				FTH					A05
03001		J2101	30							168	9		HBCP6A	05				FTH					
02934		J2101	31							168	9		HBBP1A	02				FTH					
03453		J2101	32										SPP	01				FTH					
02936		J2101	33							168	9		HBBP2A	02				FTH					
02938		J2101	34							168	9		HBBP3A	02				FTH					
03004		J2101	35							168	9		HBCP7A	03				FTH					
03008		J2101	36							168	9		HBCP8A	04				FTH					
03012		J2101	37							168	9		HBCP9A	04				FTH					
01297		J2101	38							168	9		HAFTCOV	02				FTH					A04
02942		J2101	39							168	9		HBCGDAV	04				FTH					
02946		J2101	40							168	9		HBCGEAV	04				FTH					
02950		J2101	41							168	9		HBCGFVAV	04				FTH					
03029		J2101	42							168	9		HBLDCO	03				FTH					
03049		J2101	43							168	9		HBYBP0V	03				FTH					
03454		J2101	44										SPP	01				FTH					
03455		J2101	45		J2109	29				168	9		HBNBCA	01				FTH					A02
03456		J2101	46		J2106	61				168	9		HBCP0A	01				FTH					A05
03457		J2101	47		J2106	47				168	9		HBWAKA	01				FTH					A05
03458		J2101	48										SPP	01				FTH					
03459		J2101	49										SPP	01				FTH					
03460		J2101	50		J2117	34				168	9		HBCPAA	01				FTH					A05
CONNECTOR		J2101	CONTINUED ON THE NEXT PAGE ****																				

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2  
 REV E INDEX J2101  
 DATE 09-01-82 PAGE 6

RECORD NUMBER	FROM				TO				WIRE				SFC INST. #/SEC	SIGNAL	SEQ NO	EQUATION	Y. M.	FACTORY	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT												
03461		J2101	51										SPP	01					FTH					
03462		J2101	52										SPP	01					FTH					
03463		J2101	53										SPP	01					FTH					
03464		J2101	54										SPP	01					FTH					
03465		J2101	55										SPP	01					FTH					
03466		J2101	56							168	9		HACWAA	03				FTH					B01	
03467		J2101	57										SPP	01					FTH					
03468		J2101	58										SPP	01					FTH					
03469		J2101	59										SPP	01					FTH					
03470		J2101	60		J2138	71				168	9		HBLAFO	01					FTH				B01	
03471		J2101	61										SPP	01					FTH					
03472		J2101	62										SPP	01					FTH					
03473		J2101	63										SPP	01					FTH					
03474		J2101	64										SPP	01					FTH					
03475		J2101	65										SPP	01					FTH					
03476		J2101	66										SPP	01					FTH					
03477		J2101	67										SPP	01					FTH					
03478		J2101	68										SPP	01					FTH					
03479		J2101	69										SPP	01					FTH					
03480		J2101	70							168	9		HAFTBQ	02				FTH					C01	
03481		J2101	71										SPP	01					FTH					
03482		J2101	72							168	9		HAFTBP	02				FTH					C01	
03483		J2101	73										SPP	01					FTH					
03484		J2101	74										SPP	01					FTH					
03485		J2101	75							168	9		HAENER	03				FTH					C01	
03486		J2101	76										SPP	01				FTH						
03487		J2101	77										SPP	01				FTH						
03488		J2101	78										SPP	01				FTH						
03489		J2101	79										SPP	01				FTH						
03490		J2101	80							180	2		+05RES	66				FTH					A02	

DRAWING NUMBER WL10281451

CONNECTOR UNIT ASSEMBLY NO. 10281451

REV E INDEX J2102

UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

FILE IDENT

TSQ3M2S2

DATE 09-01-82 PAGE 7

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT											
03051		J2102	01										HCD000	02									
03491		J2102	02										SPP	01									
03053		J2102	03										HCD010	02									
03055		J2102	04										HCD020	02									
03057		J2102	05										HCD030	02									
03059		J2102	06										HCD040	02									
03061		J2102	07										HCD050	02									
03063		J2102	08										HCD060	02									
03065		J2102	09										HCD070	02									
03067		J2102	10										HCD080	02									
03069		J2102	11										HCD090	02									
03492		J2102	12										SPP	01									
03071		J2102	13										HCD100	02									
03073		J2102	14										HCD110	02									
03075		J2102	15										HCD120	02									
03493		J2102	16										SPP	01									
03077		J2102	17										HCD130	02									
03079		J2102	18										HCD140	02									
03081		J2102	19										HCD150	02									
03083		J2102	20										HCD160	02									
03085		J2102	21										HCD170	02									
03087		J2102	22										HCD180	02									
03089		J2102	23										HCD190	02									
03091		J2102	24										HCD200	02									
03093		J2102	25										HCD210	02									
03095		J2102	26										HCD220	02									
03097		J2102	27										HCD230	02									
03494		J2102	28										SPP	01									
03099		J2102	29										HCD240	02									
03101		J2102	30										HCD250	02									
03103		J2102	31										HCD260	02									
03495		J2102	32										SPP	01									
03105		J2102	33										HCD270	02									
03107		J2102	34										HCD280	02									
03109		J2102	35										HCD290	02									
03111		J2102	36										HCD300	02									
03113		J2102	37										HCD310	02									
03115		J2102	38										HCD320	02									
03117		J2102	39										HCD330	02									
03119		J2102	40										HCD340	02									
03121		J2102	41										HCD350	02									
03123		J2102	42										HCD360	02									
03125		J2102	43										HCD370	02									
03496		J2102	44										SPP	01									
03127		J2102	45										HCD380	02									
03129		J2102	46										HCD390	02									
03131		J2102	47										HCD400	02									
03133		J2102	48										HCD410	02									
03135		J2102	49										HCD420	02									
03137		J2102	50										HCD430	02									
CONNECTOR J2102 CONTINUED ON THE NEXT PAGE ****																							

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX J2102  
 DATE 09-01-82 PAGE 8

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	T.C. 1	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	LINE	PREFIX	CONNECTOR	PIN	LINE	SIZE	MULTI GROUP	CODE	COLOR											
03139	J2102	51								168	9		HCD440	02				EXT					
03141	J2102	52								168	9		HCD450	02				EXT					
03143	J2102	53								168	9		HCD460	02				EXT					
03145	J2102	54								168	9		HCD470	02				EXT					
03147	J2102	55								168	9		HCD480	02				EXT					
03149	J2102	56								168	9		HCD490	02				EXT					
03151	J2102	57								168	9		HCD500	02				EXT					
03497	J2102	58											SPP	01				EXT					
03153	J2102	59								168	9		HCD510	02				EXT					
03155	J2102	60								168	9		HCD520	02				EXT					
03157	J2102	61								168	9		HCD530	02				EXT					
03159	J2102	62								168	9		HCD540	02				EXT					
03161	J2102	63								168	9		HCD550	02				EXT					
03163	J2102	64								168	9		HCD560	02				EXT					
03165	J2102	65								168	9		HCD570	02				EXT					
03167	J2102	66								168	9		HCD580	02				EXT					
03498	J2102	67											SPP	01				EXT					
03169	J2102	68								168	9		HCD590	02				EXT					
03171	J2102	69								168	9		HCD600	02				EXT					
03173	J2102	70								168	9		HCD610	02				EXT					
03175	J2102	71								168	9		HCD620	02				EXT					
03177	J2102	72								168	9		HCD630	02				EXT					
03179	J2102	73								168	9		HCD640	02				EXT					
03181	J2102	74								168	9		HCD650	02				EXT					
03183	J2102	75								168	9		HCD660	02				EXT					
03185	J2102	76								168	9		HCD670	02				EXT					
03187	J2102	77								168	9		HCD680	02				EXT					
03189	J2102	78								168	9		HCD690	02				EXT					
03191	J2102	79								168	9		HCD700	02				EXT					
03193	J2102	80								168	9		HCD710	02				EXT					



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2  
 REV E INDEX J2103  
 DATE 09-01-82 PAGE 9

RECORD NUMBER	FROM				TO				WIRE				SFC INST MISC	SIGNAL	SEQ NO	EQUATION	TURN	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	TERMIN	PREFIX	CONNECTOR	PIN	EM TO	MULTI GROUP	CODE	COLOR	IDENT										AND	OR		
02643		J2103	01							168	9		HAP01D	02	HADM1Z	01	1	EXT							
03499		J2103	02										SPP	01				EXT							
02645		J2103	03							168	9		HAP02D	02	HADM1Z	01	2	EXT							
02647		J2103	04							168	9		HAP03D	02	HADM1Z	01	3	EXT							
02649		J2103	05							168	9		HAP04D	02	HADM1Z	01	4	EXT							
02651		J2103	06							168	9		HAP05D	02	HADM1Z	01	5	EXT							
02653		J2103	07							168	9		HAP06D	02	HADM1Z	01	6	EXT							
02655		J2103	08							168	9		HAP07D	02	HADM1Z	01	7	EXT							
02657		J2103	09							168	9		HAP08D	02	HADM1Z	01	8	EXT							
02659		J2103	10							168	9		HAP09D	02	HADM1Z	02	1	EXT							
02661		J2103	11							168	9		HAP10D	02	HADM1Z	02	2	EXT							
03500		J2103	12										SPP	01				EXT							
02663		J2103	13							168	9		HAP11D	02	HADM1Z	02	3	EXT							
02665		J2103	14							168	9		HAP12D	02	HADM1Z	02	4	EXT							
02667		J2103	15							168	9		HAP13D	02	HADM1Z	02	5	EXT							
03501		J2103	16										SPP	01				EXT							
02669		J2103	17							168	9		HAP14D	02	HADM1Z	02	6	EXT							
02671		J2103	18							168	9		HAP15D	02	HADM1Z	02	7	EXT							
02673		J2103	19							168	9		HAP16D	02	HADM1Z	02	8	EXT							
02675		J2103	20							168	9		HAP17D	02	HADM1Z	03	1	EXT							
02677		J2103	21							168	9		HAP18D	02	HADM1Z	03	2	EXT							
02679		J2103	22							168	9		HAP19D	02	HADM1Z	03	3	EXT							
02681		J2103	23							168	9		HAP20D	02	HADM1Z	03	4	EXT							
02683		J2103	24							168	9		HAP21D	02	HADM1Z	03	5	EXT							
02685		J2103	25							168	9		HAP22D	02	HADM1Z	03	6	EXT							
02687		J2103	26							168	9		HAP23D	02	HADM1Z	03	7	EXT							
02689		J2103	27							168	9		HAP24D	02	HADM1Z	03	8	EXT							
03502		J2103	28										SPP	01				EXT							
02691		J2103	29							168	9		HAP25D	02	HADM1Z	04	1	EXT							
02693		J2103	30							168	9		HAP26D	02	HADM1Z	04	2	EXT							
02695		J2103	31							168	9		HAP27D	02	HADM1Z	04	3	EXT							
03503		J2103	32										SPP	01				EXT							
02697		J2103	33							168	9		HAP28D	02	HADM1Z	04	4	EXT							
02699		J2103	34							168	9		HAP29D	02	HADM1Z	04	5	EXT							
02701		J2103	35							168	9		HAP30D	02	HADM1Z	04	6	EXT							
02703		J2103	36							168	9		HAP31D	02	HADM1Z	04	7	EXT							
02705		J2103	37							168	9		HAP32D	02	HADM1Z	04	8	EXT							
02707		J2103	38							168	9		HAP33D	02	HADM1Z	05	1	EXT							
02709		J2103	39							168	9		HAP34D	02	HADM1Z	05	2	EXT							
02711		J2103	40							168	9		HAP35D	02	HADM1Z	05	3	EXT							
02713		J2103	41							168	9		HAP36D	02	HADM1Z	05	4	EXT							
02715		J2103	42							168	9		HAP37D	02	HADM1Z	05	5	EXT							
02717		J2103	43							168	9		HAP38D	02	HADM1Z	05	6	EXT							
03504		J2103	44										SPP	01				EXT							
02719		J2103	45							168	9		HAP39D	02	HADM1Z	05	7	EXT							
02721		J2103	46							168	9		HAP40D	02	HADM1Z	05	8	EXT							
02723		J2103	47							168	9		HAP41D	02	HADM1Z	06	1	EXT							
02725		J2103	48							168	9		HAP42D	02	HADM1Z	06	2	EXT							
02727		J2103	49							168	9		HAP43D	02	HADM1Z	06	3	EXT							
02729		J2103	50							168	9		HAP44D	02	HADM1Z	06	4	EXT							
CONNECTOR J2103 CONTINUED ON THE NEXT PAGE ****																									

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX J2103  
 DATE 09-01-82 PAGE 10

RECORD NUMBER	FROM				TO				WIRE			SFC INST. USE	SIGNAL	SEQ NO	EQUATION	T. FACTOR	CKT OR CHIP TYPE	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	INFO	PREFIX	CONNECTOR	PIN	INFO	MULTI GROUP	CODE	COLOR										
02731	J2103	51								168	9		HAP45D	02	HADM1Z	06	5	EXT			
02733	J2103	52								168	9		HAP46D	02	HADM1Z	06	6	EXT			
02735	J2103	53								168	9		HAP47D	02	HADM1Z	06	7	EXT			
02737	J2103	54								168	9		HAP48D	02	HADM1Z	06	8	EXT			
02739	J2103	55								168	9		HAP49D	02	HADM1Z	07	1	EXT			
02741	J2103	56								168	9		HAP50D	02	HADM1Z	07	2	EXT			
02743	J2103	57								168	9		HAP51D	02	HADM1Z	07	3	EXT			
03505	J2103	58											SPP	01				EXT			
02745	J2103	59								168	9		HAP52D	02	HADM1Z	07	4	EXT			
02747	J2103	60								168	9		HAP53D	02	HADM1Z	07	5	EXT			
02749	J2103	61								168	9		HAP54D	02	HADM1Z	07	6	EXT			
02751	J2103	62								168	9		HAP55D	02	HADM1Z	07	7	EXT			
02753	J2103	63								168	9		HAP56D	02	HADM1Z	07	8	EXT			
02755	J2103	64								168	9		HAP57D	02	HADM1Z	08	1	EXT			
02757	J2103	65								168	9		HAP58D	02	HADM1Z	08	2	EXT			
02759	J2103	66								168	9		HAP59D	02	HADM1Z	08	3	EXT			
03506	J2103	67											SPP	01				EXT			
02761	J2103	68								168	9		HAP60D	02	HADM1Z	08	4	EXT			
02763	J2103	69								168	9		HAP61D	02	HADM1Z	08	5	EXT			
02765	J2103	70								168	9		HAP62D	02	HADM1Z	08	6	EXT			
02767	J2103	71								168	9		HAP63D	02	HADM1Z	08	7	EXT			
02769	J2103	72								168	9		HAP64D	02	HADM1Z	08	8	EXT			
02771	J2103	73								168	9		HAP65D	02	HADM1Z	09	1	EXT			
02773	J2103	74								168	9		HAP66D	02	HADM1Z	09	2	EXT			
02775	J2103	75								168	9		HAP67D	02	HADM1Z	09	3	EXT			
02777	J2103	76								168	9		HAP68D	02	HADM1Z	09	4	EXT			
02779	J2103	77								168	9		HAP69D	02	HADM1Z	09	5	EXT			
02781	J2103	78								168	9		HAP70D	02	HADM1Z	09	6	EXT			
02783	J2103	79								168	9		HAP71D	02	HADM1Z	09	7	EXT			
02785	J2103	80								168	9		HAP72D	02	HADM1Z	09	8	EXT			

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2  
 REV E INDEX J2104  
 DATE 09-01-82 PAGE 11

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	CKT OR CHIP TYPE	GRP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT										
01745	J2104	01							168	9		HAG010V	03	HADM2Z	01	1	EXT					
03507	J2104	02										SPP	01				EXT					
01750	J2104	03							168	9		HAG020V	03	HADM2Z	01	2	EXT					
01755	J2104	04							168	9		HAG030V	03	HADM2Z	01	3	EXT					
01760	J2104	05							168	9		HAG040V	03	HADM2Z	01	4	EXT					
01765	J2104	06							168	9		HAG050V	03	HADM2Z	01	5	EXT					
01770	J2104	07							168	9		HAG060V	03	HADM2Z	01	6	EXT					
01775	J2104	08							168	9		HAG070V	03	HADM2Z	01	7	EXT					
01780	J2104	09							168	9		HAG080V	03	HADM2Z	01	8	EXT					
01785	J2104	10							168	9		HAG090V	03	HADM2Z	02	1	EXT					
01790	J2104	11							168	9		HAG100V	03	HADM2Z	02	2	EXT					
03508	J2104	12										SPP	01				EXT					
01795	J2104	13							168	9		HAG110V	03	HADM2Z	02	3	EXT					
01800	J2104	14							168	9		HAG120V	03	HADM2Z	02	4	EXT					
01805	J2104	15							168	9		HAG130V	03	HADM2Z	02	5	EXT					
03509	J2104	16										SPP	01				EXT					
01810	J2104	17							168	9		HAG140V	03	HADM2Z	02	6	EXT					
01815	J2104	18							168	9		HAG150V	03	HADM2Z	02	7	EXT					
01820	J2104	19							168	9		HAG160V	03	HADM2Z	02	8	EXT					
01825	J2104	20							168	9		HAG170V	03	HADM2Z	03	1	EXT					
01830	J2104	21							168	9		HAG180V	03	HADM2Z	03	2	EXT					
01835	J2104	22							168	9		HAG190V	03	HADM2Z	03	3	EXT					
01840	J2104	23							168	9		HAG200V	03	HADM2Z	03	4	EXT					
01845	J2104	24							168	9		HAG210V	03	HADM2Z	03	5	EXT					
01850	J2104	25							168	9		HAG220V	03	HADM2Z	03	6	EXT					
01855	J2104	26							168	9		HAG230V	03	HADM2Z	03	7	EXT					
01860	J2104	27							168	9		HAG240V	03	HADM2Z	03	8	EXT					
03510	J2104	28										SPP	01				EXT					
01865	J2104	29							168	9		HAG250V	03	HADM2Z	04	1	EXT					
01870	J2104	30							168	9		HAG260V	03	HADM2Z	04	2	EXT					
01875	J2104	31							168	9		HAG270V	03	HADM2Z	04	3	EXT					
03511	J2104	32										SPP	01				EXT					
01880	J2104	33							168	9		HAG280V	03	HADM2Z	04	4	EXT					
01885	J2104	34							168	9		HAG290V	03	HADM2Z	04	5	EXT					
01890	J2104	35							168	9		HAG300V	03	HADM2Z	04	6	EXT					
01895	J2104	36							168	9		HAG310V	03	HADM2Z	04	7	EXT					
01900	J2104	37							168	9		HAG320V	03	HADM2Z	04	8	EXT					
01905	J2104	38							168	9		HAG330V	03	HADM2Z	05	1	EXT					
01910	J2104	39							168	9		HAG340V	03	HADM2Z	05	2	EXT					
01915	J2104	40							168	9		HAG350V	03	HADM2Z	05	3	EXT					
01920	J2104	41							168	9		HAG360V	03	HADM2Z	05	4	EXT					
01925	J2104	42							168	9		HAG370V	03	HADM2Z	05	5	EXT					
01930	J2104	43							168	9		HAG380V	03	HADM2Z	05	6	EXT					
03512	J2104	44										SPP	01				EXT					
01935	J2104	45							168	9		HAG390V	03	HADM2Z	05	7	EXT					
01940	J2104	46							168	9		HAG400V	03	HADM2Z	05	8	EXT					
01945	J2104	47							168	9		HAG410V	03	HADM2Z	06	1	EXT					
01950	J2104	48							168	9		HAG420V	03	HADM2Z	06	2	EXT					
01955	J2104	49							168	9		HAG430V	03	HADM2Z	06	3	EXT					
01960	J2104	50							168	9		HAG440V	03	HADM2Z	06	4	EXT					
CONNECTOR J2104 CONTINUED ON THE NEXT PAGE ****																						

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX J2104  
 DATE 09-01-82 PAGE 12

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	T L	FACTORY	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	LINE	PREFIX	CONNECTOR	PIN	LINE	MULTI GROUP	CODE	COLOR	IDENT											
01965		J2104	51							168	9		HAG450V	03	HADM22	06	5	EXT					
01970		J2104	52							168	9		HAG460V	03	HADM22	06	6	EXT					
01975		J2104	53							168	9		HAG470V	03	HADM22	06	7	EXT					
01980		J2104	54							168	9		HAG480V	03	HADM22	06	8	EXT					
01985		J2104	55							168	9		HAG490V	03	HADM22	07	1	EXT					
01990		J2104	56							168	9		HAG500V	03	HADM22	07	2	EXT					
01995		J2104	57							168	9		HAG510V	03	HADM22	07	3	EXT					
03513		J2104	58									SPP	01					EXT					
02000		J2104	59							168	9		HAG520V	03	HADM22	07	4	EXT					
02005		J2104	60							168	9		HAG530V	03	HADM22	07	5	EXT					
02010		J2104	61							168	9		HAG540V	03	HADM22	07	6	EXT					
02015		J2104	62							168	9		HAG550V	03	HADM22	07	7	EXT					
02020		J2104	63							168	9		HAG560V	03	HADM22	07	8	EXT					
02025		J2104	64							168	9		HAG570V	03	HADM22	08	1	EXT					
02030		J2104	65							168	9		HAG580V	03	HADM22	08	2	EXT					
02035		J2104	66							168	9		HAG590V	03	HADM22	08	3	EXT					
03514		J2104	67									SPP	01					EXT					
02040		J2104	68							168	9		HAG600V	03	HADM22	08	4	EXT					
02045		J2104	69		J2106	49				168	9		HAG610V	03	HADM22	08	5	EXT				A05	
02050		J2104	70							168	9		HAG620V	03	HADM22	08	6	EXT					
02055		J2104	71							168	9		HAG630V	03	HADM22	08	7	EXT					
02060		J2104	72							168	9		HAG640V	03	HADM22	08	8	EXT					
02065		J2104	73		J2109	36				168	9		HAG650V	03	HADM22	09	1	EXT				A05	
02070		J2104	74		J2109	37				168	9		HAG660V	03	HADM22	09	2	EXT				A05	
02075		J2104	75							168	9		HAG670V	03	HADM22	09	3	EXT					
02080		J2104	76							168	9		HAG680V	03	HADM22	09	4	EXT					
02085		J2104	77							168	9		HAG690V	03	HADM22	09	5	EXT					
02090		J2104	78							168	9		HAG700V	03	HADM22	09	6	EXT					
02095		J2104	79							168	9		HAG710V	03	HADM22	09	7	EXT					
02100		J2104	80		J2109	49				168	9		HAG720V	03	HADM22	09	8	EXT				A05	

DRAWING NUMBER WL10281451

CONNECTOR UNIT ASSEMBLY NO. 10281451

REV E INDEX J2105

UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

FILE IDENT

TSQ3M2S2

DATE 09-01-82 PAGE 13

RECORD NUMBER	FROM			TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CON. FROM	PIN	SIZE	MULTI GROUP	CODE	CLASS								NOTES	AND		
02182		J2105	01					168	9		HAH011V1	04	HADM32	01	1	EXT					
02186		J2105	02					168	9		HAH012V1	04	HADM32	01	2	EXT					
02190		J2105	03					168	9		HAH013V1	04	HADM32	01	3	EXT					
02194		J2105	04					168	9		HAH014V1	04	HADM32	01	4	EXT					
02198		J2105	05					168	9		HAH015V1	04	HADM32	01	5	EXT					
02202		J2105	06					168	9		HAH016V1	04	HADM32	01	6	EXT					
02206		J2105	07					168	9		HAH017V1	04	HADM32	01	7	EXT					
02210		J2105	08					168	9		HAH018V1	04	HADM32	01	8	EXT					
02214		J2105	09					168	9		HAH021V1	04	HADM32	02	1	EXT					
02218		J2105	10					168	9		HAH022V1	04	HADM32	02	2	EXT					
02222		J2105	11					168	9		HAH023V1	04	HADM32	02	3	EXT					
02226		J2105	12					168	9		HAH024V1	04	HADM32	02	4	EXT					
02230		J2105	13					168	9		HAH025V1	04	HADM32	02	5	EXT					
02234		J2105	14					168	9		HAH026V1	04	HADM32	02	6	EXT					
02238		J2105	15					168	9		HAH027V1	04	HADM32	02	7	EXT					
02242		J2105	16					168	9		HAH028V1	04	HADM32	02	8	EXT					
02246		J2105	17					168	9		HAH031V1	04	HADM32	03	1	EXT					
02250		J2105	18					168	9		HAH032V1	04	HADM32	03	2	EXT					
02254		J2105	19					168	9		HAH033V1	04	HADM32	03	3	EXT					
02258		J2105	20					168	9		HAH034V1	04	HADM32	03	4	EXT					
02262		J2105	21					168	9		HAH035V1	04	HADM32	03	5	EXT					
02266		J2105	22					168	9		HAH036V1	04	HADM32	03	6	EXT					
02270		J2105	23					168	9		HAH037V1	04	HADM32	03	7	EXT					
02274		J2105	24					168	9		HAH038V1	04	HADM32	03	8	EXT					
02278		J2105	25					168	9		HAH041V1	04	HADM32	04	1	EXT					
02282		J2105	26					168	9		HAH042V1	04	HADM32	04	2	EXT					
02286		J2105	27					168	9		HAH043V1	04	HADM32	04	3	EXT					
02290		J2105	28					168	9		HAH044V1	04	HADM32	04	4	EXT					
02294		J2105	29					168	9		HAH045V1	04	HADM32	04	5	EXT					
02298		J2105	30					168	9		HAH046V1	04	HADM32	04	6	EXT					
02302		J2105	31					168	9		HAH047V1	04	HADM32	04	7	EXT					
02306		J2105	32					168	9		HAH048V1	04	HADM32	04	8	EXT					
02310		J2105	33					168	9		HAH051V1	04	HADM32	05	1	EXT					
02314		J2105	34					168	9		HAH052V1	04	HADM32	05	2	EXT					
02318		J2105	35					168	9		HAH053V1	04	HADM32	05	3	EXT					
02322		J2105	36					168	9		HAH054V1	04	HADM32	05	4	EXT					
02326		J2105	37					168	9		HAH055V1	04	HADM32	05	5	EXT					
02330		J2105	38					168	9		HAH056V1	04	HADM32	05	6	EXT					
02334		J2105	39					168	9		HAH057V1	04	HADM32	05	7	EXT					
02338		J2105	40					168	9		HAH058V1	04	HADM32	05	8	EXT					
02342		J2105	41					168	9		HAH061V1	04	HADM32	06	1	EXT					
02346		J2105	42					168	9		HAH062V1	04	HADM32	06	2	EXT					
02350		J2105	43					168	9		HAH063V1	04	HADM32	06	3	EXT					
02354		J2105	44					168	9		HAH064V1	04	HADM32	06	4	EXT					
02358		J2105	45					168	9		HAH065V1	04	HADM32	06	5	EXT					
02362		J2105	46					168	9		HAH066V1	04	HADM32	06	6	EXT					
02366		J2105	47					168	9		HAH067V1	04	HADM32	06	7	EXT					
02370		J2105	48					168	9		HAH068V1	04	HADM32	06	8	EXT					
02374		J2105	49					168	9		HAH071V1	04	HADM32	07	1	EXT					
02378		J2105	50					168	9		HAH072V1	04	HADM32	07	2	EXT					
CONNECTOR		J2105	CONTINUED ON THE NEXT PAGE ****																		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MSTS2

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RECORD NUMBER	FROM			TO			WAVE	SIGNAL	EQUATIO	3 3 3	EXT	LOAD OR POWER PLANT	TEXT PCN 5	SIGNAL DESCRIPTION	ECO NO
	PREF #	CONNECTOR	PIN	PREF #	CONNECTOR	PIN									
02382	J2105	51					168 9	HAAH073V1 04	HADM3Z 07 3	EXT					
02386	J2105	52					168 9	HAAH074V1 04	HADM3Z 07 4	EXT					
02390	J2105	53					168 9	HAAH075V1 04	HADM3Z 07 5	EXT					
02394	J2105	54					168 9	HAAH076V1 04	HADM3Z 07 6	EXT					
02398	J2105	55					168 9	HAAH077V1 04	HADM3Z 07 7	EXT					
02402	J2105	56					168 9	HAAH078V1 04	HADM3Z 07 8	EXT					
02406	J2105	57					168 9	HAAH081V1 04	HADM3Z 08 1	EXT					
02410	J2105	58					168 9	HAAH082V1 04	HADM3Z 08 2	EXT					
02414	J2105	59					168 9	HAAH083V1 04	HADM3Z 08 3	EXT					
02418	J2105	60					168 9	HAAH084V1 04	HADM3Z 08 4	EXT					
02421	J2105	61					168 9	HAAH085V1 03	HADM3Z 08 5	EXT					
02425	J2105	62					168 9	HAAH086V1 04	HADM3Z 08 6	EXT					
02429	J2105	63					168 9	HAAH087V1 04	HADM3Z 08 7	EXT					
02433	J2105	64					168 9	HAAH088V1 04	HADM3Z 08 8	EXT					
02437	J2105	65					168 9	HAAH091V1 04	HADM3Z 09 1	EXT					
02441	J2105	66					168 9	HAAH092V1 04	HADM3Z 09 2	EXT					
02444	J2105	67					168 9	HAAH093V1 04	HADM3Z 09 3	EXT				A01	
02448	J2105	68					168 9	HAAH094V1 04	HADM3Z 09 4	EXT					
02452	J2105	69					168 9	HAAH095V1 04	HADM3Z 09 5	EXT					
02456	J2105	70					168 9	HAAH096V1 04	HADM3Z 09 6	EXT					
02460	J2105	71					168 9	HAAH097V1 04	HADM3Z 09 7	EXT					
02461	J2105	72		J2113	78		168 9	HAAH098V1 01	HADM3Z 09 8	EXT				A01	
02103	J2105	73					168 9	HAAH0A0AV 03	HADM3Z 10 1	EXT					
02116	J2105	74					168 9	HAAH1AV 03	HADM3Z 10 2	EXT					
02129	J2105	75					168 9	HAAH2AV 03	HADM3Z 10 3	EXT					
02142	J2105	76					168 9	HAAH3AV 03	HADM3Z 10 4	EXT					
02155	J2105	77					168 9	HAAH4AV 03	HADM3Z 10 5	EXT					
02168	J2105	78					168 9	HAAH5AV 03	HADM3Z 10 6	EXT					
03515	J2105	79						SPP	01						
03516	J2105	80						SPP	01						

DRAWING NUMBER WL10281451

CONNECTOR UNIT ASSEMBLY NO. 10281451

REV E INDEX J2106

UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

FILE IDENT

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RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	LEN	PREFIX	CONNECTOR	PIN	LEN	EN FE	MULTI GROUP	CODE	COLOR											
00722		J2106	01							168	9		HADAB0	03	HADAB0	00	1	TQ2	A2		02B		
00349		J2106	02									GND	01					TQ2				01A	
02469		J2106	03							168	9	HAIABA	02	HADACO	01	1	TQ2	A3				07A	
02547		J2106	04							168	9	HAI01AV	02	HADAB0	01	1	TQ2	A2				04A	
01749		J2106	05		J2104	03				168	9	HAG020V	02	HADAB0	01	2	TQ2	A2				03B	
00717		J2106	06							168	9	HADAA0	03	HADAA0	00	1	TQ2	A1				05A	
01754		J2106	07		J2104	04				168	9	HAG030V	02	HADAC0	01	2	TQ2	A3				03A	
02467		J2106	08							168	9	HAIAAA	02	HADAA0	01	1	TQ2	A1				06A	
00727		J2106	09							168	9	HADACO	03	HADACO	00	1	TQ2	A3				04B	
01744		J2106	10		J2104	01				168	9	HAG010V	02	HADAA0	01	2	TQ2	A1				07A	
02471		J2106	11							168	9	HAIACA	02	HADAE0	01	1	TQ2	A4				05B	
00065		J2106	12									+5V	01				TQ2						
01764		J2106	13		J2104	06				168	9	HAG050V	02	HADAE0	01	2	TQ2	A4				06B	
03610		J2106	14		J2109	68				168	9	HAI08A	00	HAI08A	00	1	TQ2	B2				09A	A05
00737		J2106	15							168	9	HADAE0	03	HADAE0	00	1	TQ2	A4				07B	
00350		J2106	16									GND	01				TQ2					01B	
03235		J2106	17							168	9	HAD080E	02	HAI14A	01	1	TQ2	B3				08B	A05
03234		J2106	18							168	9	HAD050E	02	HAI08A	01	1	TQ2	B2				10A	A05
03244		J2106	19		J2106	26				168	9	HBCP4A	03	HAI14A	01	2	TQ2	B3				09B	A05
03243		J2106	20		J2106	19				168	9	HBCP4A	02	HAI08A	01	2	TQ2	B2				11A	A05
03611		J2106	21		J2111	24				168	9	HAI14A	01	HAI14A	00	1	TQ2	B3				10B	A05
03612		J2106	22		J2111	68				168	9	HAI19A	01	HAI19A	00	1	TQ2	B1				12A	A05
03236		J2106	23							168	9	HAD140E	02	HAI23A	01	1	TQ2	B4				11B	A05
03237		J2106	24							168	9	HAD110E	02	HAI19A	01	1	TQ2	B1				13A	A05
03245		J2106	25		J2106	37				168	9	HBCP4A	05	HAI23A	01	2	TQ2	B4				12B	A05
03246		J2106	26		J2106	25				168	9	HBCP4A	04	HAI19A	01	2	TQ2	B1				14A	A05
03613		J2106	27		J2115	24				168	9	HAI23A	01	HAI23A	00	1	TQ2	B4				13B	A05
00066		J2106	28									+5V	01				TQ2						
01129		J2106	29		J2118	26				168	9	SPI027	02			01	1	TQ2	C3			14B	A05
02475		J2106	30									SPO	01			00	1	TQ2	C2			15A	A05
02995		J2106	31		J2118	33				168	9	SPI028	06			01	2	TQ2	C3			15B	A05
00351		J2106	32									GND	01				TQ2					20B	
02477		J2106	33									SPO	01			00	1	TQ2	C3			16B	A05
01127		J2106	34		J2106	29				168	9	SPI027	01			01	1	TQ2	C2			16A	A05
03233		J2106	35							168	9	HAD180E	02	HAI29A	01	1	TQ2	C4				17B	A05
02985		J2106	36		J2106	31				168	9	SPI028	05			01	2	TQ2	C2			17A	A05
03242		J2106	37							168	9	HBCP4A	06	HAI29A	01	2	TQ2	C4				18B	A05
02473		J2106	38							168	9	HAIADA	02	HAIADA	00	1	TQ2	C1				18A	
03614		J2106	39		J2115	77				168	9	HAI29A	01	HAI29A	00	1	TQ2	C4				19B	A05
01125		J2106	40							168	9	HAD021E	02	HAIADA	01	1	TQ2	C1				19A	
02555		J2106	41							168	9	HAI05A	02	HADALO	01	1	TQ2	D3				22B	
02970		J2106	42		J2117	46				168	9	HBCP1A	02	HAIADA	01	2	TQ2	C1				20A	
01799		J2106	43		J2104	14				168	9	HAG120V	02	HADALO	01	2	TQ2	D3				23B	
00352		J2106	44									GND	01				TQ2					21B	
00772		J2106	45							168	9	HADALO	03	HADALO	00	1	TQ2	D3				24B	
00767		J2106	46							168	9	HADAKO	03	HADAKO	00	1	TQ2	D2				21A	
03232		J2106	47		J2109	34				168	9	HAWAKA	02	HAGM1A	01	1	TQ2	D4				25B	A05
02479		J2106	48							168	9	HAIAGA	02	HADAKO	01	1	TQ2	D2				22A	
03241		J2106	49							168	9	HAG610V	04	HAGM1A	01	2	TQ2	D4				26B	A05
01794		J2106	50		J2104	13				168	9	HAG110V	02	HADAKO	01	2	TQ2	D2				23A	
CONNECTOR	J2106	CONTINUED ON THE NEXT PAGE ****																					

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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RECORD NUMBER	FROM			SIGNAL	SVC NO	FUNCTION	L	Z	EXT. PIN TYPE	GROUP	NO. OR HOR. PLANE	TEST POINTS	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN											
03615		J2106	51	HAGM1A	01	HAGM1A	00	1	TQ2	D4		27B		A05
00762		J2106	52	HADAJO	03	HADAJO	00	1	TQ2	D1		24A		
01151		J2106	53	HBCKBA	02	HAI15A	01	1	TQ2	E3		28B		C02
02553		J2106	54	HAI04AV	02	HADAJO	01	1	TQ2	D1		25A		
02984		J2106	55	HAD090E	02	HAI15A	01	2	TQ2	E3		29B		C02
01789		J2106	56	HAG100V	02	HADAJO	01	2	TQ2	D1		26A		
02487		J2106	57	HAI15A	01	HAI15A	00	1	TQ2	E3		30B		C02
00353		J2106	58	GND	01				TQ2			27A		
01153		J2106	59	HAD053E	02	HAI1A	01	1	TQ2	E4		31B		
00782		J2106	60	HADANO	03	HADANO	00	1	TQ2	E2		28A		
02991		J2106	61	HBCP0A	02	HAI1A	01	2	TQ2	E4		32B		A05
02557		J2106	62	HAI06A	02	HADANO	01	1	TQ2	E2		29A		A02
02489		J2106	63	HAI1A	02	HAI1A	00	1	TQ2	E4		33B		
01809		J2106	64	HAG140V	02	HADANO	01	2	TQ2	E2		30A		
02491		J2106	65	HAI6AA	02	HADB0	01	1	TQ2	F3		34B		
00777		J2106	66	HADAMO	03	HADAMO	00	1	TQ2	E1		31A		
00354		J2106	67	GND	01				TQ2			40A		
02481		J2106	68	HAI1A	02	HADANO	01	1	TQ2	E1		32A		
00827		J2106	69	HADB0	03	HADB0	00	1	TQ2	F3		35A		
01804		J2106	70	HAG130V	02	HADAMO	01	2	TQ2	E1		33A		
02565		J2106	71	HAI10AV	02	HADB80	01	1	TQ2	F2		36A		
00822		J2106	72	HADB80	03	HADB80	00	1	TQ2	F2		34A		
01849		J2106	73	HAG220V	02	HADB80	01	2	TQ2	F2		36B		
01854		J2106	74	HAG230V	02	HADB0	01	2	TQ2	F3		35B		
00817		J2106	75	HADB80	03	HADB80	00	1	TQ2	F1		37B		
01161		J2106	76	HAD063E	02	HAI11A	01	1	TQ2	F4		37A		
02583		J2106	77	HAI09AV	02	HADB80	01	1	TQ2	F1		38B		
02616		J2106	78	SPI025	05	HAI11A	01	2	TQ2	F4		38A		A05
01844		J2106	79	HAG210V	02	HADB80	01	2	TQ2	F1		39B		
02567		J2106	80	HAI11A	02	HAI11A	00	1	TQ2	F4		39A		





DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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 DATE 09-01-82 PAGE 18

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TE	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT											
02672	J2107	51		J2103	19		168	9				HAP16D	01	HAP16D	00	1	TLD	D4		27B	16(11A)		
02666	J2107	52		J2103	15		168	9				HAP13D	01	HAP13D	00	1	TLD	D1		24A	13(14A)		
00804	J2107	53					168	9				HADATAV	02	HAP19D	01	1	TLD	E3		28B			
00774	J2107	54					168	9				HADANAV	02	HAP13D	01	1	TLD	D1		25A			
02253	J2107	55		J2105	19		168	9				HAH033V1	03	HAP19D	01	2	TLD	E3		29B			
02229	J2107	56		J2105	13		168	9				HAH025V1	03	HAP13D	01	2	TLD	D1		26A			
02678	J2107	57		J2103	22		168	9				HAP19D	01	HAP19D	00	1	TLD	E3		30B	19(8B)		
00359	J2107	58										GND	01				TLD			40A			
00809	J2107	59					168	9				HADAUAV	02	HAP20D	01	1	TLD	E4		31B			
02676	J2107	60		J2103	21		168	9				HAP18D	01	HAP18D	00	1	TLD	E2		28A	18(9A)		
02257	J2107	61		J2105	20		168	9				HAH034V1	03	HAP20D	01	2	TLD	E4		32B			
00799	J2107	62					168	9				HADASAV	02	HAP18D	01	1	TLD	E2		29A			
02680	J2107	63		J2103	23		168	9				HAP20D	01	HAP20D	00	1	TLD	E4		33B	20(9B)		
02249	J2107	64		J2105	18		168	9				HAH032V1	03	HAP18D	01	2	TLD	E2		30A			
00824	J2107	65					168	9				HADBCAV	02	HAP23D	01	1	TLD	F3		34B			
02674	J2107	66		J2103	20		168	9				HAP17D	01	HAP17D	00	1	TLD	E1		31A	17(10A)		
00360	J2107	67										GND	01				TLD						
00794	J2107	68					168	9				HADARAV	02	HAP17D	01	1	TLD	E1		32A			
02686	J2107	69		J2103	26		168	9				HAP23D	01	HAP23D	00	1	TLD	F3		35A	23(12B)		
02245	J2107	70		J2105	17		168	9				HAH031V1	03	HAP17D	01	2	TLD	E1		33A			
00819	J2107	71					168	9				HADBBAV	02	HAP22D	01	1	TLD	F2		36A			
02684	J2107	72		J2103	25		168	9				HAP22D	01	HAP22D	00	1	TLD	F2		34A	22(11B)		
02265	J2107	73		J2105	22		168	9				HAH036V1	03	HAP22D	01	2	TLD	F2		36B			
02269	J2107	74		J2105	23		168	9				HAH037V1	03	HAP23D	01	2	TLD	F3		35B			
02682	J2107	75		J2103	24		168	9				HAP21D	01	HAP21D	00	1	TLD	F1		37B	21(10B)		
00829	J2107	76					168	9				HADBDVAV	02	HAP24D	01	1	TLD	F4		37A			
00814	J2107	77					168	9				HADBAVAV	02	HAP21D	01	1	TLD	F1		38B			
02273	J2107	78		J2105	24		168	9				HAH038V1	03	HAP24D	01	2	TLD	F4		38A			
02261	J2107	79		J2105	21		168	9				HAH035V1	03	HAP21D	01	2	TLD	F1		39B			
02688	J2107	80		J2103	27		168	9				HAP24D	01	HAP24D	00	1	TLD	F4		39A			



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
FILE IDENT

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RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GRUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SH. T. P.	MULTI-GROUP	CODE	COLOR											
00807		J2108	51						168	9		HADAT0	03	HADATAV	01	1	THI	D6		27B	
00781		J2108	52		J2106	60			168	9		HADANO	02	HADANAV	01	1	THI	D1		26A	
00803		J2108	53		J2107	53			168	9		HADATAV	01	HADATAV	00	1	THI	D6		26B	
00778		J2108	54		J2107	48			168	9		HADANAV	01	HADANAV	00	1	THI	D1		25A	
01141		J2108	55		J2106	34			168	9		SPI027	00		01	1	THI	E4		29B	A05
02556		J2108	56									SPO	01		00	1	THI	E4		26B	A02
02559		J2108	57						168	9		HAI07AV	02	HAI07AV	00	1	THI	E5		30B	
00365		J2108	58									GND	01				THI			40A	
01145		J2108	59						168	9		HAD043E	02	HAI07AV	01	1	THI	E5		31B	
02619		J2108	60		J2114	50			168	9		HALDDAV	03	HALDDAV	00	1	THI	E3		26A	A05
01133		J2108	61						168	9		HAD031E	02	HAI04AV	01	1	THI	E2		31A	
03028		J2108	62		J2101	42			168	9		HBLDCO	02	HALDDAV	01	1	THI	E3		29A	
02552		J2108	63		J2106	54			168	9		HAI04AV	01	HAI04AV	00	1	THI	E2		30A	
00812		J2108	64						168	9		HADAU0	03	HADAUAV	01	1	THI	E1		33A	
01147		J2108	65		J2106	39			168	9		HAI29A	00	HAI290V	01	1	THI	E6		33B	B01
00808		J2108	66		J2107	59			168	9		HADAUAV	01	HADAUAV	00	1	THI	E1		32A	
00366		J2108	67									GND	01				THI				
02561		J2108	68	SAE	J2140	54			168	9		HAI290V	01	HAI290V	00	1	THI	E6		32B	B01
00826		J2108	69		J2106	69			168	9		HADBC0	02	HADBCAV	01	1	THI	F3		35B	
00823		J2108	70		J2107	65			168	9		HADBCAV	01	HADBCAV	00	1	THI	F3		34B	
00818		J2108	71		J2107	71			168	9		HADBBAV	01	HADBBAV	00	1	THI	F2		36B	
00828		J2108	72		J2107	76			168	9		HADBDV	01	HADBDV	00	1	THI	F4		34A	
00821		J2108	73		J2106	72			168	9		HADBB0	02	HADBBAV	01	1	THI	F2		37B	
00832		J2108	74						168	9		HADBD0	03	HADBDV	01	1	THI	F4		35A	
01157		J2108	75						168	9		HAD061E	02	HAI10AV	01	1	THI	F6		39A	
01155		J2108	76						168	9		HAD060E	02	HAI09AV	01	1	THI	F5		37A	
02564		J2108	77		J2106	71			168	9		HAI10AV	01	HAI10AV	00	1	THI	F6		36A	
02562		J2108	78		J2106	77			168	9		HAI09AV	01	HAI09AV	00	1	THI	F5		36A	
00816		J2108	79		J2106	75			168	9		HADBA0	02	HADBAAV	01	1	THI	F1		39B	
00813		J2108	80		J2107	77			168	9		HADBAAV	01	HADBAAV	00	1	THI	F1		38B	



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
FILE IDENT

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DATE 09-01-82 PAGE 22

RECORD NUMBER	FROM			TO			WIRE				SFC INST MISC	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PIN	CONNECTOR	PIN	SH FT	MULTI GROUP	CODE	COLOR												
03619	J2109	51										HAGM4A	01	HAGM4A	00	1	TQ2	D4	27B			
00786	J2109	52		J2108	47			168	9			HADAPO	02	HADAPO	00	1	TQ2	D1	24A		A05	
02486	J2109	53		J2135	21			168	9			HATAKA	01	HADATO	01	1	TQ2	E3	28B		A05	
02483	J2109	54						168	9			HAI AIA	02	HADAPO	01	1	TQ2	D1	25A			
01834	J2109	55		J2104	22			168	9			HAG190V	02	HADATO	01	2	TQ2	E3	29B			
01814	J2109	56		J2104	18			168	9			HAG150V	02	HADAPO	01	2	TQ2	D1	26A			
00806	J2109	57		J2108	51			168	9			HADATO	02	HADATO	00	1	TQ2	E3	30B			
00371	J2109	58										GND	01				TQ2		27A			
02488	J2109	59		J2106	63			168	9			HATAA	01	HADAUO	01	1	TQ2	E4	31B			
00801	J2109	60		J2108	45			168	9			HADASO	02	HADASO	00	1	TQ2	E2	28A			
01839	J2109	61		J2104	23			168	9			HAG200V	02	HADAUO	01	2	TQ2	E4	32B			
02485	J2109	62						168	9			HAI AJA	02	HADASO	01	1	TQ2	E2	29A			
00811	J2109	63		J2108	64			168	9			HADAUO	02	HADAUO	00	1	TQ2	E4	33B			
01829	J2109	64		J2104	21			168	9			HAG180V	02	HADASO	01	2	TQ2	E2	30A			
01209	J2109	65						168	9			HAD123E	02	HAI21A	01	1	TQ2	F3	34B			
00796	J2109	66		J2108	41			168	9			HADARO	02	HADARO	00	1	TQ2	E1	31A			
00372	J2109	67										GND	01				TQ2		40A			
02560	J2109	68		J2141	21			168	9			HAI08A	01	HADARO	01	1	TQ2	E1	32A		B01	
02587	J2109	69						168	9			HAI21A	02	HAI21A	00	1	TQ2	F3	35A			
01824	J2109	70		J2104	20			168	9			HAG170V	02	HADARO	01	2	TQ2	E1	33A			
01139	J2109	71						168	9			HAD062E	02	HAI BAA	01	1	TQ2	F2	36A			
02490	J2109	72		J2106	65			168	9			HAI BAA	01	HAI BAA	00	1	TQ2	F2	34A			
03003	J2109	73		J2101	35			168	9			HBCP7A	02	HAI BAA	01	2	TQ2	F2	36B			
02618	J2109	74		J2109	40			168	9			SPI026	00	HAI21A	01	2	TQ2	F3	35B		A05	
00831	J2109	75		J2108	74			168	9			HADBD0	02	HADBD0	00	1	TQ2	F1	37B			
02617	J2109	76		J2114	26			168	9			HBCP5A	03	HAI31A	01	1	TQ2	F4	37A		A05	
02566	J2109	77		J2106	80			168	9			HAI11A	01	HADBD0	01	1	TQ2	F1	38B			
01257	J2109	78						168	9			HAD182E	02	HAI31A	01	2	TQ2	F4	38A		A05	
01859	J2109	79		J2104	27			168	9			HAG240V	02	HADBD0	01	2	TQ2	F1	39B			
02609	J2109	80		J2115	65			168	9			HAI31A	01	HAI31A	00	1	TQ2	F4	39A		A05	



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

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DATE 09-01-82 PAGE 24

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	- FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	OR IN	PREFIX	CONNECTOR	PIN	OR IN	MULTI GROUP	CODE	COLOR	IDENT										
02720	J2110	51		J2103	46				168	9			HAP40D	01	HAP40D	00	1	TLD	D4	27B	40(23A)	
02714	J2110	52		J2103	42				168	9			HAP37D	01	HAP37D	00	1	TLD	D1	24A	37(26A)	
00924	J2110	53							168	9			HADCAV	02	HAP43D	01	1	TLD	E3	28B		
00894	J2110	54							168	9			HADBRAV	02	HAP37D	01	1	TLD	D1	25A		
02349	J2110	55		J2105	43				168	9			HAH063V1	03	HAP43D	01	2	TLD	E3	29B		
02325	J2110	56		J2105	37				168	9			HAH055V1	03	HAP37D	01	2	TLD	D1	26A		
02726	J2110	57		J2103	49				168	9			HAP43D	01	HAP43D	00	1	TLD	E3	30B	43(22B)	
00377	J2110	58											GND	01				TLD		40A		
00929	J2110	59							168	9			HADCBAV	02	HAP44D	01	1	TLD	E4	31B		
02724	J2110	60		J2103	48				168	9			HAP42D	01	HAP42D	00	1	TLD	E2	28A	42(21A)	
02353	J2110	61		J2105	44				168	9			HAH064V1	03	HAP44D	01	2	TLD	E4	32B		
00919	J2110	62							168	9			HADBWA	02	HAP42D	01	1	TLD	E2	29A		
02728	J2110	63		J2103	50				168	9			HAP44D	01	HAP44D	00	1	TLD	E4	33B	44(23B)	
02345	J2110	64		J2105	42				168	9			HAH062V1	03	HAP42D	01	2	TLD	E2	30A		
00944	J2110	65							168	9			HADCEAV	02	HAP47D	01	1	TLD	F3	34B		
02722	J2110	66		J2103	47				168	9			HAP41D	01	HAP41D	00	1	TLD	E1	31A	41(22A)	
00378	J2110	67											GND	01				TLD				
00914	J2110	68							168	9			HADBVA	02	HAP41D	01	1	TLD	E1	32A		
02734	J2110	69		J2103	53				168	9			HAP47D	01	HAP47D	00	1	TLD	F3	35A	47(26B)	
02341	J2110	70		J2105	41				168	9			HAH061V1	03	HAP41D	01	2	TLD	E1	33A		
00939	J2110	71							168	9			HADCDAV	02	HAP46D	01	1	TLD	F2	36A		
02732	J2110	72		J2103	52				168	9			HAP46D	01	HAP46D	00	1	TLD	F2	34A	46(25B)	
02361	J2110	73		J2105	46				168	9			HAH066V1	03	HAP46D	01	2	TLD	F2	36B		
02365	J2110	74		J2105	47				168	9			HAH067V1	03	HAP47D	01	2	TLD	F3	35B		
02730	J2110	75		J2103	51				168	9			HAP45D	01	HAP45D	00	1	TLD	F1	37B	45(22B)	
00949	J2110	76							168	9			HADCFAV	02	HAP48D	01	1	TLD	F4	37A		
00934	J2110	77							168	9			HADCCAV	02	HAP45D	01	1	TLD	F1	38B		
02369	J2110	78		J2105	48				168	9			HAH068V1	03	HAP48D	01	2	TLD	F4	38A		
02357	J2110	79		J2105	45				168	9			HAH065V1	03	HAP45D	01	2	TLD	F1	39B		
02736	J2110	80		J2103	54				168	9			HAP48D	01	HAP48D	00	1	TLD	F4	39A	48(27B)	



DRAWING NUMBER WL10281451  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

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DATE 09-01-82 PAGE 25

RECORD NUMBER	FROM			TO			MULTI GROUP	WIRE	IDENT	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN														CODE
00842	J2111	01						168	9			HADBF0	03	HADBF0	00	1	TQ2	A2	02B	
00379	J2111	02										GND	01				TQ2		01A	
02495	J2111	03						168	9			HAI8CA	02	HAD8G0	01	1	TQ2	A3	02A	
02569	J2111	04						168	9			HAI12AV	02	HADBF0	01	1	TQ2	A2	04A	
01869	J2111	05		J2104	30			168	9			HAG260V	02	HADBF0	01	2	TQ2	A2	03B	
00837	J2111	06						168	9			HAD8E0	03	HAD8E0	00	1	TQ2	A1	05A	
01874	J2111	07		J2104	31			168	9			HAG270V	02	HAD8G0	01	2	TQ2	A3	03A	
02493	J2111	08						168	9			HAI8BA	02	HAD8E0	01	1	TQ2	A1	06A	
00847	J2111	09						168	9			HAD8G0	03	HAD8G0	00	1	TQ2	A3	04B	
01864	J2111	10		J2104	29			168	9			HAG250V	02	HAD8E0	01	2	TQ2	A1	07A	
02571	J2111	11						168	9			HAI13AV	02	HAD8H0	01	1	TQ2	A4	05B	
00075	J2111	12										+5V	01				TQ2			
01879	J2111	13		J2104	33			168	9			HAG280V	02	HAD8H0	01	2	TQ2	A4	06B	
00861	J2111	14		J2145	15			168	9			HAD8JO	02	HAD8JO	00	1	TQ2	B2	09A	
00852	J2111	15						168	9			HAD8H0	03	HAD8H0	00	1	TQ2	A4	07B	
00380	J2111	16										GND	01				TQ2		01B	
02499	J2111	17						168	9			HAI8EA	02	HAD8K0	01	1	TQ2	B3	08B	
02497	J2111	18						168	9			HAI8DA	02	HAD8JO	01	1	TQ2	B2	10A	
01894	J2111	19		J2104	36			168	9			HAG310V	02	HAD8K0	01	2	TQ2	B3	09B	
01889	J2111	20		J2104	35			168	9			HAG300V	02	HAD8JO	01	2	TQ2	B2	11A	
00867	J2111	21						168	9			HAD8K0	03	HAD8K0	00	1	TQ2	B3	10B	
00857	J2111	22						168	9			HAD8IO	03	HAD8IO	00	1	TQ2	B1	12A	
02501	J2111	23						168	9			HAI8FA	02	HAD8LO	01	1	TQ2	B4	11B	
02573	J2111	24		J2112	61			168	9			HAI14A	02	HAD8LO	01	1	TQ2	B1	13A	801
01899	J2111	25		J2104	37			168	9			HAG320V	02	HAD8LO	01	2	TQ2	B4	12B	
01884	J2111	26		J2104	34			168	9			HAG290V	02	HAD8LO	01	2	TQ2	B1	14A	
00872	J2111	27						168	9			HAD8LO	03	HAD8LO	00	1	TQ2	B4	13B	
00076	J2111	28										+5V	01				TQ2			
02505	J2111	29						168	9			HAI8HA	02	HAD8P0	01	1	TQ2	C3	14B	
00882	J2111	30						168	9			HAD8NO	03	HAD8NO	00	1	TQ2	C2	15A	
01914	J2111	31		J2104	40			168	9			HAG350V	02	HAD8P0	01	2	TQ2	C3	15B	
00381	J2111	32										GND	01				TQ2		20B	
00887	J2111	33						168	9			HAD8P0	03	HAD8P0	00	1	TQ2	C3	16B	
02503	J2111	34		J2112	45			168	9			HAI8GA	02	HAD8NO	01	1	TQ2	C2	16A	801
02577	J2111	35						168	9			HAI16A	02	HAD8Q0	01	1	TQ2	C4	17B	
01909	J2111	36		J2104	39			168	9			HAG340V	02	HAD8NO	01	2	TQ2	C2	17A	
01919	J2111	37		J2104	41			168	9			HAG360V	02	HAD8Q0	01	2	TQ2	C4	18B	
00877	J2111	38						168	9			HAD8MO	03	HAD8MO	00	1	TQ2	C1	18A	
00892	J2111	39						168	9			HAD8Q0	03	HAD8Q0	00	1	TQ2	C4	19B	
02575	J2111	40						168	9			HAI15A	02	HAD8MO	01	1	TQ2	C1	19A	802
02509	J2111	41						168	9			HAI8JA	02	HAD8TO	01	1	TQ2	D3	22B	
01904	J2111	42		J2104	38			168	9			HAG330V	02	HAD8MO	01	2	TQ2	C1	20A	
01934	J2111	43		J2104	45			168	9			HAG390V	02	HAD8TO	01	2	TQ2	D3	23B	
00382	J2111	44										GND	01				TQ2		21B	
00907	J2111	45						168	9			HAD8TO	03	HAD8TO	00	1	TQ2	D3	24B	
00902	J2111	46						168	9			HAD8SO	03	HAD8SO	00	1	TQ2	D2	21A	
02581	J2111	47						168	9			HAI18AV	02	HAD8U0	01	1	TQ2	D4	25B	
02579	J2111	48						168	9			HAI17AV	02	HAD8SO	01	1	TQ2	D2	22A	
01939	J2111	49		J2104	46			168	9			HAG400V	02	HAD8U0	01	2	TQ2	D4	26B	
01929	J2111	50		J2104	43			168	9			HAG380V	02	HAD8SO	01	2	TQ2	D2	23A	
CONNECTOR J2111 CONTINUED ON THE NEXT PAGE ****																				

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

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DATE 09-01-82 PAGE 26

RECORD NUMBER	FROM			K E	TO			MULTI GROUP	WIRE			SIGNAL	SEQ NO	EQUATION	Y	FACTORY	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		CODE	COLOR	IDENT											
00912	J2111	51						168	9		HADB00	03	HADB00	00	1	TQ2	D4		27B			
00897	J2111	52						168	9		HADB00	03	HADB00	00	1	TQ2	D1		24A			
02513	J2111	53						168	9		HAI000	02	HADCA0	01	1	TQ2	E3		28B			
02507	J2111	54						168	9		HAI000	02	HADB00	01	1	TQ2	D1		25A			
01954	J2111	55			J2104	49		168	9		HAG430V	02	HADCA0	01	2	TQ2	E3		29B			
01924	J2111	56			J2104	42		168	9		HAG370V	02	HADB00	01	2	TQ2	D1		26A			
00926	J2111	57			J2147	18		168	9		HADCA0	02	HADCA0	00	1	TQ2	E3		30B			
00383	J2111	58									GND	01				TQ2			27A			
02515	J2111	59						168	9		HAI000	02	HADCB0	01	1	TQ2	E4		31B			
00921	J2111	60			J2147	15		168	9		HADB00	02	HADB00	00	1	TQ2	E2		28A			
01959	J2111	61			J2104	50		168	9		HAG440V	02	HADCB0	01	2	TQ2	E4		32B			
02511	J2111	62						168	9		HAI000	02	HADB00	01	1	TQ2	E2		29A			
00931	J2111	63			J2147	20		168	9		HADCB0	02	HADCB0	00	1	TQ2	E4		33B			
01949	J2111	64			J2104	48		168	9		HAG420V	02	HADB00	01	2	TQ2	E2		30A			
02519	J2111	65						168	9		HAI000	02	HADCE0	01	1	TQ2	F3		34B			
00917	J2111	66						168	9		HADB00	03	HADB00	00	1	TQ2	E1		31A			
00384	J2111	67									GND	01				TQ2			40A			
02583	J2111	68			J2112	38		168	9		HAI19A	02	HADB00	01	1	TQ2	E1		32A		801	
00947	J2111	69						168	9		HADCE0	03	HADCE0	00	1	TQ2	F3		35A			
01944	J2111	70			J2104	47		168	9		HAG410V	02	HADB00	01	2	TQ2	E1		33A			
02517	J2111	71			J2112	11		168	9		HAI000	02	HADCB0	01	1	TQ2	F2		36A		801	
00942	J2111	72						168	9		HADCB0	03	HADCB0	00	1	TQ2	F2		34A			
01969	J2111	73			J2104	52		168	9		HAG460V	02	HADCB0	01	2	TQ2	F2		36B			
01974	J2111	74			J2104	53		168	9		HAG470V	02	HADCE0	01	2	TQ2	F3		35B			
00937	J2111	75						168	9		HADCB0	03	HADCB0	00	1	TQ2	F1		37B			
02586	J2111	76			J2109	69		168	9		HAI21A	01	HADCF0	01	1	TQ2	F4		37A			
02585	J2111	77						168	9		HAI20AV	02	HADCB0	01	1	TQ2	F1		38B			
01979	J2111	78			J2104	54		168	9		HAG480V	02	HADCF0	01	2	TQ2	F4		38A			
01964	J2111	79			J2104	51		168	9		HAG450V	02	HADCB0	01	2	TQ2	F1		39B			
00952	J2111	80						168	9		HADCF0	03	HADCF0	00	1	TQ2	F4		39A			

DRAWING NUMBER WL10281451 CONNECTOR UNIT ASSEMBLY NO. 10281451 REV E INDEX J2112  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 27

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	EN TO	PREFIX	CONNECTOR	PIN	EN TO	MULTI GROUP	CODE	COLOR												IDENT
00838		J2112	01		J2110	04			168	9			HADBFVAV	01	HADBFVAV	00	1	THI	A4	02B			
00385		J2112	02		J2110	04			168	9			HADBFVAV	01	HADBFVAV	00	1	THI	A4	02A			
00833		J2112	03		J2110	08			168	9			HADBEAV	01	HADBEAV	00	1	THI	A3	03A			
00836		J2112	04		J2111	06			168	9			HADBEAV	02	HADBEAV	01	1	THI	A3	02A			
00841		J2112	05		J2111	01			168	9			HADBF0	02	HADBFVAV	01	1	THI	A4	03B			
00711		J2112	06		J2108	10			168	9			HAC30V	01	HAC3AV	01	1	THI	A2	05A			
00843		J2112	07		J2110	03			168	9			HADBGAV	01	HADBGAV	00	1	THI	A5	04B			
00709		J2112	08		J2117	13			168	9			HAC3AV	06	HAC3AV	00	1	THI	A2	04A			
00846		J2112	09		J2111	09			168	9			HADBG0	02	HADBGAV	01	1	THI	A5	05B			
00848		J2112	10		J2110	11			168	9			HADBHAV	01	HADBHAV	00	1	THI	A6	06B			
03250		J2112	11						168	9			HAICCA	03	HAICCOV	01	1	THI	A1	07A		801	
00077		J2112	12						168	9			+5V	01				THI					
03620		J2112	13	SAE	J2140	40			168	9			HAICCOV	01	HAICCOV	00	1	THI	A1	06A		801	
00868		J2112	14		J2110	23			168	9			HADBLAV	01	HADBLAV	00	1	THI	B4	08B			
00851		J2112	15		J2111	15			168	9			HADBHO	02	HADBHAV	01	1	THI	A6	07B			
00386		J2112	16										GND	01				THI		20B			
00871		J2112	17		J2111	27			168	9			HADBL0	02	HADBLAV	01	1	THI	B4	09B			
00863		J2112	18		J2110	17			168	9			HADBKAV	01	HADBKAV	00	1	THI	B3	09A			
02568		J2112	19		J2111	04			168	9			HAI12AV	01	HAI12AV	00	1	THI	B5	10B			
00866		J2112	20		J2111	21			168	9			HADBK0	02	HADBKAV	01	1	THI	B3	10A			
01165		J2112	21						168	9			HAD071E	02	HAI12AV	01	1	THI	B5	11B			
00856		J2112	22		J2111	22			168	9			HADBIO	02	HADBIAV	01	1	THI	B1	14A			
00860		J2112	23		J2111	14			168	9			HADBJ0	01	HADBJAV	01	1	THI	B2	12A			
00853		J2112	24		J2110	24			168	9			HADBIAV	01	HADBIAV	00	1	THI	B1	13A			
00858		J2112	25		J2110	18			168	9			HADBJAV	01	HADBJAV	00	1	THI	B2	11A			
02570		J2112	26		J2111	11			168	9			HAI13AV	01	HAI13AV	00	1	THI	B6	12B			
01169		J2112	27						168	9			HAD073E	02	HAI13AV	01	1	THI	B6	13B			
00078		J2112	28										+5V	01				THI					
00881		J2112	29		J2111	30			168	9			HADBN0	02	HADBNAV	01	1	THI	C4	15B			
00878		J2112	30		J2110	34			168	9			HADBNAV	01	HADBNAV	00	1	THI	C4	14B			
00883		J2112	31		J2110	29			168	9			HADBPVAV	01	HADBPVAV	00	1	THI	C5	16B			
00387		J2112	32										GND	01				THI		21B			
00886		J2112	33		J2111	33			168	9			HADBP0	02	HADBPVAV	01	1	THI	C5	17B			
00873		J2112	34		J2110	40			168	9			HADBNAV	01	HADBNAV	00	1	THI	C3	15A			
01179		J2112	35		J2114	37			168	9			SP1025	02		01	1	THI	C2	18A		801	
00876		J2112	36		J2111	38			168	9			HADBM0	02	HADBMNAV	01	1	THI	C3	16A			
02574		J2112	37										SPO	01		00	1	THI	C2	17A		A06	
01171		J2112	38						168	9			HAI19A	03	HAI190V	01	1	THI	C1	20A		801	
00891		J2112	39		J2111	39			168	9			HADBQ0	02	HADBQAV	01	1	THI	C6	19B			
02572		J2112	40	SAE	J2140	23			168	9			HAI190V	01	HAI190V	00	1	THI	C1	19A		801	
00911		J2112	41		J2111	51			168	9			HADBU0	02	HADBUAV	01	1	THI	D4	23B			
00888		J2112	42		J2110	35			168	9			HADBQAV	01	HADBQAV	00	1	THI	C6	18B			
03621		J2112	43	SAE	J2140	14			168	9			HAI8GOV	01	HAI8GOV	00	1	THI	D5	24B		801	
00388		J2112	44										GND	01				THI		27A			
03253		J2112	45						168	9			HAI8GA	03	HAI8GOV	01	1	THI	D5	25B		801	
00908		J2112	46		J2110	47			168	9			HADBUAV	01	HADBUAV	00	1	THI	D4	22B			
00901		J2112	47		J2111	46			168	9			HADBS0	02	HADBSAV	01	1	THI	D2	24A			
00903		J2112	48		J2110	41			168	9			HADBTAV	01	HADBTAV	00	1	THI	D3	21A			
00898		J2112	49		J2110	48			168	9			HADBSAV	01	HADBSAV	00	1	THI	D2	23A			
00906		J2112	50		J2111	45			168	9			HADBT0	02	HADBTAV	01	1	THI	D3	22A			

CONNECTOR J2112 CONTINUED ON THE NEXT PAGE \*\*\*

DRAWING NUMBER WL10281451 CONNECTOR  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2112  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 28

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	Y	U	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	IN TO	PREFIX	CONNECTOR	PIN	IN TO	MULTI GROUP	CODE	COLOR	IDENT										AND	OR		
01189		J2112	51							168	9		HAD101E	02	HAI17AV	01	1	THI	D6		27B				
00896		J2112	52		J2111	52				168	9		HADBRO	02	HADBRAV	01	1	THI	D1		26A				
02578		J2112	53		J2111	48				168	9		HAI17AV	01	HAI17AV	00	1	THI	D6		26B				
00893		J2112	54		J2110	54				168	9		HADBRAV	01	HADBRAV	00	1	THI	D1		25A				
03254		J2112	55							168	9		HAFTCP	03	HAFTCOV	01	1	THI	E4		29B				
03622		J2112	56		J2101	38				168	9		HAFTCOV	01	HAFTCOV	00	1	THI	E4		28B		A04		
00913		J2112	57		J2110	68				168	9		HADBVAV	01	HADBVAV	00	F	THI	E5		30B			A04	
00389		J2112	58										GND	01				THI			40A				
00916		J2112	59		J2111	66				168	9		HADBVO	02	HADBVAV	01	1	THI	E5		31B				
02584		J2112	60		J2111	77				168	9		HAI20AV	01	HAI20AV	00	1	THI	E3		28A				
01195		J2112	61							168	9		HAI14A	03	HAI140V	01	1	THI	E2		31A			801	
01203		J2112	62							168	9		HAD120E	02	HAI20AV	01	1	THI	E3		29A				
02582		J2112	63		SAE	J2140	24			168	9		HAI140V	01	HAI140V	00	1	THI	E2		30A			801	
01193		J2112	64							168	9		HAD103E	02	HAI18AV	01	1	THI	E1		33A				
00920		J2112	65		J2111	60				168	9		HADBWO	01	HADBWA	01	1	THI	E6		33B				
02580		J2112	66		J2111	47				168	9		HAI18AV	01	HAI18AV	00	1	THI	E1		32A				
00390		J2112	67										GND	01				THI							
00918		J2112	68		J2110	62				168	9		HADBWA	01	HADBWA	00	1	THI	E6		32B				
00936		J2112	69		J2111	75				168	9		HADCCO	02	HADCCA	01	1	THI	F3		35B				
00933		J2112	70		J2110	77				168	9		HADCCA	01	HADCCA	00	1	THI	F3		34B				
00928		J2112	71		J2110	59				168	9		HADCB	01	HADCB	00	1	THI	F2		36B				
00938		J2112	72		J2110	71				168	9		HADCD	01	HADCD	00	1	THI	F4		34A				
00930		J2112	73		J2111	63				168	9		HADCB	01	HADCB	01	1	THI	F2		37B				
00941		J2112	74		J2111	72				168	9		HADCD	02	HADCD	01	1	THI	F4		35A				
00951		J2112	75		J2111	80				168	9		HADCF	02	HADCF	01	1	THI	F6		39A				
00946		J2112	76		J2111	69				168	9		HADCE	02	HADCE	01	1	THI	F5		37A				
00948		J2112	77		J2110	76				168	9		HADCF	01	HADCF	00	1	THI	F6		38A				
00943		J2112	78		J2110	65				168	9		HADCE	01	HADCE	00	1	THI	F5		36A				
00925		J2112	79		J2111	57				168	9		HADCA	01	HADCA	01	1	THI	F1		39B				
00923		J2112	80		J2110	53				168	9		HADCA	01	HADCA	00	1	THI	F1		38B				



DRAWING NUMBER WL10281451 CONNECTOR  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2113  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 30

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	OR	PREFIX	CONNECTOR	PIN	OR	MULTI GROUP	CODE	COLOR	IDENT											
02768		J2113	51		J2103	72				168	9		HAP64D	01	HAP64D	00	1	TLD	D4		27B	64(36B)	
02762		J2113	52		J2103	69				168	9		HAP61D	01	HAP61D	00	1	TLD	D1		24A	61(39B)	
01044		J2113	53							168	9		HADCZAV	02	HAP67D	01	1	TLD	E3		28B		
01014		J2113	54							168	9		HADCTAV	02	HAP61D	01	1	TLD	D1		25A		
02462		J2113	55		J2105	67				168	9		HAH093V1	03	HAP67D	01	2	TLD	E3		29B		A01
03255		J2113	56		J2105	61				168	9		HAH085V1	02	HAP61D	01	2	TLD	D1		26A		A02
02774		J2113	57		J2103	75				168	9		HAP67D	01	HAP67D	00	1	TLD	E3		30B	67(34B)	
00395		J2113	58										GND	01				TLD			40A		
01049		J2113	59							168	9		HADDAAV	02	HAP68D	01	1	TLD	E4		31B		
02772		J2113	60		J2103	74				168	9		HAP66D	01	HAP66D	00	1	TLD	E2		28A	66(34A)	
02447		J2113	61		J2105	68				168	9		HAH094V1	03	HAP68D	01	2	TLD	E4		32B		
01039		J2113	62							168	9		HADCYAV	02	HAP66D	01	1	TLD	E2		29A		
02776		J2113	63		J2103	76				168	9		HAP68D	01	HAP68D	00	1	TLD	E4		33B	68(35B)	
02440		J2113	64		J2105	66				168	9		HAH092V1	03	HAP66D	01	2	TLD	E2		30A		
01065		J2113	65							168	9		HADDDAV	02	HAP71D	01	1	TLD	F3		34B		
02770		J2113	66		J2103	73				168	9		HAP65D	01	HAP65D	00	1	TLD	E1		31A	65(36A)	
00396		J2113	67										GND	01				TLD					
01034		J2113	68							168	9		HADCXAV	02	HAP65D	01	1	TLD	E1		32A		
02782		J2113	69		J2103	79				168	9		HAP71D	01	HAP71D	00	1	TLD	F3		35A	71(38A)	
02436		J2113	70		J2105	65				168	9		HAH091V1	03	HAP65D	01	2	TLD	E1		33A		
01059		J2113	71							168	9		HADDCAV	02	HAP70D	01	1	TLD	F2		36A		
02780		J2113	72		J2103	78				168	9		HAP70D	01	HAP70D	00	1	TLD	F2		34A	70(37A)	
02455		J2113	73		J2105	70				168	9		HAH096V1	03	HAP70D	01	2	TLD	F2		36B		
02459		J2113	74		J2105	71				168	9		HAH097V1	03	HAP71D	01	2	TLD	F3		35B		
02778		J2113	75		J2103	77				168	9		HAP69D	01	HAP69D	00	1	TLD	F1		37B	69(35A)	
01069		J2113	76							168	9		HADDEAV	02	HAP72D	01	1	TLD	F4		37A		
01054		J2113	77							168	9		HADDBAV	02	HAP69D	01	1	TLD	F1		38B		
02463		J2113	78		J2123	76				168	9		HAH098V1	03	HAP72D	01	2	TLD	F4		38A		
02451		J2113	79		J2105	69				168	9		HAH095V1	03	HAP69D	01	2	TLD	F1		39B		
02784		J2113	80		J2103	80				168	9		HAP72D	01	HAP72D	00	1	TLD	F4		39A	72(39A)	



DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2114  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 32

RECORD NUMBER	FROM				TO				WIRE				SPEC TEST INDEX	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	POS	PREFIX	CONNECTOR	PIN	POS	MULTI GROUP	CODE	COLOR	IDENT										AND	OR		
02541		J2114	51							168	9		HAICPA	02	HAICPA	00	1	TQ2	D4		27B				
02533		J2114	52							168	9		HAICKA	02	HAICKA	00	1	TQ2	D1		24A				
01201		J2114	53							168	9		HAD113E	02	HAICBA	01	1	TQ2	E3		28B				
01231		J2114	54							168	9		HAD152E	02	HAICKA	01	1	TQ2	D1		25A				
03006		J2114	55		J2114	78				168	9		HBCP5A	05	HAICBA	01	2	TQ2	E3		29B		A05		
03002		J2114	56		J2109	73				168	9		HBCP7A	01	HAICKA	01	2	TQ2	D1		26A				
02514		J2114	57		J2111	59				168	9		HAICBA	01	HAICBA	00	1	TQ2	E3		30B				
00401		J2114	58										GND	01				TQ2			27A				
01185		J2114	59							168	9		HAD093E	02	HA116A	01	1	TQ2	E4		31B				
02512		J2114	60		J2111	53				168	9		HAICAA	01	HAICAA	00	1	TQ2	E2		28A				
02610		J2114	61		J2127	45				168	9		SPT025	08	HA116A	01	2	TQ2	E4		32B		A05		
01199		J2114	62							168	9		HAD112E	02	HAICAA	01	1	TQ2	E2		29A				
02576		J2114	63		J2111	35				168	9		HA116A	01	HA116A	00	1	TQ2	E4		33B				
00705		J2114	64		J2117	49				168	9		HACP3AV	02	HAICAA	01	2	TQ2	E2		30A				
01247		J2114	65							168	9		HAD172E	02	HAICQA	01	1	TQ2	F3		34B				
02510		J2114	66		J2111	62				168	9		HAIBKA	01	HAIBKA	00	1	TQ2	E1		31A				
00402		J2114	67										GND	01				TQ2			40A				
01197		J2114	68							168	9		HAD111E	02	HAIBKA	01	1	TQ2	E1		32A				
02543		J2114	69							168	9		HAICQA	02	HAICQA	00	1	TQ2	F3		35A				
02972		J2114	70		J2114	49				168	9		HBCP1A	04	HAIBKA	01	2	TQ2	E1		33A				
01207		J2114	71							168	9		HAD122E	02	HAICDA	01	1	TQ2	F2		36A				
02518		J2114	72		J2111	65				168	9		HAICDA	01	HAICDA	00	1	TQ2	F2		34A				
02998		J2114	73		J2114	19				168	9		HBCP6A	02	HAICDA	01	2	TQ2	F2		36B		A05		
00704		J2114	74		J2114	64				168	9		HACP3AV	01	HAICQA	01	2	TQ2	F3		35B				
02516		J2114	75		J2111	71				168	9		HAICCA	01	HAICCA	00	1	TQ2	F1		37B				
01249		J2114	76							168	9		HAD173E	02	HAICRA	01	1	TQ2	F4		37A				
01205		J2114	77							168	9		HAD121E	02	HAICCA	01	1	TQ2	F1		38B				
03005		J2114	78							168	9		HBCP5A	06	HAICRA	01	2	TQ2	F4		38A		A05		
03009		J2114	79		J2114	42				168	9		HBCP9A	01	HAICCA	01	2	TQ2	F1		39B				
02545		J2114	80							168	9		HAICRA	02	HAICRA	00	1	TQ2	F4		39A				





DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2115  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 34

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	INFO	PREFIX	CONNECTOR	PIN	INFO	MULTI GROUP	CODE	COLOR	IDENT									AND	OR		
01032		J2115	51							168	9		HADCW0	03	HADCW0	00	1	TQ2	D4		27B			
01017		J2115	52							168	9		HADCT0	03	HADCT0	00	1	TQ2	D1		24A			
02542		J2115	53		J2114	69				168	9		HATCQA	01	HADCZ0	01	1	TQ2	E3		28B			
02534		J2115	54		J2114	46				168	9		HAICLA	01	HADC T0	01	1	TQ2	D1		25A			
02074		J2115	55		J2104	75				168	9		HAG670V	02	HADCZ0	01	2	TQ2	E3		29B			
02044		J2115	56		J2104	69				168	9		HAG610V	02	HADCT0	01	2	TQ2	D1		26A			
01046		J2115	57		J2145	70				168	9		HADCZ0	02	HADCZ0	00	1	TQ2	E3		30B			
00407		J2115	58										GND	01				TQ2			27A			
02544		J2115	59		J2114	80				168	9		HATCRA	01	HADDA0	01	1	TQ2	E4		31B			
01042		J2115	60							168	9		HADCY0	03	HADCY0	00	1	TQ2	E2		28A			
02079		J2115	61		J2104	76				168	9		HAG680V	02	HADDA0	01	2	TQ2	E4		32B			
02540		J2115	62		J2114	51				168	9		HATCPA	01	HADCY0	01	1	TQ2	E2		29A			
01051		J2115	63		J2145	72				168	9		HADDA0	02	HADDA0	00	1	TQ2	E4		33B			
02069		J2115	64		J2104	74				168	9		HAG660V	02	HADCY0	01	2	TQ2	E2		30A			
02607		J2115	65							168	9		HAI31A	02	HADDD0	01	1	TQ2	F3		34B		A05	
01037		J2115	66							168	9		HADCX0	03	HADCX0	00	1	TQ2	E1		31A			
00408		J2115	67										GND	01				TQ2			40A			
02601		J2115	68							168	9		HAI28AV	02	HADCX0	01	1	TQ2	E1		32A			
01067		J2115	69							168	9		HADDD0	02	HADDD0	00	1	TQ2	F3		35A			
02064		J2115	70		J2104	73				168	9		HAG650V	02	HADCX0	01	2	TQ2	E1		33A			
02605		J2115	71							168	9		HAI30AV	02	HADDC0	01	1	TQ2	F2		36A			
01063		J2115	72							168	9		HADDC0	04	HADDC0	00	1	TQ2	F2		34A			
02089		J2115	73		J2104	78				168	9		HAG700V	02	HADDC0	01	2	TQ2	F2		36B			
02094		J2115	74		J2104	79				168	9		HAG710V	02	HADDD0	01	2	TQ2	F3		35B			
01057		J2115	75							168	9		HADDB0	03	HADDB0	00	1	TQ2	F1		37B			
02608		J2115	76		J2116	63				168	9		HAI32AV	01	HADDE0	01	1	TQ2	F4		37A		A05	
02603		J2115	77							168	9		HAI29A	02	HADDB0	01	1	TQ2	F1		38B		A05	
02099		J2115	78		J2104	80				168	9		HAG720V	02	HADDE0	01	2	TQ2	F4		38A			
02084		J2115	79		J2104	77				168	9		HAG690V	02	HADDB0	01	2	TQ2	F1		39B			
01072		J2115	80							168	9		HADDE0	03	HADDE0	00	1	TQ2	F4		39A			

DRAWING NUMBER WL10281451 CONNECTOR  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX J2116  
FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 35

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	WIRE #	PREFIX	CONNECTOR	PIN	WIRE #	MULTI GROUP	CODE	COLOR	IDENT											
00968		J2116	01		J2113	11				168	9		HADCJAV	01	HADCJAV	00	1	THI	A4		02B		
00409		J2116	02										GND	01				1	THI			01A	
00963		J2116	03		J2113	03				168	9		HADCIAV	01	HADCIAV	00	1	THI	A3			03A	
00966		J2116	04		J2115	09				168	9		HADCIO	02	HADCIAV	01	1	THI	A3			02A	
00970		J2116	05		J2115	15				168	9		HADCJO	01	HADCJAV	01	1	THI	A4			03B	
00961		J2116	06		J2115	01				168	9		HADCJO	02	HADCHAV	01	1	THI	A2			05A	
00973		J2116	07		J2113	24				168	9		HADCJAV	01	HADCJAV	00	1	THI	A5			04B	
00958		J2116	08		J2113	04				168	9		HADCKAV	01	HADCKAV	00	1	THI	A2			04A	
00975		J2116	09		J2115	22				168	9		HADCKAV	01	HADCKAV	01	1	THI	A5			05B	
00978		J2116	10		J2113	18				168	9		HADCKAV	01	HADCLAV	00	1	THI	A6			06B	
00956		J2116	11		J2115	06				168	9		HADCKAV	02	HADCGAV	01	1	THI	A1			07A	
00085		J2116	12										+5V	01				1	THI				
00953		J2116	13		J2113	08				168	9		HADCGAV	01	HADCGAV	00	1	THI	A1			06A	
02592		J2116	14		J2115	40				168	9		HAI24AV	01	HAI24AV	00	1	THI	B4			08B	
00981		J2116	15		J2115	14				168	9		HADCL0	02	HADCLAV	01	1	THI	A6			07B	
00410		J2116	16										GND	01				1	THI			20B	
01227		J2116	17							168	9		HAD150E	02	HAI24AV	01	1	THI	B4			09B	
02590		J2116	18	SAE	J2140	30				168	9		HAICFOV	01	HAICFOV	00	1	THI	B3			09A	801
02594		J2116	19		J2115	34				168	9		HAI25AV	01	HAI25AV	00	1	THI	B5			10B	
01219		J2116	20		J2115	04				168	9		HAICFA	00	HAICFOV	01	1	THI	B3			10A	801
01229		J2116	21							168	9		HAI25AV	02	HAI25AV	01	1	THI	B5			11B	
00986		J2116	22		J2115	21				168	9		HADCNO	02	HADCNAV	01	1	THI	B1			14A	
01217		J2116	23							168	9		HAI22AV	02	HAI22AV	01	1	THI	B2			12A	
00983		J2116	24		J2113	17				168	9		HADCNAV	01	HADCNAV	00	1	THI	B1			13A	
02588		J2116	25		J2115	11				168	9		HAI22AV	01	HAI22AV	00	1	THI	B2			11A	
00988		J2116	26		J2113	23				168	9		HADCNAV	01	HADCNAV	00	1	THI	B6			12B	
00991		J2116	27		J2115	27				168	9		HADCNAV	02	HADCNAV	01	1	THI	B6			13B	
00086		J2116	28										+5V	01				1	THI				
01010		J2116	29		J2115	39				168	9		HADCS0	01	HADCSAV	01	1	THI	C4			15B	
01008		J2116	30		J2113	35				168	9		HADCSAV	01	HADCSAV	00	1	THI	C4			14B	
01013		J2116	31		J2113	54				168	9		HADCTAV	01	HADCTAV	00	1	THI	C5			16B	
00411		J2116	32										GND	01				1	THI			21B	
01016		J2116	33		J2115	52				168	9		HADCT0	02	HADCTAV	01	1	THI	C5			17B	
01003		J2116	34		J2113	29				168	9		HADCRAV	01	HADCRAV	00	1	THI	C3			15A	
01001		J2116	35		J2115	30				168	9		HADCQ0	02	HADCQAV	01	1	THI	C2			18A	
01006		J2116	36		J2115	33				168	9		HADCRAV	02	HADCRAV	01	1	THI	C3			16A	
00998		J2116	37		J2113	34				168	9		HADCQAV	01	HADCQAV	00	1	THI	C2			17A	
00996		J2116	38		J2115	38				168	9		HADCP0	02	HADCPAV	01	1	THI	C1			20A	
01021		J2116	39		J2115	46				168	9		HADCU0	02	HADCUAV	01	1	THI	C6			19B	
00993		J2116	40		J2113	40				168	9		HADCPAV	01	HADCPAV	00	1	THI	C1			19A	
01241		J2116	41							168	9		HAI27AV	02	HAI27AV	01	1	THI	D4			23B	
01018		J2116	42		J2113	48				168	9		HADCUAV	01	HADCUAV	00	1	THI	C6			18B	
02600		J2116	43		J2115	68				168	9		HAI28AV	01	HAI28AV	00	1	THI	D5			24B	
00412		J2116	44										GND	01				1	THI			27A	
01243		J2116	45							168	9		HAI28AV	02	HAI28AV	01	1	THI	D5			25B	
02598		J2116	46		J2115	47				168	9		HAI27AV	01	HAI27AV	00	1	THI	D4			22B	
01031		J2116	47		J2115	51				168	9		HADCNO	02	HADCNAV	01	1	THI	D2			24A	
03623		J2116	48										SPO	01				1	THI	D3		21A	
01028		J2116	49		J2113	47				168	9		HADCNAV	01	HADCNAV	00	1	THI	D2			23A	
03257		J2116	50		J2127	47				168	9		SPI026	08				1	THI	D3		22A	
CONNECTOR (J2116) CONTINUED ON THE NEXT PAGE ****																							

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX J2116  
 DATE 09-01-82 PAGE 36

RECORD NUMBER	FROM			TO	WIRE				SFC INST WIRE	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	DI													MULTI GROUP
01251		J2116	51						168	9		HAI23A	03	HAI230V	01	1	THI	D6	27B		
01026		J2116	52		J2115	45			168	9		HADCVO	02	HADCYAV	01	1	THI	D1	26A		B01
02602		J2116	53	SAE	J2140	35			168	9		HAI230V	01	HAI230V	00	1	THI	D6	26B		B01
01023		J2116	54		J2113	41			168	9		HADCYAV	01	HADCYAV	00	1	THI	D1	25A		
01036		J2116	55		J2115	66			168	9		HADCX0	02	HADCXAV	01	1	THI	E4	29B		
01033		J2116	56		J2113	68			168	9		HADCXAV	01	HADCXAV	00	1	THI	E4	28B		
01038		J2116	57		J2113	62			168	9		HADCYAV	01	HADCYAV	00	1	THI	E5	30B		
00413		J2116	58									GND	01				THI		40A		
01041		J2116	59		J2115	60			168	9		HADCY0	02	HADCYAV	01	1	THI	E5	31B		
03624		J2116	60									SPO	01				THI	E3	28A		
01255		J2116	61						168	9		HAD183E	02	HAI32AV	01	1	THI	E2	31A		A05
03256		J2116	62		J2116	50			168	9		SPI026	07		01	1	THI	E3	29A		
02606		J2116	63						168	9		HAI32AV	02	HAI32AV	00	1	THI	E2	30A		A05
01253		J2116	64						168	9		HAD181E	02	HAI30AV	01	1	THI	E1	33A		
01045		J2116	65		J2115	57			168	9		HADCZ0	01	HADCZAV	01	1	THI	E6	33B		
02604		J2116	66		J2115	71			168	9		HAI30AV	01	HAI30AV	00	1	THI	E1	32A		
00414		J2116	67									GND	01				THI				
01043		J2116	68		J2113	53			168	9		HADCZAV	01	HADCZAV	00	1	THI	E6	32B		
01062		J2116	69		J2115	72			168	9		HADDC0	03	HADDCAV	01	1	THI	F3	35B		
01058		J2116	70		J2113	71			168	9		HADDCAV	01	HADDCAV	00	1	THI	F3	34B		
01053		J2116	71		J2113	77			168	9		HADDBAV	01	HADDBAV	00	1	THI	F2	36B		
01064		J2116	72		J2113	65			168	9		HADDDAV	01	HADDDAV	00	1	THI	F4	34A		
01056		J2116	73		J2115	75			168	9		HADDB0	02	HADDBAV	01	1	THI	F2	37B		
01066		J2116	74		J2115	69			168	9		HADDD0	01	HADDDAV	01	1	THI	F4	35A		
03280		J2116	75						168	9		HAGM3A	02	HAGM30V	01	1	THI	F6	39A		D01
01071		J2116	76		J2115	80			168	9		HADDE0	02	HADDEAV	01	1	THI	F5	37A		
03625		J2116	77		J2140	78			168	9		HAGM30V	01	HAGM30V	00	1	THI	F6	38A		D01
01068		J2116	78		J2113	76			168	9		HADDEAV	01	HADDEAV	00	1	THI	F5	36A		
01050		J2116	79		J2115	63			168	9		HADDA0	01	HADDAAV	01	1	THI	F1	39B		
01048		J2116	80		J2113	59			168	9		HADDAAV	01	HADDAAV	00	1	THI	F1	38B		

DRAWING NUMBER WL10281451 CONNECTOR UNIT ASSEMBLY NO. 10281451 REV E INDEX J2117  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2 DATE 09-01-82 PAGE 37

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PC IN	PREFIX	CONNECTOR	PIN	PC IN	MULTI GROUP	CODE	COLOR									IDENT	AND		
01167		J2117	01							168	9		HAD072E	02	HA1BCA	01	1	TT3	A2	02B			
00415		J2117	02									GND	01					TT3		01B			
02980		J2117	03		J2117	11				168	9	HBCP2A	05	HA1BCA	01	2	TT3	A2		02A			
02468		J2117	04		J2106	03				168	9	HAIABA	01	HA1ABA	00	1	TT3	A1		04A			
02988		J2117	05		J2117	10				168	9	HBCP3A	06	HA1BCA	01	3	TT3	A2		03B			
01119		J2117	06							168	9	HAD012E	02	HA1ABA	01	1	TT3	A1		05A			
02494		J2117	07		J2111	03				168	9	HA1BCA	01	HA1BCA	00	1	TT3	A2		03A			
02979		J2117	08		J2117	03				168	9	HBCP2A	04	HA1ABA	01	2	TT3	A1		06A			
01215		J2117	09							168	9	HAD132E	02	HA1CGA	01	1	TT3	A3		04B			
02989		J2117	10		J2135	52				168	9	HBCP3A	07	HA1ABA	01	3	TT3	A1		07A			
02981		J2117	11		J2101	25				168	9	HBCP2A	06	HA1CGA	01	2	TT3	A3		05B			
00087		J2117	12									+5V	01				TT3						
00710		J2117	13							168	9	HACP3AV	07	HA1CGA	01	3	TT3	A3		06B			
01446		J2117	14							168	9	HAGAHA	02	HAGAJO	01	1	TT3	B2		09A			
02524		J2117	15		J2115	03				168	9	HA1CGA	01	HA1CGA	00	1	TT3	A3		07B			
00416		J2117	16									GND	01				TT3		21B				
01448		J2117	17							168	9	HAGAIA	02	HAGAJO	01	2	TT3	B2		08B			
02915		J2117	18							168	9	HA1CCAV	05	HAGAJO	01	3	TT3	B2		10A			
01453		J2117	19							168	9	HAGAJO	05	HAGAJO	00	1	TT3	B2		09B			
01432		J2117	20							168	9	HAGAE0	03	HAGAE0	00	1	TT3	B1		11A			
01464		J2117	21							168	9	HAGALA	02	HAGANO	01	1	TT3	B3		10B			
01427		J2117	22							168	9	HAGACA	02	HAGAE0	01	1	TT3	B1		12A			
01466		J2117	23							168	9	HAGAMA	02	HAGANO	01	2	TT3	B3		11B			
01429		J2117	24							168	9	HAGADA	02	HAGAE0	01	2	TT3	B1		13A			
02639		J2117	25		J2117	25				168	9	HAMGC3T	09	HAGANO	01	3	TT3	B3		12B			
02638		J2117	26							168	9	HAMGC3T	08	HAGAE0	01	3	TT3	B1		14A			
01473		J2117	27							168	9	HAGANO	07	HAGANO	00	1	TT3	B3		13B			
00088		J2117	28									+5V	01				TT3						
03274		J2117	29							168	9	HAD022E	02	HA1AEA	01	1	TT3	C2		14B		A05	
03262		J2117	30							168	9	HBCP3A	10	HA1AEA	01	2	TT3	C2		15A		A05	
03626		J2117	31							168	9	HA1AEA	02	HA1AEA	00	1	TT3	C2		15B		A05	
00417		J2117	32									GND	01				TT3		27A				
03275		J2117	33							168	9	HBCPOA	03	HA1AFA	01	1	TT3	C3		16B		A05	
03289		J2117	34		J2135	19				168	9	HBCPAA	02	HA1AEA	01	3	TT3	C2		16A		A05	
03261		J2117	35							168	9	HAD023E	02	HA1AFA	01	2	TT3	C3		17B		A05	
02538		J2117	36		J2115	41				168	9	HA1CNA	01	HA1CNA	00	1	TT3	C1		17A			
03290		J2117	37		J2101	36				168	9	HBCP8A	03	HA1AFA	01	3	TT3	C3		18B		A05	
01239		J2117	38							168	9	HAD162E	02	HA1CNA	01	1	TT3	C1		18A			
03627		J2117	39		J2141	76				168	9	HA1AFA	02	HA1AFA	00	1	TT3	C3		19B		B01	
02978		J2117	40		J2117	08				168	9	HBCP2A	03	HA1CNA	01	2	TT3	C1		19A			
01149		J2117	41							168	9	HAD051E	02	HA1AJA	01	1	TT3	D2		22B			
00707		J2117	42		J2114	31				168	9	HACP3AV	04	HA1CNA	01	3	TT3	C1		20A			
02484		J2117	43		J2109	62				168	9	HA1AJA	01	HA1AJA	00	1	TT3	D2		23B			
00418		J2117	44									GND	01				TT3		40A				
01191		J2117	45							168	9	HAD102E	02	HA1BJA	01	1	TT3	D3		24B			
02971		J2117	46		J2114	70				168	9	HBCP1A	03	HA1AJA	01	2	TT3	D2		21A			
02977		J2117	47		J2117	40				168	9	HBCP2A	02	HA1BJA	01	2	TT3	D3		25B			
02937		J2117	48		J2101	34				168	9	HBBP3A	01	HA1AJA	01	3	TT3	D2		22A			
00706		J2117	49		J2117	42				168	9	HACP3AV	03	HA1BJA	01	3	TT3	D3		26B			
02478		J2117	50		J2106	48				168	9	HA1AGA	01	HA1AGA	00	1	TT3	D1		23A			
CONNECTOR (J2117) CONTINUED ON THE NEXT PAGE ****																							

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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RECORD NUMBER	FROM				TO				WIRE				SFC INET MISC	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	REF	PREFIX	CONNECTOR	PIN	REF	MULTI GROUP	CODE	COLOR	IDENT												
02508		J2117	51		J2111	41				168	9		HA18JA	01	HA18JA	00	1	TT3	D3		27B			
01135		J2117	52							168	9		HAD032E	02	HAIAGA	01	1	TT3	D1		24A			
03021		J2117	53		J2101	17				168	9		H8KB16V1	01	HAE2CA	01	1	TT3	E2		28B			
02997		J2117	54		J2114	73				168	9		HBCP6A	01	HAIAGA	01	2	TT3	D1		25A			
01400		J2117	55							168	9		HAE2CA	02	HAE2CA	00	1	TT3	E2		29B			
02933		J2117	56		J2101	31				168	9		H8BP1A	01	HAIAGA	01	3	TT3	D1		26A			
03023		J2117	57		J2101	18				168	9		H8KB17V1	01	HAE3CA	01	1	TT3	E3		30B			
00419		J2117	58										GND	01				TT3			40B			
01383		J2117	59		J2117	60				168	9		HAET4Q	01	HAE3CA	01	2	TT3	E3		31B			
01384		J2117	60		J2144	19				168	9		HAET4Q	02	HAE2CA	01	2	TT3	E2		28A			
01392		J2117	61		J2141	39				168	9		HAET5Q	02	HAE3CA	01	3	TT3	E3		32B			
01389		J2117	62		J2117	70				168	9		HAET5P	02	HAE2CA	01	3	TT3	E2		29A			
01402		J2117	63							168	9		HAE3CA	02	HAE3CA	00	1	TT3	E3		33B			
01398		J2117	64							168	9		HAE1CA	02	HAE1CA	00	1	TT3	E1		30A			
02920		J2117	65		J2134	73				168	9		HA5CC0V	01	HAE5CA	01	1	TT3	F2		34B			
03019		J2117	66		J2101	15				168	9		H8KB15V1	01	HAE1CA	01	1	TT3	E1		31A			
00420		J2117	67										GND	01				TT3						
01380		J2117	68		J2141	33				168	9		HAET4P	02	HAE1CA	01	2	TT3	E1		32A			
01291		J2117	69							168	9		HAENDU	02	HAE6CA	01	1	TT3	F3		35A			
01390		J2117	70							168	9		HAET5P	03	HAE1CA	01	3	TT3	E1		33A			
01338		J2117	71							168	9		HAEN50V	04	HAE5CA	01	2	TT3	F2		36A			
03043		J2117	72		J2101	13				168	9		HBHMS	02	HAE5CA	01	3	TT3	F2		34A		A04	
01404		J2117	73							168	9		HAE4CA	02	HAE4CA	00	1	TT3	F1		36B			
01407		J2117	74							168	9		HAE5CA	03	HAE5CA	00	1	TT3	F2		35B			
03025		J2117	75		J2101	19				168	9		H8KB18V1	01	HAE4CA	01	1	TT3	F1		37B			
03042		J2117	76		J2117	72				168	9		HBHMS	01	HAE6CA	01	2	TT3	F3		37A		A04	
01379		J2117	77		J2117	68				168	9		HAET4P	01	HAE4CA	01	2	TT3	F1		38B			
01341		J2117	78		J2134	65				168	9		HAEN60V	01	HAE6CA	01	3	TT3	F3		38A			
01391		J2117	79		J2117	61				168	9		HAET5Q	01	HAE4CA	01	3	TT3	F1		39B			
01409		J2117	80							168	9		HAE6CA	02	HAE6CA	00	1	TT3	F3		39A			

DRAWING NUMBER WL10281451 CONNECTOR UNIT ASSEMBLY NO. 10281451 REV E INDEX J2118  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 39

RECORD NUMBER	FROM			TO			MULTI GROUP	WIRE CODE	WIRE COLOR	IDENT	EPC INST. ASS'Y	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN																	
03124		J2118	01		J2102	43		168	9			HCD370	01	HAD101E	01	1	TS4	A2		02B			
00421		J2118	02									GND	01				TS4				01A		
03122		J2118	03		J2102	42		168	9			HCD360	01	HAD100E	01	1	TS4	A1			03B		
03126		J2118	04		J2102	45		168	9			HCD380	01	HAD102E	01	1	TS4	A3			02A		
03270		J2118	05		J2119	05		168	9			SPI028	01	HAD100E	01	2	TS4	A1			04B		
03128		J2118	06		J2102	46		168	9			HCD390	01	HAD103E	01	1	TS4	A4			03A		
01186		J2118	07		J2114	23		168	9			HAD100E	01	HAD100E	00	1	TS4	A1			05B		
01102		J2118	08		J2124	01		168	9			HADXYAV	09	HAD101E	01	2	TS4	A2			04A		
01078		J2118	09		J2124	13		168	9			HADXA0V	06	HAD103E	01	2	TS4	A4			06B		
01192		J2118	10		J2112	64		168	9			HAD103E	01	HAD103E	00	1	TS4	A4			05A		
01188		J2118	11		J2112	51		168	9			HAD101E	01	HAD101E	00	1	TS4	A2			07B		
00089		J2118	12									+5V	01				TS4				08A		
01190		J2118	13		J2117	45		168	9			HAD102E	01	HAD102E	00	1	TS4	A3			07A		
03264		J2118	14		J2118	40		168	9			SPI027	06	HAD102E	01	2	TS4	A3			06A		
03132		J2118	15		J2102	48		168	9			HCD410	01	HAD111E	01	1	TS4	B2			08B		
00422		J2118	16									GND	01				TS4				01B		
03130		J2118	17		J2102	47		168	9			HCD400	01	HAD110E	01	1	TS4	B1			09B		
03134		J2118	18		J2102	49		168	9			HCD420	01	HAD112E	01	1	TS4	B3			09A		
03273		J2118	19		J2106	36		168	9			SPI028	04	HAD110E	01	2	TS4	B1			10B	A05	
03136		J2118	20		J2102	50		168	9			HCD430	01	HAD113E	01	1	TS4	B4			10A		
01194		J2118	21		J2106	24		168	9			HAD110E	01	HAD110E	00	1	TS4	B1			11B	A05	
01101		J2118	22		J2118	08		168	9			HADXYAV	08	HAD111E	01	2	TS4	B2			11A		
01077		J2118	23		J2118	09		168	9			HADXA0V	05	HAD113E	01	2	TS4	B4			12B		
01200		J2118	24		J2114	53		168	9			HAD113E	01	HAD113E	00	1	TS4	B4			12A		
01198		J2118	25		J2114	62		168	9			HAD112E	01	HAD112E	00	1	TS4	B3			14A		
03263		J2118	26		J2118	14		168	9			SPI027	05	HAD112E	01	2	TS4	B3			13A		
01196		J2118	27		J2114	68		168	9			HAD111E	01	HAD111E	00	1	TS4	B2			13B		
00090		J2118	28									+5V	01				TS4				08A		
03140		J2118	29		J2102	52		168	9			HCD450	01	HAD121E	01	1	TS4	C2			14B		
03142		J2118	30		J2102	53		168	9			HCD460	01	HAD122E	01	1	TS4	C3			15A		
03138		J2118	31		J2102	51		168	9			HCD440	01	HAD120E	01	1	TS4	C1			15B		
00423		J2118	32									GND	01				TS4				27A		
03276		J2118	33		J2118	45		168	9			SPI028	07	HAD120E	01	2	TS4	C1			16B		
03144		J2118	34		J2102	54		168	9			HCD470	01	HAD123E	01	1	TS4	C4			16A		
01202		J2118	35		J2112	62		168	9			HAD120E	01	HAD120E	00	1	TS4	C1			17B		
01100		J2118	36		J2118	22		168	9			HADXYAV	07	HAD121E	01	2	TS4	C2			17A		
01076		J2118	37		J2118	23		168	9			HADXA0V	04	HAD123E	01	2	TS4	C4			18B		
01208		J2118	38		J2109	65		168	9			HAD123E	01	HAD123E	00	1	TS4	C4			18A		
01204		J2118	39		J2114	77		168	9			HAD121E	01	HAD121E	00	1	TS4	C2			19B		
03265		J2118	40		J2118	54		168	9			SPI027	07	HAD122E	01	2	TS4	C3			19A		
03148		J2118	41		J2102	56		168	9			HCD490	01	HAD131E	01	1	TS4	D2			22B		
01206		J2118	42		J2114	71		168	9			HAD122E	01	HAD122E	00	1	TS4	C3			20A		
03146		J2118	43		J2102	55		168	9			HCD480	01	HAD130E	01	1	TS4	D1			23B		
00424		J2118	44									GND	01				TS4				40A		
03277		J2118	45		J2118	59		168	9			SPI028	08	HAD130E	01	2	TS4	D1			24B		
03150		J2118	46		J2102	57		168	9			HCD500	01	HAD132E	01	1	TS4	D3			21A		
01210		J2118	47		J2114	11		168	9			HAD130E	01	HAD130E	00	1	TS4	D1			25B		
03152		J2118	48		J2102	59		168	9			HCD510	01	HAD133E	01	1	TS4	D4			22A		
01075		J2118	49		J2118	37		168	9			HADXA0V	03	HAD133E	01	2	TS4	D4			26B		
01099		J2118	50		J2118	36		168	9			HADXYAV	06	HAD131E	01	2	TS4	D2			23A		
CONNECTOR (J2118) CONTINUED ON THE NEXT PAGE ****																							

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2118  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 40

RECORD NUMBER	FROM				TO				WIRE				SFC INST MISC	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PLATE	PREFIX	CONNECTOR	PIN	PLATE	MULTI GROUP	CODE	COLOR	IDENT												
01212		J2118	51		J2114	40				168	9		HAD131E	01	HAD131E	00	1	TS4	D2		27B			
01216		J2118	52		J2116	23				168	9		HAD133E	01	HAD133E	00	1	TS4	D4		24A			
03156		J2118	53		J2102	61				168	9		HCD530	01	HAD141E	01	1	TS4	E2		28B			
03266		J2118	54		J2118	66				168	9		SPI027	08	HAD132E	01	2	TS4	D3		25A			
03154		J2118	55		J2102	60				168	9		HCD520	01	HAD140E	01	1	TS4	E1		29B			
01214		J2118	56		J2117	09				168	9		HAD132E	01	HAD132E	00	1	TS4	D3		26A			
03158		J2118	57		J2102	62				168	9		HCD540	01	HAD142E	01	1	TS4	E3		28A			
00425		J2118	58										GND	01				TS4			40B			
03278		J2118	59		J2118	73				168	9		SPI028	09	HAD140E	01	2	TS4	E1		30B			
03160		J2118	60		J2102	63				168	9		HCD550	01	HAD143E	01	1	TS4	E4		29A			
01218		J2118	61		J2106	23				168	9		HAD140E	01	HAD140E	00	1	TS4	E1		31B		A05	
01096		J2118	62		J2119	62				168	9		HADXYAV	03	HAD141E	01	2	TS4	E2		30A			
01074		J2118	63		J2118	49				168	9		HADEA0V	02	HAD143E	01	2	TS4	E4		32B			
01224		J2118	64		J2114	35				168	9		HA0143E	01	HAD143E	00	1	TS4	E4		31A			
01220		J2118	65		J2114	34				168	9		HAD141E	01	HAD141E	00	1	TS4	E2		33B			
03267		J2118	66		J2118	78				168	9		SPI027	09	HAD142E	01	2	TS4	E3		32A			
00426		J2118	67										GND	01				TS4						
01222		J2118	68		J2114	29				168	9		HAD142E	01	HAD142E	00	1	TS4	E3		33A			
03164		J2118	69		J2102	65				168	9		HCD570	01	HAD151E	01	1	TS4	F2		34B			
03166		J2118	70		J2102	66				168	9		HCD580	01	HAD152E	01	1	TS4	F3		34A			
03162		J2118	71		J2102	64				168	9		HCD560	01	HAD150E	01	1	TS4	F1		35B			
03168		J2118	72		J2102	68				168	9		HCD590	01	HAD153E	01	1	TS4	F4		35A			
03279		J2118	73		J2127	52				168	9		SPI028	10	HAD150E	01	2	TS4	F1		36B		D01	
01095		J2118	74		J2118	62				168	9		HADXYAV	02	HAD151E	01	2	TS4	F2		36A			
01226		J2118	75		J2116	17				168	9		HAD150E	01	HAD150E	00	1	TS4	F1		37B			
01232		J2118	76		J2109	42				168	9		HAD153E	01	HAD153E	00	1	TS4	F4		37A			
01073		J2118	77		J2118	63				168	9		HADEA0V	01	HAD153E	01	2	TS4	F4		38B			
03268		J2118	78		J2127	48				168	9		SPI027	10	HAD152E	01	2	TS4	F3		38A			
01228		J2118	79		J2116	21				168	9		HAD151E	01	HAD151E	00	1	TS4	F2		39B			
01230		J2118	80		J2114	54				168	9		HAD152E	01	HAD152E	00	1	TS4	F3		39A			





DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2119  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 42

RECORD NUMBER	FROM				TO				WIRE				SFC INST USED	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	INFO	PREFIX	CONNECTOR	PIN	INFO	MULTI GROUP	CODE	COLOR	IDENT										AND	OR		
01236		J2119	51		J2114	41				168	9		HAD161E	01	HAD161E	00	1	TS4	D2		27B				
01240		J2119	52		J2116	41				168	9		HAD163E	01	HAD163E	00	1	TS4	D4		24A				
03180		J2119	53		J2102	74				168	9		HCD650	01	HAD171E	01	1	TS4	E2		28B				
03301		J2119	54		J2120	54				168	9		SPI030	11	HAD162E	01	2	TS4	O3		25A				
03178		J2119	55		J2102	73				168	9		HCD640	01	HAD170E	01	1	TS4	E1		29B				
01238		J2119	56		J2117	38				168	9		HAD162E	01	HAD162E	00	1	TS4	D3		26A				
03182		J2119	57		J2102	75				168	9		HCD660	01	HAD172E	01	1	TS4	E3		28A				
00431		J2119	58										GND	01				TS4			40B				
03314		J2119	59		J2119	73				168	9		SPI031	11	HAD170E	01	2	TS4	E1		30B				
03184		J2119	60		J2102	76				168	9		HCD670	01	HAD173E	01	1	TS4	E4		29A				
01242		J2119	61		J2116	45				168	9		HAD170E	01	HAD170E	00	1	TS4	E1		31B				
01097		J2119	62		J2119	50				168	9		HADXYAV	04	HAD171E	01	2	TS4	E2		30A				
01088		J2119	63		J2119	49				168	9		HADECOV	02	HAD173E	01	2	TS4	E4		32B				
01248		J2119	64		J2114	76				168	9		HAD173E	01	HAD173E	00	1	TS4	E4		31A				
01244		J2119	65		J2114	47				168	9		HAD171E	01	HAD171E	00	1	TS4	E2		33B				
03300		J2119	66		J2119	54				168	9		SPI030	10	HAD172E	01	2	TS4	E3		32A				
00432		J2119	67										GND	01				TS4							
01246		J2119	68		J2114	65				168	9		HAD172E	01	HAD172E	00	1	TS4	E3		33A				
03188		J2119	69		J2102	78				168	9		HCD690	01	HAD181E	01	1	TS4	F2		34B				
03190		J2119	70		J2102	79				168	9		HCD700	01	HAD182E	01	1	TS4	F3		34A				
03186		J2119	71		J2102	77				168	9		HCD680	01	HAD180E	01	1	TS4	F1		35B				
03192		J2119	72		J2102	80				168	9		HCD710	01	HAD183E	01	1	TS4	F4		35A				
03315		J2119	73		J2120	73				168	9		SPI031	12	HAD180E	01	2	TS4	F1		36B				
01094		J2119	74		J2118	74				168	9		HADXYAV	01	HAD181E	01	2	TS4	F2		36A				
01250		J2119	75		J2106	35				168	9		HAD180E	01	HAD180E	00	1	TS4	F1		37B		A05		
01256		J2119	76		J2116	61				168	9		HAD183E	01	HAD183E	00	1	TS4	F4		37A		A05		
01087		J2119	77		J2119	63				168	9		HADECOV	01	HAD183E	01	2	TS4	F4		38B				
03297		J2119	78		J2120	78				168	9		SPI030	07	HAD182E	01	2	TS4	F3		38A				
01252		J2119	79		J2116	64				168	9		HAD181E	01	HAD181E	00	1	TS4	F2		39B				
01254		J2119	80		J2109	78				168	9		HAD182E	01	HAD182E	00	1	TS4	F3		39A		A05		

DRAWING NUMBER WL10281451 CONNECTOR UNIT ASSEMBLY NO. 10281451 REV E INDEX J2120  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 43

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERMIN	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	ENV	PREFIX	CONNECTOR	PIN	ENV	MULTI GROUP	CODE	COLOR											
03052		J2120	01		J2102	03				168	9		HCD010 GND	01 01	HAD011E	01 1	TS4	A2		02B		
00433		J2120	02		J2102	04				168	9						TS4				01A	
03050		J2120	03		J2102	01				168	9		HCD000	01	HAD010E	01 1	TS4	A1		03B		
03054		J2120	04		J2102	04				168	9		HCD020	01	HAD012E	01 1	TS4	A3		02A		
03307		J2120	05		J2120	19				168	9		SPI031	04	HAD010E	01 2	TS4	A1		04B		
03056		J2120	06		J2102	05				168	9		HCD030	01	HAD013E	01 1	TS4	A4		03A		
01114		J2120	07		J2109	08				168	9		HAD010E	01	HAD010E	00 1	TS4	A1		05B		
01111		J2120	08		J2119	08				168	9		HADXZAV	08	HAD011E	01 2	TS4	A2		04A		
01085		J2120	09		J2124	08				168	9		HADEBOV	06	HAD013E	01 2	TS4	A4		06B		
01120		J2120	10		J2108	22				168	9		HAD013E	01	HAD013E	00 1	TS4	A4		05A		
01116		J2120	11		J2108	04				168	9		HAD011E	01	HAD011E	00 1	TS4	A2		07B		
00093		J2120	12										+5V	01			TS4			08A		
01118		J2120	13		J2117	06				168	9		HAD012E	01	HAD012E	00 1	TS4	A3		07A		
03291		J2120	14		J2119	14				168	9		SPI030	01	HAD012E	01 2	TS4	A3		06A		
03060		J2120	15		J2102	07				168	9		HCD050 GND	01 01	HAD021E	01 1	TS4	B2		08B		
00434		J2120	16														TS4			01B		
03058		J2120	17		J2102	06				168	9		HCD040	01	HAD020E	01 1	TS4	B1		09B		
03062		J2120	18		J2102	08				168	9		HCD060	01	HAD022E	01 1	TS4	B3		09A		
03308		J2120	19		J2120	33				168	9		SPI031	05	HAD020E	01 2	TS4	B1		10B		
03064		J2120	20		J2102	09				168	9		HCD070	01	HAD023E	01 1	TS4	B4		10A		
01122		J2120	21		J2109	03				168	9		HAD020E	01	HAD020E	00 1	TS4	B1		11B		
01110		J2120	22		J2120	08				168	9		HADXZAV	07	HAD021E	01 2	TS4	B2		11A		
01084		J2120	23		J2120	09				168	9		HADEBOV	05	HAD023E	01 2	TS4	B4		12B		
01128		J2120	24		J2117	35				168	9		HAD023E	01	HAD023E	00 1	TS4	B4		12A	A05	
01126		J2120	25		J2117	29				168	9		HAD022E	01	HAD022E	00 1	TS4	B3		14A	A05	
03294		J2120	26		J2120	40				168	9		SPI030	04	HAD022E	01 2	TS4	B3		13A		
01124		J2120	27		J2106	40				168	9		HAD021E	01	HAD021E	00 1	TS4	B2		13B		
00094		J2120	28										+5V	01			TS4			08A		
03068		J2120	29		J2102	11				168	9		HCD090	01	HAD031E	01 1	TS4	C2		14B		
03070		J2120	30		J2102	13				168	9		HCD100	01	HAD032E	01 1	TS4	C3		15A		
03066		J2120	31		J2102	10				168	9		HCD080	01	HAD030E	01 1	TS4	C1		15B		
00435		J2120	32										GND	01			TS4			27A		
03309		J2120	33		J2119	33				168	9		SPI031	06	HAD030E	01 2	TS4	C1		16B		
03072		J2120	34		J2102	14				168	9		HCD110	01	HAD033E	01 1	TS4	C4		16A		
01130		J2120	35		J2108	38				168	9		HAD030E	01	HAD030E	00 1	TS4	C1		17B		
01107		J2120	36		J2119	36				168	9		HADXZAV	04	HAD031E	01 2	TS4	C2		17A		
01083		J2120	37		J2120	23				168	9		HADEBOV	04	HAD033E	01 2	TS4	C4		18B		
01136		J2120	38		J2109	23				168	9		HAD033E	01	HAD033E	00 1	TS4	C4		18A		
01132		J2120	39		J2108	61				168	9		HAD031E	01	HAD031E	00 1	TS4	C2		19B		
03295		J2120	40		J2119	40				168	9		SPI030	05	HAD032E	01 2	TS4	C3		19A		
03076		J2120	41		J2102	17				168	9		HCD130	01	HAD041E	01 1	TS4	D2		22B		
01134		J2120	42		J2117	52				168	9		HAD032E	01	HAD032E	00 1	TS4	C3		20A		
03074		J2120	43		J2102	15				168	9		HCD120	01	HAD040E	01 1	TS4	D1		23B		
00436		J2120	44										GND	01			TS4			40A		
03312		J2120	45		J2120	59				168	9		SPI031	09	HAD040E	01 2	TS4	D1		24B		
03078		J2120	46		J2102	18				168	9		HCD140	01	HAD042E	01 1	TS4	D3		21A		
01138		J2120	47		J2109	41				168	9		HAD040E	01	HAD040E	00 1	TS4	D1		25B		
03080		J2120	48		J2102	19				168	9		HCD150	01	HAD043E	01 1	TS4	D4		22A		
01082		J2120	49		J2120	37				168	9		HADEBOV	03	HAD043E	01 2	TS4	D4		26B		
01106		J2120	50		J2120	36				168	9		HADXZAV	03	HAD041E	01 2	TS4	D2		23A		
CONNECTOR		J2120	CONTINUED ON THE NEXT PAGE ****																			

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2120  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 44

RECORD NUMBER	FROM				TO				WIRE				SPEC INST	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT												
01140		J2120	51							168	9			HAD041E	01	HAD041E	00	1	TS4	D2		27B		A02
01144		J2120	52		J2108	59				168	9			HAD043E	01	HAD043E	00	1	TS4	D4		24A		
03084		J2120	53		J2102	21				168	9			HCD170	01	HAD051E	01	1	TS4	E2		28B		
03302		J2120	54		J2127	51				168	9			SPI030	12	HAD042E	01	2	TS4	D3		25A		
03082		J2120	55		J2102	20				168	9			HCD160	01	HAD050E	01	1	TS4	E1		29B		
01143		J2120	56							168	9			HAD042E	02	HAD042E	00	1	TS4	D3		26A		
03086		J2120	57		J2102	22				168	9			HCD180	01	HAD052E	01	1	TS4	E3		28A		
00437		J2120	58											GND	01				TS4			40B		
03313		J2120	59		J2119	59				168	9			SPI031	10	HAD050E	01	2	TS4	E1		30B		
03088		J2120	60		J2102	23				168	9			HCD190	01	HAD053E	01	1	TS4	E4		29A		
01146		J2120	61		J2106	18				168	9			HAD050E	01	HAD050E	00	1	TS4	E1		31B		A05
01105		J2120	62		J2120	50				168	9			HADXZAV	02	HAD051E	01	2	TS4	E2		30A		
01081		J2120	63		J2120	49				168	9			HADEB0V	02	HAD053E	01	2	TS4	E4		32B		
01152		J2120	64		J2106	59				168	9			HAD053E	01	HAD053E	00	1	TS4	E4		31A		
01148		J2120	65		J2117	41				168	9			HAD051E	01	HAD051E	00	1	TS4	E2		33B		
03299		J2120	66		J2119	66				168	9			SPI030	09	HAD052E	01	2	TS4	E3		32A		
00438		J2120	67											GND	01				TS4					
01150		J2120	68		J2135	14				168	9			HAD052E	01	HAD052E	00	1	TS4	E3		33A		A05
03092		J2120	69		J2102	25				168	9			HCD210	01	HAD061E	01	1	TS4	F2		34B		
03094		J2120	70		J2102	26				168	9			HCD220	01	HAD062E	01	1	TS4	F3		34A		
03090		J2120	71		J2102	24				168	9			HCD200	01	HAD060E	01	1	TS4	F1		35B		
03096		J2120	72		J2102	27				168	9			HCD230	01	HAD063E	01	1	TS4	F4		35A		
03316		J2120	73							168	9			SPI031	13	HAD060E	01	2	TS4	F1		36B		
01104		J2120	74		J2120	62				168	9			HADXZAV	01	HAD061E	01	2	TS4	F2		36A		
01154		J2120	75		J2108	76				168	9			HAD060E	01	HAD060E	00	1	TS4	F1		37B		
01160		J2120	76		J2106	76				168	9			HAD063E	01	HAD063E	00	1	TS4	F4		37A		
01080		J2120	77		J2120	63				168	9			HADEB0V	01	HAD063E	01	2	TS4	F4		38B		
03298		J2120	78		J2120	66				168	9			SPI030	08	HAD062E	01	2	TS4	F3		38A		
01156		J2120	79		J2108	75				168	9			HAD061E	01	HAD061E	00	1	TS4	F2		39B		
01158		J2120	80		J2109	71				168	9			HAD062E	01	HAD062E	00	1	TS4	F3		39A		

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX J2121  
 DATE 09-01-82 PAGE 45

RECORD NUMBER	FROM			S I	TO			MULTI GROUP	WIRE			S I	SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GRUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		CODE	COLOR	IDENT										AND	OR		
00139		J2121	01									DNW	01				R05							
00439		J2121	02									GND	02				R05							
00140		J2121	03									DNW	01				R05							
00141		J2121	04									DNW	01				R05							
00142		J2121	05									DNW	01				R05							
00143		J2121	06									DNW	01				R05							
00144		J2121	07									DNW	01				R05							
00145		J2121	08									DNW	01				R05							
00146		J2121	09									DNW	01				R05							
00147		J2121	10									DNW	01				R05							
00148		J2121	11									DNW	01				R05							
00095		J2121	12									+5V	01				R05							
02107		J2121	13		J2121	37					168 9	HAHA00V	04	HAH011V101	1	R05	A1							
00149		J2121	14									DNW	01				R05							
02180		J2121	15		J2107	10					168 9	HAH011V1	02	HAH011V100	1	R05	A1				T01			
00440		J2121	16									GND	01				R05							
02120		J2121	17		J2121	39					168 9	HAHA10V	04	HAH012V101	1	R05	A2							
02184		J2121	18		J2107	05					168 9	HAH012V1	02	HAH012V100	1	R05	A2				T02			
02139		J2121	19								168 9	HAHA20V	10	HAH013V101	1	R05	A3							
02188		J2121	20		J2107	07					168 9	HAH013V1	02	HAH013V100	1	R05	A3				T03			
02791		J2121	21		J2121	23					168 9	HARM40V	03	HAH017V101	1	R05	A7							
02192		J2121	22		J2107	13					168 9	HAH014V1	02	HAH014V100	1	R05	A4				T04			
02792		J2121	23		J2121	45					168 9	HARM40V	04	HAH018V101	1	R05	A8							
02196		J2121	24		J2107	26					168 9	HAH015V1	02	HAH015V100	1	R05	A5				T05			
02146		J2121	25		J2121	49					168 9	HAHA30V	04	HAH014V101	1	R05	A4							
02200		J2121	26		J2107	20					168 9	HAH016V1	02	HAH016V100	1	R05	A6				T06			
02162		J2121	27		J2122	27					168 9	HAHA40V	07	HAH015V101	1	R05	A5							
00096		J2121	28									+5V	01				R05							
02204		J2121	29		J2107	19					168 9	HAH017V1	02	HAH017V100	1	R05	A7				T07			
00150		J2121	30									DNW	01				R05							
02172		J2121	31		J2121	53					168 9	HAHA50V	04	HAH016V101	1	R05	A6							
00441		J2121	32									GND	01				R05							
00151		J2121	33									DNW	01				R05							
02208		J2121	34		J2107	25					168 9	HAH018V1	02	HAH018V100	1	R05	A8				T08			
00152		J2121	35									DNW	01				R05							
00153		J2121	36									DNW	01				R05							
02108		J2121	37		J2122	37					168 9	HAHA00V	05	HAH021V101	1	R05	B1							
02212		J2121	38		J2107	42					168 9	HAH021V1	02	HAH021V100	1	R05	B1				T09			
02121		J2121	39		J2122	39					168 9	HAHA10V	05	HAH022V101	1	R05	B2							
02216		J2121	40		J2107	36					168 9	HAH022V1	02	HAH022V100	1	R05	B2				T10			
02133		J2121	41		J2122	41					168 9	HAHA20V	04	HAH023V101	1	R05	B3							
02220		J2121	42		J2107	31					168 9	HAH023V1	02	HAH023V100	1	R05	B3				T11			
00154		J2121	43									DNW	01				R05							
00442		J2121	44									GND	01				R05							
02793		J2121	45		J2121	47					168 9	HARM40V	05	HAH027V101	1	R05	B7							
02224		J2121	46		J2107	37					168 9	HAH024V1	02	HAH024V100	1	R05	B4				T12			
02794		J2121	47		J2121	63					168 9	HARM40V	06	HAH028V101	1	R05	B8							
02228		J2121	48		J2107	56					168 9	HAH025V1	02	HAH025V100	1	R05	B5				T13			
02147		J2121	49		J2122	49					168 9	HAHA30V	05	HAH024V101	1	R05	B4							
02232		J2121	50		J2107	50					168 9	HAH026V1	02	HAH026V100	1	R05	B6				T14			
CONNECTOR (J2121) CONTINUED ON THE NEXT PAGE ****																								

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2121  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 46

RECORD NUMBER	FROM				TO				WIRE				SFC INST	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	TYPE	PREFIX	CONNECTOR	PIN	TYPE	MULTI GROUP	CODE	COLOR	IDENT												
02161		J2121	51		J2121	27				168	9			HAHA40V	06	HAH025V101	1	R05	B5					
02236		J2121	52		J2107	43				168	9			HAH027V1	02	HAH027V100	1	R05	B7			T15		
02173		J2121	53		J2122	53				168	9			HAHA50V	05	HAH026V101	1	R05	B6					
02240		J2121	54		J2107	49				168	9			HAH028V1	02	HAH028V100	1	R05	B8			T16		
00155		J2121	55											DNW	01			R05						
00156		J2121	56											DNW	01			R05						
00157		J2121	57											DNW	01			R05						
00443		J2121	58											GND	01			R05						
02126		J2121	59							168	9			HAHA10V	10	HAH032V101	1	R05	C2					
02112		J2121	60		J2123	60				168	9			HAHA00V	09	HAH031V101	1	R05	C1					
02132		J2121	61		J2121	41				168	9			HAHA20V	03	HAH033V101	1	R05	C3					
02244		J2121	62		J2107	70				168	9			HAH031V1	02	HAH031V100	1	R05	C1			T17		
02795		J2121	63		J2121	65				168	9			HARN40V	07	HAH037V101	1	R05	C7					
02248		J2121	64		J2107	64				168	9			HAH032V1	02	HAH032V100	1	R05	C2			T18		
02796		J2121	65		J2136	71				168	9			HARN40V	08	HAH038V101	1	R05	C8					
02252		J2121	66		J2107	55				168	9			HAH033V1	02	HAH033V100	1	R05	C3			T19		
00444		J2121	67											GND	01			R05						
02256		J2121	68		J2107	61				168	9			HAH034V1	02	HAH034V100	1	R05	C4			T21		
02152		J2121	69							168	9			HAHA30V	10	HAH034V101	1	R05	C4					
02260		J2121	70		J2107	79				168	9			HAH035V1	02	HAH035V100	1	R05	C5			T20		
02156		J2121	71		J2122	71				168	9			HAHA40V	01	HAH035V101	1	R05	C5					
02264		J2121	72		J2107	73				168	9			HAH036V1	02	HAH036V100	1	R05	C6			T22		
02178		J2121	73							168	9			HAHA50V	10	HAH036V101	1	R05	C6					
02268		J2121	74		J2107	74				168	9			HAH037V1	02	HAH037V100	1	R05	C7			T23		
00158		J2121	75											DNW	01			R05						
02272		J2121	76		J2107	78				168	9			HAH038V1	02	HAH038V100	1	R05	C8			T24		
00159		J2121	77											DNW	01			R05						
00160		J2121	78											DNW	01			R05						
00161		J2121	79											DNW	01			R05						
00162		J2121	80											DNW	01			R05						

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2122  
 FILE IDENT TSQ3M2 DATE 09-01-82 PAGE 47

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEC NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH/PC	PREFIX	CONNECTOR	PIN	SH/PC	MULTI GROUP	CODE	COLOR	IDENT											
00163	J2122	01											DNW	01				RO5					
00445	J2122	02											GND	01				RO5					
00164	J2122	03											DNW	01				RO5					
00165	J2122	04											DNW	01				RO5					
00166	J2122	05											DNW	01				RO5					
00167	J2122	06											DNW	01				RO5					
00168	J2122	07											DNW	01				RO5					
00169	J2122	08											DNW	01				RO5					
00170	J2122	09											DNW	01				RO5					
00171	J2122	10											DNW	01				RO5					
00172	J2122	11											DNW	01				RO5					
00097	J2122	12											+5V	01				RO5					
02106	J2122	13			J2121	13				168	9		HAHA00V	03	HAH041V1	01	1	RO5	A1				
00173	J2122	14											DNW	01				RO5					
02276	J2122	15			J2110	10				168	9		HAH041V1	02	HAH041V1	00	1	RO5	A1		T01		
00446	J2122	16											GND	01				RO5					
02119	J2122	17			J2121	17				168	9		HAHA10V	03	HAH042V1	01	1	RO5	A2				
02280	J2122	18			J2110	05				168	9		HAH042V1	02	HAH042V1	00	1	RO5	A2		T02		
02138	J2122	19			J2121	19				168	9		HAHA20V	09	HAH043V1	01	1	RO5	A3				
02284	J2122	20			J2110	07				168	9		HAH043V1	02	HAH043V1	00	1	RO5	A3		T03		
02790	J2122	21			J2121	21				168	9		HARM40V	02	HAH047V1	01	1	RO5	A7				
02288	J2122	22			J2110	13				168	9		HAH044V1	02	HAH044V1	00	1	RO5	A4		T04		
02789	J2122	23			J2122	21				168	9		HARM40V	01	HAH048V1	01	1	RO5	A8				
02292	J2122	24			J2110	26				168	9		HAH045V1	02	HAH045V1	00	1	RO5	A5		T05		
02145	J2122	25			J2121	25				168	9		HAHA30V	03	HAH044V1	01	1	RO5	A4				
02296	J2122	26			J2110	20				168	9		HAH046V1	02	HAH046V1	00	1	RO5	A6		T06		
02163	J2122	27			J2123	27				168	9		HAHA40V	08	HAH045V1	01	1	RO5	A5				
00098	J2122	28											+5V	01				RO5					
02300	J2122	29			J2110	19				168	9		HAH047V1	02	HAH047V1	00	1	RO5	A7		T07		
00174	J2122	30											DNW	01				RO5					
02171	J2122	31			J2121	31				168	9		HAHA50V	03	HAH046V1	01	1	RO5	A6				
00447	J2122	32											GND	01				RO5					
00175	J2122	33											DNW	01				RO5					
02304	J2122	34			J2110	25				168	9		HAH048V1	02	HAH048V1	00	1	RO5	A8		T08		
00176	J2122	35											DNW	01				RO5					
00177	J2122	36											DNW	01				RO5					
02109	J2122	37			J2123	37				168	9		HAHA00V	06	HAH051V1	01	1	RO5	B1				
02308	J2122	38			J2110	42				168	9		HAH051V1	02	HAH051V1	00	1	RO5	B1		T09		
02122	J2122	39			J2123	39				168	9		HAHA10V	06	HAH052V1	01	1	RO5	B2				
02312	J2122	40			J2110	36				168	9		HAH052V1	02	HAH052V1	00	1	RO5	B2		T10		
02134	J2122	41			J2123	41				168	9		HAHA20V	05	HAH053V1	01	1	RO5	B3				
02316	J2122	42			J2110	31				168	9		HAH053V1	02	HAH053V1	00	1	RO5	B3		T11		
00178	J2122	43											DNW	01				RO5					
00448	J2122	44											GND	01				RO5					
02803	J2122	45			J2122	47				168	9		HARM50V	06	HAH057V1	01	1	RO5	B7				
02320	J2122	46			J2110	37				168	9		HAH054V1	02	HAH054V1	00	1	RO5	B4		T12		
02804	J2122	47			J2123	47				168	9		HARM50V	07	HAH058V1	01	1	RO5	B8				
02324	J2122	48			J2110	56				168	9		HAH055V1	02	HAH055V1	00	1	RO5	B5		T13		
02148	J2122	49			J2123	49				168	9		HAHA30V	06	HAH054V1	01	1	RO5	B4				
02328	J2122	50			J2110	50				168	9		HAH056V1	02	HAH056V1	00	1	RO5	B6		T14		
CONNECTOR (J2122) CONTINUED ON THE NEXT PAGE ****																							

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2122  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 48

RECORD NUMBER	FROM			SIZE	TO			MULTI GROUP	WIRE			SPEC INST	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		CODE	COLOR	IDENT										AND OR				
02160		J2122	51		J2121	51			168	9			HAA40V	05	HAH055V101	1	R05	B5							
02332		J2122	52		J2110	43			168	9			HAA057V1	02	HAH057V100	1	R05	B7			T15				
02174		J2122	53		J2123	53			168	9			HAA50V	06	HAH056V101	1	R05	B6							
02336		J2122	54		J2110	49			168	9			HAA058V1	02	HAH058V100	1	R05	B8			T16				
00179		J2122	55										DNW	01			R05								
00180		J2122	56										DNW	01			R05								
00181		J2122	57										DNW	01			R05								
00449		J2122	58										GND	01			R05								
02125		J2122	59		J2121	59			168	9			HAA10V	09	HAH062V101	1	R05	C2							
02111		J2122	60		J2121	60			168	9			HAA00V	08	HAH061V101	1	R05	C1							
02131		J2122	61		J2121	61			168	9			HAA20V	02	HAH063V101	1	R05	C3							
02340		J2122	62		J2110	70			168	9			HAA061V1	02	HAH061V100	1	R05	C1			T17				
02802		J2122	63		J2122	45			168	9			HAA50V	05	HAH067V101	1	R05	C7							
02344		J2122	64		J2110	64			168	9			HAA062V1	02	HAH062V100	1	R05	C2			T18				
02801		J2122	65		J2122	63			168	9			HAA50V	04	HAH068V101	1	R05	C8							
02348		J2122	66		J2110	55			168	9			HAA063V1	02	HAH063V100	1	R05	C3			T19				
00450		J2122	67										GND	01			R05								
02352		J2122	68		J2110	61			168	9			HAA064V1	02	HAH064V100	1	R05	C4			T21				
02151		J2122	69		J2121	69			168	9			HAA30V	09	HAH064V101	1	R05	C4							
02356		J2122	70		J2110	79			168	9			HAA065V1	02	HAH065V100	1	R05	C5			T20				
02157		J2122	71		J2123	71			168	9			HAA40V	02	HAH065V101	1	R05	C5							
02360		J2122	72		J2110	73			168	9			HAA066V1	02	HAH066V100	1	R05	C6			T22				
02177		J2122	73		J2121	73			168	9			HAA50V	09	HAH066V101	1	R05	C6							
02364		J2122	74		J2110	74			168	9			HAA067V1	02	HAH067V100	1	R05	C7			T23				
00182		J2122	75										DNW	01			R05								
02368		J2122	76		J2110	78			168	9			HAA068V1	02	HAH068V100	1	R05	C8			T24				
00183		J2122	77										DNW	01			R05								
00184		J2122	78										DNW	01			R05								
00185		J2122	79										DNW	01			R05								
00186		J2122	80										DNW	01			R05								



DRAWING NUMBER WL10281451 CONNECTOR UNIT ASSEMBLY NO. 10281451 REV E INDEX J2123  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 49

RECORD NUMBER	FROM				TO				WIRE				SPEC. INST. MISC.	SIGNAL	SEQ NO	EQUATION	TERM.	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	SH. FC	PREFIX	CONNECTOR	PIN	SH. FC	MULTI GROUP	CODE	COLOR	IDENT													
00187		J2123	01										DNW	01					R05						
00451		J2123	02										GND	01					R05						
00188		J2123	03										DNW	01					R05						
00189		J2123	04										DNW	01					R05						
00190		J2123	05										DNW	01					R05						
00191		J2123	06										DNW	01					R05						
00192		J2123	07										DNW	01					R05						
00193		J2123	08										DNW	01					R05						
00194		J2123	09										DNW	01					R05						
00195		J2123	10										DNW	01					R05						
00196		J2123	11										DNW	01					R05						
00099		J2123	12										+5V	01					R05						
02105		J2123	13		J2122	13				168	9		HAHA00V	02	HAH071V1	01	1	R05	A1						
00197		J2123	14									DNW	01					R05							
02372		J2123	15		J2113	10				168	9		HAH071V1	02	HAH071V1	00	1	R05	A1			T01			
00452		J2123	16									GND	01					R05							
02118		J2123	17		J2122	17				168	9		HAHA10V	02	HAH072V1	01	1	R05	A2						
02376		J2123	18		J2113	05				168	9		HAH072V1	02	HAH072V1	00	1	R05	A2			T02			
02137		J2123	19		J2122	19				168	9		HAHA20V	08	HAH073V1	01	1	R05	A3						
02380		J2123	20		J2113	07				168	9		HAH073V1	02	HAH073V1	00	1	R05	A3			T03			
02808		J2123	21							168	9		HARM50V	11	HAH077V1	01	1	R05	A7						
02384		J2123	22		J2113	13				168	9		HAH074V1	02	HAH074V1	00	1	R05	A4			T04			
02807		J2123	23		J2123	21				168	9		HARM50V	10	HAH078V1	01	1	R05	A8						
02388		J2123	24		J2113	26				168	9		HAH075V1	02	HAH075V1	00	1	R05	A5			T05			
02144		J2123	25		J2122	25				168	9		HAHA30V	02	HAH074V1	01	1	R05	A4						
02392		J2123	26		J2113	20				168	9		HAH076V1	02	HAH076V1	00	1	R05	A6			T06			
02164		J2123	27		J2124	14				168	9		HAHA40V	09	HAH075V1	01	1	R05	A5						
00100		J2123	28									+5V	01					R05							
02396		J2123	29		J2113	19				168	9		HAH077V1	02	HAH077V1	00	1	R05	A7			T07			
00198		J2123	30									DNW	01					R05							
02170		J2123	31		J2122	31				168	9		HAHA50V	02	HAH076V1	01	1	R05	A6						
00453		J2123	32									GND	01					R05							
00199		J2123	33									DNW	01					R05							
02400		J2123	34		J2113	25				168	9		HAH078V1	02	HAH078V1	00	1	R05	A8			T08			
00200		J2123	35									DNW	01					R05							
00201		J2123	36									DNW	01					R05							
02110		J2123	37		J2122	60				168	9		HAHA00V	07	HAH081V1	01	1	R05	B1						
02404		J2123	38		J2113	42				168	9		HAH081V1	02	HAH081V1	00	1	R05	B1			T09			
02123		J2123	39		J2123	59				168	9		HAHA10V	07	HAH082V1	01	1	R05	B2						
02408		J2123	40		J2113	36				168	9		HAH082V1	02	HAH082V1	00	1	R05	B2			T10			
02135		J2123	41		J2124	25				168	9		HAHA20V	06	HAH083V1	01	1	R05	B3						
02412		J2123	42		J2113	31				168	9		HAH083V1	02	HAH083V1	00	1	R05	B3			T11			
00202		J2123	43									DNW	01					R05							
00454		J2123	44									GND	01					R05							
02806		J2123	45		J2123	23				168	9		HARM50V	09	HAH087V1	01	1	R05	B7						
02416		J2123	46		J2113	37				168	9		HAH084V1	02	HAH084V1	00	1	R05	B4			T12			
02805		J2123	47		J2123	45				168	9		HARM50V	08	HAH088V1	01	1	R05	B8						
02420		J2123	48		J2113	56				168	9		HAH085V1	02	HAH085V1	00	1	R05	B5			T13			A02
02149		J2123	49		J2123	69				168	9		HAHA30V	07	HAH084V1	01	1	R05	B4						
02423		J2123	50		J2113	50				168	9		HAH086V1	02	HAH086V1	00	1	R05	B6			T14			
CONNECTOR (J2123) CONTINUED ON THE NEXT PAGE ****																									

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX J2123  
 DATE 09-01-82 PAGE 50

RECORD NUMBER	FROM				TO				WIRE				SFC INST MISC	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	POS	PREFIX	CONNECTOR	PIN	POS	MULTI GROUP	CODE	COLOR	IDENT													
02159		J2123	51		J2122	51				16B	9		HAHA40V	04	HAH085V101	1	R05	B5							
02427		J2123	52		J2113	43				16B	9		HAH087V1	02	HAH087V100	1	R05	B7			T15				
02175		J2123	53		J2123	73				16B	9		HAHA50V	07	HAH086V101	1	R05	B6							
02431		J2123	54		J2113	49				16B	9		HAH088V1	02	HAH088V100	1	R05	B8			T16				
00203		J2123	55										DNW	01			R05								
00204		J2123	56										DNW	01			R05								
00205		J2123	57										DNW	01			R05								
00455		J2123	58										GND	01			R05								
02124		J2123	59		J2122	59				16B	9		HAHA10V	08	HAH092V101	1	R05	C2							
02113		J2123	60							16B	9		HAHA00V	10	HAH091V101	1	R05	C1							
02130		J2123	61		J2122	61				16B	9		HAHA20V	01	HAH093V101	1	R05	C3							
02435		J2123	62		J2113	70				16B	9		HAH091V1	02	HAH091V100	1	R05	C1			T17				
02799		J2123	63		J2123	65				16B	9		HARM50V	02	HAH097V101	1	R05	C7							
02439		J2123	64		J2113	64				16B	9		HAH092V1	02	HAH092V100	1	R05	C2			T18				
02800		J2123	65		J2122	65				16B	9		HARM50V	03	HAH098V101	1	R05	C8							
02443		J2123	66		J2113	55				16B	9		HAH093V1	02	HAH093V100	1	R05	C3			T19		A01		
00456		J2123	67										GND	01			R05								
02446		J2123	68		J2113	61				16B	9		HAH094V1	02	HAH094V100	1	R05	C4			T21				
02150		J2123	69		J2122	69				16B	9		HAHA30V	08	HAH094V101	1	R05	C4							
02450		J2123	70		J2113	79				16B	9		HAH095V1	02	HAH095V100	1	R05	C5			T20				
02158		J2123	71		J2123	51				16B	9		HAHA40V	03	HAH095V101	1	R05	C5							
02454		J2123	72		J2113	73				16B	9		HAH096V1	02	HAH096V100	1	R05	C6			T22				
02176		J2123	73		J2122	73				16B	9		HAHA50V	08	HAH096V101	1	R05	C6							
02458		J2123	74		J2113	74				16B	9		HAH097V1	02	HAH097V100	1	R05	C7			T23				
00206		J2123	75										DNW	01			R05								
02464		J2123	76		J2127	46				16B	9		HAH098V1	04	HAH098V100	1	R05	C8			T24				
00207		J2123	77										DNW	01			R05								
00208		J2123	78										DNW	01			R05								
00209		J2123	79										DNW	01			R05								
00210		J2123	80										DNW	01			R05								

DRAWING NUMBER WL10281451 CONNECTOR  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

REV E INDEX J2124  
DATE 09-01-82 PAGE 51

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	S E C N O	EQUATION	T E R M	F A C T O R	C K T O R C H I P T Y P E	G R O P	L O A D O R P O W E R P L A N E	T E S T P O I N T S A N D O R	S I G N A L D E S C R I P T I O N	E C O N O
	P R E F I X	C O N N E C T O R	P I N	P R E F I X	C O N N E C T O R	P I N	S E R I E S G R O U P	C O D E	C O L O R	I D E N T											
01103		J2124	01					168	9		HADXYAV	10	HADXYAV	00	1	THI	A4		02B		
00457		J2124	02								GND	01			THI				01A		
01093		J2124	03					168	9		HADECOV	07	HADECOV	00	1	THI	A3		03A		
03038		J2124	04		J2124	06		168	9		HBTE3A	02	HADECOV	01	1	THI	A3		02A		
03306		J2124	05		J2120	05		168	9		SPI031	03	HADXYAV	01	1	THI	A4		03B		
03039		J2124	06		J2124	11		168	9		HBTE3A	03	HADEBOV	01	1	THI	A2		05A		
01113		J2124	07					168	9		HADZAV	10	HADZAV	00	1	THI	A5		04B		
01086		J2124	08					168	9		HADEBOV	07	HADEBOV	00	1	THI	A2		04A		
03305		J2124	09		J2124	05		168	9		SPI031	02	HADZAV	01	1	THI	A5		05B		
02104		J2124	10		J2123	13		168	9		HAHA00V	01	HAHA00V	00	1	THI	A6		06B		
03040		J2124	11		J2101	10		168	9		HBTE3A	04	HADEAOV	01	1	THI	A1		07A		
00101		J2124	12								+5V	01			THI						
01079		J2124	13					168	9		HADEAOV	07	HADEAOV	00	1	THI	A1		06A		
02165		J2124	14					168	9		HAHA40V	10	HAHA40V	00	1	THI	B4		08B		
02102		J2124	15		J2105	73		168	9		HAHA0AV	02	HAHA00V	01	1	THI	A6		07B		
00458		J2124	16								GND	01			THI				20B		
02154		J2124	17		J2105	77		168	9		HAHA4AV	02	HAHA40V	01	1	THI	B4		09B		
02143		J2124	18		J2123	25		168	9		HAHA30V	01	HAHA30V	00	1	THI	B3		09A		
02169		J2124	19		J2123	31		168	9		HAHA50V	01	HAHA50V	00	1	THI	B5		10B		
02141		J2124	20		J2105	76		168	9		HAHA3AV	02	HAHA30V	01	1	THI	B3		10A		
02167		J2124	21		J2105	78		168	9		HAHA5AV	02	HAHA50V	01	1	THI	B5		11B		
02115		J2124	22		J2105	74		168	9		HAHA1AV	02	HAHA10V	01	1	THI	B1		14A		
02128		J2124	23		J2105	75		168	9		HAHA2AV	02	HAHA20V	01	1	THI	B2		12A		
02117		J2124	24		J2123	17		168	9		HAHA10V	01	HAHA10V	00	1	THI	B1		13A		
02136		J2124	25		J2123	19		168	9		HAHA20V	07	HAHA20V	00	1	THI	B2		11A		
01420		J2124	26					168	9		HAGAAV	05	HAGAAV	00	1	THI	B6		12B		
01305		J2124	27		J2135	23		168	9		HAEN1A	02	HAGAAV	01	1	THI	B6		13B		
00102		J2124	28								+5V	01			THI						
01752		J2124	29					168	9		HAG03A	02	HAG030V	01	1	THI	C4		15B		
01753		J2124	30		J2106	07		168	9		HAG030V	01	HAG030V	00	1	THI	C4		14B		
01758		J2124	31		J2109	05		168	9		HAG040V	01	HAG040V	00	1	THI	C5		16B		
00459		J2124	32								GND	01			THI				21B		
01757		J2124	33					168	9		HAG04A	02	HAG040V	01	1	THI	C5		17B		
01748		J2124	34		J2106	05		168	9		HAG020V	01	HAG020V	00	1	THI	C3		15A		
01742		J2124	35					168	9		HAG01A	02	HAG010V	01	1	THI	C2		18A		
01747		J2124	36					168	9		HAG02A	02	HAG020V	01	1	THI	C3		16A		
01743		J2124	37		J2106	10		168	9		HAG010V	01	HAG010V	00	1	THI	C2		17A		
01304		J2124	38		J2124	27		168	9		HAEN1A	01	HAGABAV	01	1	THI	C1		20A		
01762		J2124	39					168	9		HAG05A	02	HAG050V	01	1	THI	C6		19B		
01425		J2124	40					168	9		HAGABAV	05	HAGABAV	00	1	THI	C1		19A		
01782		J2124	41					168	9		HAG09A	02	HAG090V	01	1	THI	D4		23B		
01763		J2124	42		J2106	13		168	9		HAG050V	01	HAG050V	00	1	THI	C6		18B		
01788		J2124	43		J2106	56		168	9		HAG100V	01	HAG100V	00	1	THI	D5		24B		
00460		J2124	44								GND	01			THI				27A		
01787		J2124	45					168	9		HAG10A	02	HAG100V	01	1	THI	D5		25B		
01783		J2124	46		J2109	19		168	9		HAG090V	01	HAG090V	00	1	THI	D4		22B		
01772		J2124	47					168	9		HAG07A	02	HAG070V	01	1	THI	D2		24A		
01778		J2124	48		J2109	20		168	9		HAG080V	01	HAG080V	00	1	THI	D3		21A		
01773		J2124	49		J2109	26		168	9		HAG070V	01	HAG070V	00	1	THI	D2		23A		
01777		J2124	50					168	9		HAG08A	02	HAG080V	01	1	THI	D3		22A		
CONNECTOR (J2124) CONTINUED ON THE NEXT PAGE ****																					

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX J2124  
 DATE 09-01-82 PAGE 52

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PLT	PREFIX	CONNECTOR	PIN	PLT	MULTI GROUP	CODE	COLOR	IDENT											
01792		J2124	51							168	9		HAG11A	02	HAG110V	01	1	THI	D6		27B		
01767		J2124	52							168	9		HAG06A	02	HAG060V	01	1	THI	D1		26A		
01793		J2124	53		J2106	50				168	9		HAG110V	01	HAG110V	00	1	THI	D6		26B		
01768		J2124	54		J2109	13				168	9		HAG060V	01	HAG060V	00	1	THI	D1		25A		
01812		J2124	55							168	9		HAG15A	02	HAG150V	01	1	THI	E4		29B		
01813		J2124	56		J2109	56				168	9		HAG150V	01	HAG150V	00	1	THI	E4		28B		
01818		J2124	57		J2109	50				168	9		HAG160V	01	HAG160V	00	1	THI	E5		30B		
00461		J2124	58										GND	01				THI			40A		
01817		J2124	59							168	9		HAG16A	02	HAG160V	01	1	THI	E5		31B		
01808		J2124	60		J2106	64				168	9		HAG140V	01	HAG140V	00	1	THI	E3		28A		
01802		J2124	61							168	9		HAG13A	02	HAG130V	01	1	THI	E2		31A		
01807		J2124	62							168	9		HAG14A	02	HAG140V	01	1	THI	E3		29A		
01803		J2124	63		J2106	70				168	9		HAG130V	01	HAG130V	00	1	THI	E2		30A		
01797		J2124	64							168	9		HAG12A	02	HAG120V	01	1	THI	E1		33A		
01822		J2124	65							168	9		HAG17A	02	HAG170V	01	1	THI	E6		33B		
01798		J2124	66		J2106	43				163	9		HAG120V	01	HAG120V	00	1	THI	E1		32A		
00462		J2124	67										GND	01				THI					
01823		J2124	68		J2109	70				168	9		HAG170V	01	HAG170V	00	1	THI	E6		32B		
01837		J2124	69							168	9		HAG20A	02	HAG200V	01	1	THI	F3		35B		
01838		J2124	70		J2109	61				168	9		HAG200V	01	HAG200V	00	1	THI	F3		34B		
01833		J2124	71		J2109	55				168	9		HAG190V	01	HAG190V	00	1	THI	F2		36B		
01843		J2124	72		J2106	79				168	9		HAG210V	01	HAG210V	00	1	THI	F4		34A		
01832		J2124	73							168	9		HAG19A	02	HAG190V	01	1	THI	F2		37B		
01842		J2124	74							168	9		HAG21A	02	HAG210V	01	1	THI	F4		35A		
01852		J2124	75							168	9		HAG23A	02	HAG230V	01	1	THI	F6		39A		
01847		J2124	76							168	9		HAG22A	02	HAG220V	01	1	THI	F5		37A		
01853		J2124	77		J2106	74				168	9		HAG230V	01	HAG230V	00	1	THI	F6		38A		
01848		J2124	78		J2106	73				168	9		HAG220V	01	HAG220V	00	1	THI	F5		36A		
01827		J2124	79							168	9		HAG18A	02	HAG180V	01	1	THI	F1		39B		
01828		J2124	80		J2109	64				168	9		HAG180V	01	HAG180V	00	1	THI	F1		38B		

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3M2S2

REV E INDEX J2125  
 DATE 09-01-82 PAGE 53

RECORD NUMBER	FROM			TO			WIRE					SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SH PG	MULTI GROUP	CODE	COLOR	IDENT											
00211		J2125	01									DNW	01				RR1					
00463		J2125	02									GND	01				RR1					
00019		J2125	03		J2125	04			180	2		+05RES	19				RR1	AP				A02
00020		J2125	04		J2127	03			180	2		+05RES	20				RR1	AP				A02
02179		J2125	05		J2121	15			168	9		HAH011V1	01				RR1	A1				
02183		J2125	06		J2121	18			168	9		HAH012V1	01				RR1	A2				
02187		J2125	07		J2121	20			168	9		HAH013V1	01				RR1	A3				
02191		J2125	08		J2121	22			168	9		HAH014V1	01				RR1	A4				
02195		J2125	09		J2121	24			168	9		HAH015V1	01				RR1	A5				
02199		J2125	10		J2121	26			168	9		HAH016V1	01				RR1	A6				
00212		J2125	11									DNW	01				RR1					
00213		J2125	12									+5V	01				RR1					D02
00018		J2125	13		J2125	03			180	2		+05RES	18				RR1	BP				A02
00017		J2125	14		J2125	13			180	2		+05RES	17				RR1	BP				A02
03194		J2125	15									KEY	01				RR1					
03195		J2125	16									KEY	01				RR1					
02203		J2125	17		J2121	29			168	9		HAH017V1	01				RR1	B1				
02207		J2125	18		J2121	34			168	9		HAH018V1	01				RR1	B2				
02211		J2125	19		J2121	38			168	9		HAH021V1	01				RR1	B3				
02215		J2125	20		J2121	40			168	9		HAH022V1	01				RR1	B4				
00015		J2125	21		J2125	22			180	2		+05RES	15				RR1	CP				A02
00016		J2125	22		J2125	14			180	2		+05RES	16				RR1	CP				A02
02227		J2125	23		J2121	48			168	9		HAH025V1	01				RR1	C1				
02219		J2125	24		J2121	42			168	9		HAH023V1	01				RR1	B5				
02231		J2125	25		J2121	50			168	9		HAH026V1	01				RR1	C2				
02223		J2125	26		J2121	46			168	9		HAH024V1	01				RR1	B6				
03196		J2125	27									KEY	01				RR1					
03197		J2125	28									KEY	01				RR1					
02235		J2125	29		J2121	52			168	9		HAH027V1	01				RR1	C3				
02239		J2125	30		J2121	54			168	9		HAH028V1	01				RR1	C4				
00214		J2125	31									DNW	01				RR1					
00464		J2125	32									GND	01				RR1					
00014		J2125	33		J2125	21			180	2		+05RES	14				RR1	DP				A02
00013		J2125	34		J2125	33			180	2		+05RES	13				RR1	DP				A02
02251		J2125	35		J2121	66			168	9		HAH033V1	01				RR1	D1				
02247		J2125	36		J2121	64			168	9		HAH032V1	01				RR1	C6				
02255		J2125	37		J2121	68			168	9		HAH034V1	01				RR1	D2				
02243		J2125	38		J2121	62			168	9		HAH031V1	01				RR1	C5				
02259		J2125	39		J2121	70			168	9		HAH035V1	01				RR1	D3				
02263		J2125	40		J2121	72			168	9		HAH036V1	01				RR1	D4				
02275		J2125	41		J2122	15			168	9		HAH041V1	01				RR1	E1				
02267		J2125	42		J2121	74			168	9		HAH037V1	01				RR1	D5				
00215		J2125	43									DNW	01				RR1					
00465		J2125	44									GND	01				RR1					
02279		J2125	45		J2122	18			168	9		HAH042V1	01				RR1	E2				
02271		J2125	46		J2121	76			168	9		HAH038V1	01				RR1	D6				
02283		J2125	47		J2122	20			168	9		HAH043V1	01				RR1	E3				
02287		J2125	48		J2122	22			168	9		HAH044V1	01				RR1	E4				
00059		J2125	49		J2125	50			180	2		+05RES	59				RR1	EP				A02
00060		J2125	50		J2127	49			180	2		+05RES	60				RR1	EP				A02
CONNECTOR J2125 CONTINUED ON THE NEXT PAGE ****																						

DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2125  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 54

RECORD NUMBER	FROM				TO				WIRE				SFC INST MISC	SIGNAL	SEQ NO	EQUATION	TEF A	FACTOR	CKT OR CHIP TYPE	GRP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SR FS	PREFIX	CONNECTOR	PIN	SR FS	MULTI GROUP	CODE	COLOR	IDENT												
02299		J2125	51		J2122	29				168	9		HAH047V1	01				RR1	F1					
02291		J2125	52		J2122	24				168	9		HAH045V1	01				RR1	E5					
02303		J2125	53		J2122	34				168	9		HAH048V1	01				RR1	F2					
02295		J2125	54		J2122	26				168	9		HAH046V1	01				RR1	E6					
02307		J2125	55		J2122	38				168	9		HAH051V1	01				RR1	F3					
02311		J2125	56		J2122	40				168	9		HAH052V1	01				RR1	F4					
00216		J2125	57										DNW	01				RR1						
00466		J2125	58										GND	01				RR1						
00058		J2125	59		J2125	49				180	2		+05RES	58				RR1	FP				A02	
00057		J2125	60		J2125	59				180	2		+05RES	57				RR1	FP				A02	
02323		J2125	61		J2122	48				168	9		HAH055V1	01				RR1	G1					
02315		J2125	62		J2122	42				168	9		HAH053V1	01				RR1	F5					
02327		J2125	63		J2122	50				168	9		HAH056V1	01				RR1	G2					
02319		J2125	64		J2122	46				168	9		HAH054V1	01				RR1	F6					
02331		J2125	65		J2122	52				168	9		HAH057V1	01				RR1	G3					
02335		J2125	66		J2122	54				168	9		HAH058V1	01				RR1	G4					
00467		J2125	67										GND	01				RR1						
00217		J2125	68										DNW	01				RR1						
00047		J2125	69		J2125	70				180	2		+05RES	47				RR1	GP				A02	
00048		J2125	70		J2127	69				180	2		+05RES	48				RR1	GP				A02	
02347		J2125	71		J2122	66				168	9		HAH063V1	01				RR1	H1					
02339		J2125	72		J2122	62				168	9		HAH061V1	01				RR1	G5					
02351		J2125	73		J2122	68				168	9		HAH064V1	01				RR1	H2					
02343		J2125	74		J2122	64				168	9		HAH062V1	01				RR1	G6					
02355		J2125	75		J2122	70				168	9		HAH065V1	01				RR1	H3					
02359		J2125	76		J2122	72				168	9		HAH066V1	01				RR1	H4					
02363		J2125	77		J2122	74				168	9		HAH067V1	01				RR1	H5					
02367		J2125	78		J2122	76				168	9		HAH068V1	01				RR1	H6					
00046		J2125	79		J2125	69				180	2		+05RES	46				RR1	HP				A02	
00045		J2125	80		J2125	79				180	2		+05RES	45				RR1	HP				A02	
03767		J2125	80	3	J2101	80				180	2		+05RES	65				RR1	HP				A02	



DRAWING NUMBER WL10281451 CONNECTOR  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

REV E INDEX J2126  
 DATE 09-01-82 PAGE 56

RECORD NUMBER	FROM				TO				WIRE				SFC INST MISC	SIGNAL	SEQ NO	EQUATION	T E Y	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH F8	PREFIX	CONNECTOR	PIN	SH F8	MULTI GROUP	CODE	COLOR	IDENT												
01816		J2126	51		J2124	59				168	9		HAG16A	01	HAG16A	00	1	TQ2	D4		27B			
01801		J2126	52		J2124	61				168	9		HAG13A	01	HAG13A	00	1	TQ2	D1		24A			
01576		J2126	53							168	9		HAGA33V1	03	HAG19A	01	1	TQ2	E3		28B			
01558		J2126	54							168	9		HAGA25V1	03	HAG13A	01	1	TQ2	D1		25A			
01443		J2126	55		J2117	20				168	9		HAGAE0	02	HAG19A	01	2	TQ2	E3		29B		A04	
01430		J2126	56		J2126	61				168	9		HAGAG0	06	HAG13A	01	2	TQ2	D1		26A		A04	
01831		J2126	57		J2124	73				168	9		HAG19A	01	HAG19A	00	1	TQ2	E3		30B			
00472		J2126	58										GND	01				TQ2			27A			
01579		J2126	59							168	9		HAGA34V1	03	HAG20A	01	1	TQ2	E4		31B			
01826		J2126	60		J2124	79				168	9		HAG18A	01	HAG18A	00	1	TQ2	E2		28A			
01442		J2126	61		J2126	50				168	9		HAGAG0	07	HAG20A	01	2	TQ2	E4		32B		A04	
01573		J2126	62							168	9		HAGA32V1	03	HAG18A	01	1	TQ2	E2		29A			
01836		J2126	63		J2124	69				168	9		HAG20A	01	HAG20A	00	1	TQ2	E4		33B			
01441		J2126	64		J2126	55				168	9		HAGAE0	01	HAG18A	01	2	TQ2	E2		30A		A04	
01588		J2126	65							168	9		HAGA37V1	03	HAG23A	01	1	TQ2	F3		34B			
01821		J2126	66		J2124	65				168	9		HAG17A	01	HAG17A	00	1	TQ2	E1		31A			
00473		J2126	67										GND	01				TQ2			40A			
01570		J2126	68							168	9		HAGA31V1	03	HAG17A	01	1	TQ2	E1		32A			
01851		J2126	69		J2124	75				168	9		HAG23A	01	HAG23A	00	1	TQ2	F3		35A			
01440		J2126	70		J2126	56				168	9		HAGAG0	05	HAG17A	01	2	TQ2	E1		33A		A04	
01585		J2126	71							168	9		HAGA36V1	03	HAG22A	01	1	TQ2	F2		36A			
01846		J2126	72		J2124	76				168	9		HAG22A	01	HAG22A	00	1	TQ2	F2		34A			
01438		J2126	73		J2126	74				168	9		HAGAG0	03	HAG22A	01	2	TQ2	F2		36B			
01439		J2126	74		J2126	70				168	9		HAGAG0	04	HAG23A	01	2	TQ2	F3		35B			
01841		J2126	75		J2124	74				168	9		HAG21A	01	HAG21A	00	1	TQ2	F1		37B			
01591		J2126	76							168	9		HAGA38V1	03	HAG24A	01	1	TQ2	F4		37A			
01582		J2126	77							168	9		HAGA35V1	03	HAG21A	01	1	TQ2	F1		38B			
01436		J2126	78		J2126	79				168	9		HAGAG0	01	HAG24A	01	2	TQ2	F4		38A			
01437		J2126	79		J2126	73				168	9		HAGAG0	02	HAG21A	01	2	TQ2	F1		39B			
01857		J2126	80							168	9		HAG24A	02	HAG24A	00	1	TQ2	F4		39A			



DRAWING NUMBER WL10281451 CONNECTOR UNIT ASSEMBLY NO. 10281451 REV E INDEX J2127  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 57

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GRP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH. PG.	PREFIX	CONNECTOR	PIN	SH. PG.	MULTI GROUP	CODE	COLOR											
00218	J2127	01										DNW	01				RR1					
00474	J2127	02										GND	01				RR1					
00021	J2127	03			J2127	04			1B0	2		+05RES	21				RR1	AP				A02
00022	J2127	04			J2129	03			1B0	2		+05RES	22				RR1	AP				A02
02371	J2127	05			J2123	15			16B	9		HAH071V1	01				RR1	A1				
02375	J2127	06			J2123	18			16B	9		HAH072V1	01				RR1	A2				
02379	J2127	07			J2123	20			16B	9		HAH073V1	01				RR1	A3				
02383	J2127	08			J2123	22			16B	9		HAH074V1	01				RR1	A4				
02387	J2127	09			J2123	24			16B	9		HAH075V1	01				RR1	A5				
02391	J2127	10			J2123	26			16B	9		HAH076V1	01				RR1	A6				
00219	J2127	11										DNW	01				RR1					
00220	J2127	12										+5V	01				RR1					D02
00004	J2127	13			J2127	21			1B0	2		+05RES	04				RR1	BP				A02
00003	J2127	14			J2127	13			1B0	2		+05RES	03				RR1	BP				A02
03198	J2127	15										KEY	01				RR1					
03199	J2127	16										KEY	01				RR1					
02395	J2127	17			J2123	29			16B	9		HAH077V1	01				RR1	B1				
02399	J2127	18			J2123	34			16B	9		HAH078V1	01				RR1	B2				
02403	J2127	19			J2123	38			16B	9		HAH081V1	01				RR1	B3				
02407	J2127	20			J2123	40			16B	9		HAH082V1	01				RR1	B4				
00005	J2127	21			J2127	22			1B0	2		+05RES	05				RR1	CP				A02
00006	J2127	22			J2129	21			1B0	2		+05RES	06				RR1	CP				A02
02419	J2127	23			J2123	48			16B	9		HAH085V1	01				RR1	C1				
02411	J2127	24			J2123	42			16B	9		HAH083V1	01				RR1	B5				
02422	J2127	25			J2123	50			16B	9		HAH086V1	01				RR1	C2				
02415	J2127	26			J2123	46			16B	9		HAH084V1	01				RR1	B6				
03200	J2127	27										KEY	01				RR1					
03201	J2127	28										KEY	01				RR1					
02426	J2127	29			J2123	52			16B	9		HAH087V1	01				RR1	C3				
02430	J2127	30			J2123	54			16B	9		HAH088V1	01				RR1	C4				
00221	J2127	31										DNW	01				RR1					
00475	J2127	32										GND	01				RR1					
00012	J2127	33			J2125	34			1B0	2		+05RES	12				RR1	DP				A02
00011	J2127	34			J2127	33			1B0	2		+05RES	11				RR1	DP				A02
02442	J2127	35			J2123	66			16B	9		HAH093V1	01				RR1	D1				
02438	J2127	36			J2123	64			16B	9		HAH092V1	01				RR1	C6				
02445	J2127	37			J2123	68			16B	9		HAH094V1	01				RR1	D2				
02434	J2127	38			J2123	62			16B	9		HAH091V1	01				RR1	C5				
02449	J2127	39			J2123	70			16B	9		HAH095V1	01				RR1	D3				
02453	J2127	40			J2123	72			16B	9		HAH096V1	01				RR1	D4				
03240	J2127	41							16B	9		SPI024	09				RR1	E1				
02457	J2127	42			J2123	74			16B	9		HAH097V1	01				RR1	D5				
00222	J2127	43										DNW	01				RR1					
00476	J2127	44										GND	01				RR1					
03249	J2127	45							16B	9		SPI025	09				RR1	E2				
02465	J2127	46							16B	9		HAH098V1	05				RR1	D6				
03258	J2127	47							16B	9		SPI026	09				RR1	E3				
03269	J2127	48							16B	9		SPI027	11				RR1	E4				
00061	J2127	49			J2127	50			1B0	2		+05RES	61				RR1	EP				A02
00062	J2127	50			J2129	49			1B0	2		+05RES	62				RR1	EP				A02
CONNECTOR (J2127) CONTINUED ON THE NEXT PAGE ****																						

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2127  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 58

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TECH FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT										
03303		J2127	51							168	9		SPI030	13			RR1	F1				
03281		J2127	52							168	9		SPI028	12			RR1	E5				
03304		J2127	53		J2124	09				168	9		SPI031	01			RR1	F2				
03288		J2127	54							168	9		SPI029	07			RR1	E6				A05
03325		J2127	55							168	9		SPI032	09			RR1	F3				
03326		J2127	56		J2135	60				168	9		SPI033	01			RR1	F4				801
00223		J2127	57										DNW	01			RR1					
00477		J2127	58										GND	01			RR1					
00056		J2127	59		J2125	60				180	2		+05RES	56			RR1	FP				A02
00055		J2127	60		J2127	59				180	2		+05RES	55			RR1	FP				A02
03362		J2127	61							168	9		SPI036	09			RR1	G1				
03344		J2127	62							168	9		SPI034	10			RR1	F5				
03372		J2127	63							168	9		SPI037	10			RR1	G2				
03345		J2127	64		J2138	76				168	9		SPI035	01			RR1	F6				801
03378		J2127	65							168	9		SPI038	06			RR1	G3				
03383		J2127	66							168	9		SPI039	05			RR1	G4				
00478		J2127	67										GND	01			RR1					
00224		J2127	68										DNW	01			RR1					
00049		J2127	69		J2127	70				180	2		+05RES	49			RR1	GP				A02
00050		J2127	70		J2129	69				180	2		+05RES	50			RR1	GP				A02
03398		J2127	71							168	9		SPI042	05			RR1	H1				
03388		J2127	72							168	9		SPI040	05			RR1	G5				
03400		J2127	73							168	9		SPI043	02			RR1	H2				
03393		J2127	74							168	9		SPI041	05			RR1	G6				
03409		J2127	75							168	9		SPI044	09			RR1	H3				
03418		J2127	76							168	9		SPI045	09			RR1	H4				
03427		J2127	77							168	9		SPI046	09			RR1	H5				
03435		J2127	78							168	9		SPI047	08			RR1	H6				
00044		J2127	79		J2125	80				180	2		+05RES	44			RR1	HP				
00043		J2127	80		J2127	79				180	2		+05RES	43			RR1	HP				A02

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2128  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 59

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	MULTI-GROUP	CODE	COLOR	IDENT											
02140	J2128	01		J2124	20			168	9		HAA3AV	01	HAA3AV	00	1	THI	A4		02B		
00479	J2128	02									GND	01				THI			01A		
02127	J2128	03		J2124	23			168	9		HAA2AV	01	HAA2AV	00	1	THI	A3		03A		
02958	J2128	04		J2101	04			168	9		HBC12B1	02	HAA2AV	01	1	THI	A3		02A		
02961	J2128	05		J2101	05			168	9		HBC13B1	02	HAA3AV	01	1	THI	A4		03B		
02955	J2128	06		J2101	03			168	9		HBC11B1	02	HAA1AV	01	1	THI	A2		05A		
02153	J2128	07		J2124	17			168	9		HAA4AV	01	HAA4AV	00	1	THI	A5		04B		
02114	J2128	08		J2124	22			168	9		HAA1AV	01	HAA1AV	00	1	THI	A2		04A		
02965	J2128	09		J2101	06			168	9		HBC14B1	03	HAA4AV	01	1	THI	A5		05B		
02166	J2128	10		J2124	21			168	9		HAA5AV	01	HAA5AV	00	1	THI	A6		06B		
02952	J2128	11		J2101	01			168	9		HBC10B1	02	HAA0AV	01	1	THI	A1		07A		
00105	J2128	12									+5V	01				THI					
02101	J2128	13		J2124	15			168	9		HAA0AV	01	HAA0AV	00	1	THI	A1		06A		
01878	J2128	14		J2111	13			168	9		HAG280V	01	HAG280V	00	1	THI	B4		08B		
02967	J2128	15		J2101	07			168	9		HBC15B1	01A	HAA5AV	01	1	THI	A6		07B		
00480	J2128	16									GND	01				THI			20B		
01877	J2128	17						168	9		HAG28A	02	HAG280V	01	1	THI	B4		09B		
01873	J2128	18		J2111	07			168	9		HAG270V	01	HAG270V	00	1	THI	B3		09A		
01883	J2128	19		J2111	26			168	9		HAG290V	01	HAG290V	00	1	THI	B5		10B		
01872	J2128	20						168	9		HAG27A	02	HAG270V	01	1	THI	B3		10A		
01882	J2128	21						168	9		HAG29A	02	HAG290V	01	1	THI	B5		11B		
01862	J2128	22						168	9		HAG25A	02	HAG250V	01	1	THI	B1		14A		
01867	J2128	23						168	9		HAG26A	02	HAG260V	01	1	THI	B2		12A		
01863	J2128	24		J2111	10			168	9		HAG250V	01	HAG250V	00	1	THI	B1		13A		
01868	J2128	25		J2111	05			168	9		HAG260V	01	HAG260V	00	1	THI	B2		11A		
01888	J2128	26		J2111	20			168	9		HAG300V	01	HAG300V	00	1	THI	B6		12B		
01887	J2128	27						168	9		HAG30A	02	HAG300V	01	1	THI	B6		13B		
00106	J2128	28									+5V	01				THI					
01907	J2128	29						168	9		HAG34A	02	HAG340V	01	1	THI	C4		15B		
01908	J2128	30		J2111	36			168	9		HAG340V	01	HAG340V	00	1	THI	C4		14B		
01913	J2128	31		J2111	31			168	9		HAG350V	01	HAG350V	00	1	THI	C5		16B		
00481	J2128	32									GND	01				THI			21B		
01912	J2128	33						168	9		HAG35A	02	HAG350V	01	1	THI	C5		17B		
01903	J2128	34		J2111	42			168	9		HAG330V	01	HAG330V	00	1	THI	C3		15A		
01897	J2128	35						168	9		HAG32A	02	HAG320V	01	1	THI	C2		18A		
01902	J2128	36						168	9		HAG33A	02	HAG330V	01	1	THI	C3		16A		
01898	J2128	37		J2111	25			168	9		HAG320V	01	HAG320V	00	1	THI	C2		17A		
01892	J2128	38						168	9		HAG31A	02	HAG310V	01	1	THI	C1		20A		
01917	J2128	39						168	9		HAG36A	02	HAG360V	01	1	THI	C6		19B		
01893	J2128	40		J2111	19			168	9		HAG310V	01	HAG310V	00	1	THI	C1		19A		
01937	J2128	41						168	9		HAG40A	02	HAG400V	01	1	THI	D4		23B		
01918	J2128	42		J2111	37			168	9		HAG360V	01	HAG360V	00	1	THI	C6		18B		
01943	J2128	43		J2111	70			168	9		HAG410V	01	HAG410V	00	1	THI	D5		24B		
00482	J2128	44									GND	01				THI			27A		
01942	J2128	45						168	9		HAG41A	02	HAG410V	01	1	THI	D5		25B		
01938	J2128	46		J2111	49			168	9		HAG400V	01	HAG400V	00	1	THI	D4		22B		
01927	J2128	47						168	9		HAG38A	02	HAG380V	01	1	THI	D2		24A		
01933	J2128	48		J2111	43			168	9		HAG390V	01	HAG390V	00	1	THI	D3		21A		
01928	J2128	49		J2111	50			168	9		HAG380V	01	HAG380V	00	1	THI	D2		23A		
01932	J2128	50						168	9		HAG39A	02	HAG390V	01	1	THI	D3		22A		
CONNECTOR J2128 CONTINUED ON THE NEXT PAGE ****																					

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2128  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 60

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TYP	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH	PREFIX	CONNECTOR	PIN	SH	MULTI GROUP	CODE	COLOR	IDENT											
01947	J2128	51								168	9		HAG42A	02	HAG420V	01	1	THI	D6		27B		
01922	J2128	52								168	9		HAG37A	02	HAG370V	01	1	THI	D1		26A		
01948	J2128	53			J2111	64				168	9		HAG420V	01	HAG420V	00	1	THI	D6		26B		
01923	J2128	54			J2111	56				168	9		HAG370V	01	HAG370V	00	1	THI	D1		25A		
01967	J2128	55								168	9		HAG46A	02	HAG460V	01	1	THI	E4		29B		
01968	J2128	56			J2111	73				168	9		HAG460V	01	HAG460V	00	1	THI	E4		28B		
01973	J2128	57			J2111	74				168	9		HAG470V	01	HAG470V	00	1	THI	E5		30B		
00483	J2128	58											GND	01				THI			40A		
01972	J2128	59								168	9		HAG47A	02	HAG470V	01	1	THI	E5		31B		
01963	J2128	60			J2111	79				168	9		HAG450V	01	HAG450V	00	1	THI	E3		28A		
01957	J2128	61								168	9		HAG44A	02	HAG440V	01	1	THI	E2		31A		
01962	J2128	62								168	9		HAG45A	02	HAG450V	01	1	THI	E3		29A		
01958	J2128	63			J2111	61				168	9		HAG440V	01	HAG440V	00	1	THI	E2		30A		
01952	J2128	64								168	9		HAG43A	02	HAG430V	01	1	THI	E1		33A		
01977	J2128	65								168	9		HAG48A	02	HAG480V	01	1	THI	E6		33B		
01953	J2128	66			J2111	55				168	9		HAG430V	01	HAG430V	00	1	THI	E1		32A		
00484	J2128	67											GND	01				THI					
01978	J2128	68			J2111	78				168	9		HAG480V	01	HAG480V	00	1	THI	E6		32B		
01992	J2128	69								168	9		HAG51A	02	HAG510V	01	1	THI	F3		35B		
01993	J2128	70			J2115	07				168	9		HAG510V	01	HAG510V	00	1	THI	F3		34B		
01988	J2128	71			J2115	05				168	9		HAG500V	01	HAG500V	00	1	THI	F2		36B		
01998	J2128	72			J2115	13				168	9		HAG520V	01	HAG520V	00	1	THI	F4		34A		
01987	J2128	73								168	9		HAG50A	02	HAG500V	01	1	THI	F2		37B		
01997	J2128	74								168	9		HAG52A	02	HAG520V	01	1	THI	F4		35A		
01856	J2128	75			J2126	80				168	9		HAG24A	01	HAG240V	01	1	THI	F6		39A		
02002	J2128	76								168	9		HAG53A	02	HAG530V	01	1	THI	F5		37A		
01858	J2128	77			J2109	79				168	9		HAG240V	01	HAG240V	00	1	THI	F6		38A		
02003	J2128	78			J2115	26				168	9		HAG530V	01	HAG530V	00	1	THI	F5		36A		
01982	J2128	79								168	9		HAG49A	02	HAG490V	01	1	THI	F1		39B		
01983	J2128	80			J2115	10				168	9		HAG490V	01	HAG490V	00	1	THI	F1		38B		

RECORD NUMBER	FROM			TO	WIRE				SIGNAL	SEQ NO	EQUATION	TERM FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	MULTI GROUP										
00225		J2129	01															
00485		J2129	02															
00023		J2129	03	J2129	04		18D	2					RR1	AP			A02	
00024		J2129	04	J2132	03		18D	2					RR1	AP			A02	
01521		J2129	05	J2126	08		16B	9					RR1	A1				
01524		J2129	06	J2126	04		16B	9					RR1	A2				
01527		J2129	07	J2126	03		16B	9					RR1	A3				
01530		J2129	08	J2126	11		16B	9					RR1	A4				
01532		J2129	09	J2130	24		16B	9					RR1	A5				
01536		J2129	10	J2126	18		16B	9					RR1	A6				
00226		J2129	11										RR1					
00227		J2129	12										RR1				D02	
00002		J2129	13	J2127	14		18D	2					RR1	BP			A02	
00001		J2129	14	J2129	13		18D	2					RR1	BP			A02	
03202		J2129	15										RR1					
03203		J2129	16										RR1					
01539		J2129	17	J2126	17		16B	9					RR1	B1				
01542		J2129	18	J2126	23		16B	9					RR1	B2				
01544		J2129	19	J2130	38		16B	9					RR1	B3				
01547		J2129	20	J2130	40		16B	9					RR1	B4				
00007		J2129	21	J2129	22		18D	2					RR1	CP			A02	
00008		J2129	22	J2129	34		18D	2					RR1	CP			A02	
01556		J2129	23	J2130	48		16B	9					RR1	C1				
01551		J2129	24	J2126	29		16B	9					RR1	B5				
01559		J2129	25	J2130	50		16B	9					RR1	C2				
01554		J2129	26	J2126	35		16B	9					RR1	B6				
03204		J2129	27										RR1					
03205		J2129	28										RR1					
01563		J2129	29	J2126	41		16B	9					RR1	C3				
01565		J2129	30	J2130	54		16B	9					RR1	C4				
00228		J2129	31										RR1					
00486		J2129	32										RR1					
00010		J2129	33	J2127	34		18D	2					RR1	DP			A02	
00009		J2129	34	J2129	33		18D	2					RR1	DP			A02	
01575		J2129	35	J2126	53		16B	9					RR1	D1				
01571		J2129	36	J2130	64		16B	9					RR1	C6				
01577		J2129	37	J2130	68		16B	9					RR1	D2				
01568		J2129	38	J2130	62		16B	9					RR1	C5				
01580		J2129	39	J2130	70		16B	9					RR1	D3				
01583		J2129	40	J2130	72		16B	9					RR1	D4				
01642		J2129	41				16B	9					RR1	E1				
01586		J2129	42	J2130	74		16B	9					RR1	D5				
00229		J2129	43										RR1					
00487		J2129	44										RR1					
01645		J2129	45				16B	9					RR1	E2				
01589		J2129	46	J2130	76		16B	9					RR1	D6				
01646		J2129	47	J2131	53		16B	9					RR1	E3				
01649		J2129	48	J2131	59		16B	9					RR1	E4				
00063		J2129	49	J2129	50		18D	2					RR1	EP			A02	
00064		J2129	50				18D	2	K				RR1	EP			A02	

CONNECTOR J2129 CONTINUED ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

UNIT ASSEMBLY NO. 10281451      REV E      INDEX J2129  
 FILE IDENT      TSQ3MST2      DATE 09-01-82      PAGE 62

RECORD NUMBER	PREF ID	CONNECT CO	P	S	TEST POINT	TEST POINT	SIGNAL DESCRIPTION	ECO NO
01660	J2129	51						
01654	J2129	52						
01663	J2129	53						
01657	J2129	54						
03436	J2129	55	J2144	77				
03445	J2129	56						
00230	J2129	57						
00488	J2129	58						
00054	J2129	59	J2127	60				A02
00053	J2129	60	J2129	59				A02
03597	J2129	61						
03447	J2129	62						
03598	J2129	63						
03599	J2129	64						
03600	J2129	65						
03601	J2129	66						
00489	J2129	67						
00231	J2129	68						
00051	J2129	69	J2129	70				A02
00052	J2129	70	J2129	60				A02
03602	J2129	71						
03603	J2129	72						
03604	J2129	73						
03605	J2129	74						
03606	J2129	75						
03607	J2129	76						
03608	J2129	77						
03609	J2129	78						
00042	J2129	79	J2127	80				A02
00041	J2129	80	J2129	79				A02

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2130  
 FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 63

RECORD NUMBER	FROM			TO			WIRE					SIGNAL	SEQ NO	EQUATION	TERM	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	MULTI GROUP	CODE	COLOR	IDENT											
00232		J2130	01									DNW	01								
00490		J2130	02									GND	01								
00233		J2130	03									DNW	01								
00234		J2130	04									DNW	01								
00235		J2130	05									DNW	01								
00236		J2130	06									DNW	01								
00237		J2130	07									DNW	01								
00238		J2130	08									DNW	01								
00239		J2130	09									DNW	01								
00240		J2130	10									DNW	01								
00241		J2130	11									DNW	01								
00107		J2130	12									+5V	01								
00612		J2130	13		J2130	37			168	9		HAAM10V	03	HAGA11V101	1	R05	A1				
00242		J2130	14									DNW	01								
01520		J2130	15		J2129	05			168	9		HAGA11V1	01	HAGA11V100	1	R05	A1			T01	
00491		J2130	16									GND	01								
00626		J2130	17		J2133	17			168	9		HAAM20V	05	HAGA12V101	1	R05	A2			T02	
01523		J2130	18		J2129	06			168	9		HAGA12V1	01	HAGA12V100	1	R05	A2				
00643		J2130	19						168	9		HAAM30V	10	HAGA13V101	1	R05	A3				
01526		J2130	20		J2129	07			168	9		HAGA13V1	01	HAGA13V100	1	R05	A3			T03	
01260		J2130	21		J2130	23			168	9		HAECMOV	01	HAGA17V101	1	R05	A7				
01529		J2130	22		J2129	08			168	9		HAGA14V1	01	HAGA14V100	1	R05	A4			T04	
01261		J2130	23		J2133	23			168	9		HAECMOV	02	HAGA18V101	1	R05	A8				
01533		J2130	24		J2126	24			168	9		HAGA15V1	02	HAGA15V100	1	R05	A5			T05	
00655		J2130	25						168	9		HAAM40V	10	HAGA14V101	1	R05	A4				
01535		J2130	26		J2129	10			168	9		HAGA16V1	01	HAGA16V100	1	R05	A6			T06	
00667		J2130	27						168	9		HAAM50V	10	HAGA15V101	1	R05	A5				
00108		J2130	28									+5V	01								
01538		J2130	29		J2129	17			168	9		HAGA17V1	01	HAGA17V100	1	R05	A7			T07	
00243		J2130	30									DNW	01								
00674		J2130	31		J2133	31			168	9		HAAM60V	05	HAGA16V101	1	R05	A6				
00492		J2130	32									GND	01								
00244		J2130	33									DNW	01								
01541		J2130	34		J2129	18			168	9		HAGA18V1	01	HAGA18V100	1	R05	A9			T08	
00245		J2130	35									DNW	01								
00246		J2130	36									DNW	01								
00613		J2130	37		J2133	37			168	9		HAAM10V	04	HAGA21V101	1	R05	B1				
01545		J2130	38		J2126	40			168	9		HAGA21V1	02	HAGA21V100	1	R05	B1			T09	
00625		J2130	39		J2130	17			168	9		HAAM20V	04	HAGA22V101	1	R05	B2				
01548		J2130	40		J2126	34			168	9		HAGA22V1	02	HAGA22V100	1	R05	B2			T10	
00640		J2130	41		J2133	41			168	9		HAAM30V	07	HAGA23V101	1	R05	B3				
01550		J2130	42		J2129	24			168	9		HAGA23V1	01	HAGA23V100	1	R05	B3			T11	
00247		J2130	43									DNW	01								
00493		J2130	44									GND	01								
01275		J2130	45		J2130	47			168	9		HAECMOV	16	HAGA27V101	1	R05	B7				
01553		J2130	46		J2129	26			168	9		HAGA24V1	01	HAGA24V100	1	R05	B4			T12	
01276		J2130	47		J2130	63			168	9		HAECMOV	17	HAGA28V101	1	R05	B8				
01557		J2130	48		J2126	54			168	9		HAGA25V1	02	HAGA25V100	1	R05	B5			T13	
00652		J2130	49		J2133	49			168	9		HAAM40V	07	HAGA24V101	1	R05	B4				
01560		J2130	50		J2126	48			168	9		HAGA26V1	02	HAGA26V100	1	R05	B6			T14	
CONNECTOR (J2130) CONTINUED ON THE NEXT PAGE ****																					

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3M2S2  
REV E  
DATE 09-01-82  
INDEX J2130  
PAGE 64

RECORD NUMBER	FROM			TO			WIRE			SIGNAL	SERIAL NO.	POSITION	CIRCUIT NO.	CAGE	MOUNTING	LOC. OR IDENT.	TEST POINTS	SIGNAL DESCRIPTION	ECO NO.
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	WIRE NO.	COLOR	TYPE										
00664	J2130	51	J2133	51	168	9	HAA450V	07	HAGA25V101	1	R05	R5							
01562	J2130	52	J2129	29	168	9	HAGA27V1	01	HAGA27V100	1	R05	B7	T15						
00673	J2130	53	J2130	31	168	9	HAA460V	04	HAGA26V101	1	R05	B6							
01566	J2130	54	J2126	47	168	9	HAGA28V1	02	HAGA28V100	1	R05	B8	T16						
00248	J2130	55					DNW	01			R05								
00249	J2130	56					DNW	01			R05								
00250	J2130	57					DNW	01			R05								
00494	J2130	58					GND	01			R05								
00622	J2130	59	J2133	59	168	9	HAA20V	01	HAGA32V101	1	R05	C2							
00619	J2130	60			168	9	HAA10V	10	HAGA31V101	1	R05	C1							
00639	J2130	61	J2130	41	168	9	HAA30V	06	HAGA33V101	1	R05	C3							
01569	J2130	62	J2126	68	168	9	HAGA31V1	02	HAGA31V100	1	R05	C1	T17						
01277	J2130	63	J2130	65	168	9	HAE40V	18	HAGA37V101	1	R05	C7							
01572	J2130	64	J2126	62	168	9	HAGA32V1	02	HAGA32V100	1	R05	C2	T18						
01278	J2130	65			168	9	HAE40V	19	HAGA38V101	1	R05	C8							
01574	J2130	66	J2129	35	168	9	HAGA33V1	01	HAGA33V100	1	R05	C3	T19						
00495	J2130	67					GND	01			R05								
01578	J2130	68	J2126	59	168	9	HAGA34V1	02	HAGA34V100	1	R05	C4	T21						
00651	J2130	69	J2130	49	168	9	HAA40V	06	HAGA34V101	1	R05	C4							
01581	J2130	70	J2126	77	168	9	HAGA35V1	02	HAGA35V100	1	R05	C5	T20						
00663	J2130	71	J2130	51	168	9	HAA450V	06	HAGA35V101	1	R05	C5							
01584	J2130	72	J2126	71	168	9	HAGA36V1	02	HAGA36V100	1	R05	C6	T22						
00670	J2130	73	J2133	73	168	9	HAA460V	01	HAGA36V101	1	R05	C6							
01587	J2130	74	J2126	65	168	9	HAGA37V1	02	HAGA37V100	1	R05	C7	T23						
00251	J2130	75					DNW	01			R05								
01590	J2130	76	J2126	76	168	9	HAGA38V1	02	HAGA38V100	1	R05	C8	T24						
00252	J2130	77					DNW	01			R05								
00253	J2130	78					DNW	01			R05								
00254	J2130	79					DNW	01			R05								
00255	J2130	80					DNW	01			R05								





DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451  
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RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TEST POINT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH/TA	PREFIX	CONNECTOR	PIN	SH/TA	MULTI GROUP	CODE	COLOR	IDENT										
01444	J2131	51								168	9		HAGAG0	09	HAGAG0	00	1	TQ2	D4	27B		
01433	J2131	52			J2126	49				168	9		HAGAF0	01	HAGAF0	00	1	TQ2	D1	24A		
01647	J2131	53			J2133	66				168	9		HAGA63V1	02	HAG43A	01	1	TQ2	E3	28B		
02637	J2131	54			J2117	26				168	9		HAMGC3T	07	HAGAF0	01	1	TQ2	D1	25A		
01479	J2131	55			J2131	37				168	9		HAGAN0	04	HAG43A	01	2	TQ2	E3	29B	A04	
01315	J2131	56			J2141	61				168	9		HAEN2A	02	HAGAF0	01	2	TQ2	D1	26A		
01951	J2131	57			J2128	64				168	9		HAG43A	01	HAG43A	00	1	TQ2	E3	30B		
00500	J2131	58											GND	01				TQ2		27A		
01650	J2131	59			J2133	68				168	9		HAGA64V1	02	HAG44A	01	1	TQ2	E4	31B		
01946	J2131	60			J2128	51				168	9		HAG42A	01	HAG42A	00	1	TQ2	E2	28A		
01478	J2131	61			J2131	55				168	9		HAGAN0	03	HAG44A	01	2	TQ2	E4	32B	A04	
01644	J2131	62			J2129	45				168	9		HAGA62V1	02	HAG42A	01	1	TQ2	E2	29A		
01956	J2131	63			J2128	61				168	9		HAG44A	01	HAG44A	00	1	TQ2	E4	33B		
01468	J2131	64			J2131	61				168	9		HAGAN0	02	HAG42A	01	2	TQ2	E2	30A	A04	
01659	J2131	65			J2129	51				168	9		HAGA67V1	02	HAG47A	01	1	TQ2	F3	34B		
01941	J2131	66			J2128	45				168	9		HAG41A	01	HAG41A	00	1	TQ2	E1	31A		
00501	J2131	67											GND	01				TQ2		40A		
01641	J2131	68			J2129	41				168	9		HAGA61V1	02	HAG41A	01	1	TQ2	E1	32A		
01971	J2131	69			J2128	59				168	9		HAG47A	01	HAG47A	00	1	TQ2	F3	35A		
01467	J2131	70			J2131	64				168	9		HAGAN0	01	HAG41A	01	2	TQ2	E1	33A		
01656	J2131	71			J2129	54				168	9		HAGA66V1	02	HAG46A	01	1	TQ2	F2	36A		
01966	J2131	72			J2128	55				168	9		HAG46A	01	HAG46A	00	1	TQ2	F2	34A		
01477	J2131	73			J2131	42				168	9		HAGAP0	04	HAG46A	01	2	TQ2	F2	36B	A04	
01476	J2131	74			J2131	73				168	9		HAGAP0	03	HAG47A	01	2	TQ2	F3	35B		
01961	J2131	75			J2128	62				168	9		HAG45A	01	HAG45A	00	1	TQ2	F1	37B		
01662	J2131	76			J2129	53				168	9		HAGA68V1	02	HAG48A	01	1	TQ2	F4	37A		
01653	J2131	77			J2129	52				168	9		HAGA65V1	02	HAG45A	01	1	TQ2	F1	38B		
01475	J2131	78			J2131	74				168	9		HAGAP0	02	HAG48A	01	2	TQ2	F4	38A		
01474	J2131	79			J2131	78				168	9		HAGAP0	01	HAG45A	01	2	TQ2	F1	39B		
01976	J2131	80			J2128	65				168	9		HAG48A	01	HAG48A	00	1	TQ2	F4	39A		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

RECORD NUMBER	FROM				TO				WIRE			SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO.
	PREFIX	CONNECTOR	PIH	POS	PREFIX	CONNECTOR	PIH	POS	MULTI GROUP	CODE	COLOR											
00256	J2132	01										DNW	01				RR1					
00502	J2132	02										GND	01				RR1					
00025	J2132	03			J2132	04			18D	2		+05RES	25				RR1	AP			A02	
00026	J2132	04			J2132	14			18D	2		+05RES	26				RR1	AP			A02	
00680	J2132	05			J2142	15			168	9		HACMC1V1	01				RR1	A1				
00683	J2132	06			J2142	18			168	9		HACMC2V1	01				RR1	A2				
00686	J2132	07			J2142	20			168	9		HACMC3V1	01				RR1	A3				
00689	J2132	08			J2142	22			168	9		HACMC4V1	01				RR1	A4				
00692	J2132	09			J2142	24			168	9		HACMC5V1	01				RR1	A5				
00695	J2132	10			J2142	26			168	9		HACMC6V1	01				RR1	A6				
00257	J2132	11										DNW	01				RR1					
00258	J2132	12										+5V	01				RR1				D02	
00028	J2132	13			J2132	21			18D	2		+05RES	28				RR1	BP			A02	
00027	J2132	14			J2132	13			18D	2		+05RES	27				RR1	BP			A02	
03206	J2132	15										KEY	01				RR1					
03207	J2132	16										KEY	01				RR1					
00700	J2132	17			J2134	11			168	9		HACMC7V1	03				RR1	B1			A07	
00703	J2132	18			J2134	13			168	9		HACMC8V1	03				RR1	B2			A07	
01593	J2132	19			J2131	08			168	9		HAGA41V1	02				RR1	B3				
01596	J2132	20			J2131	04			168	9		HAGA42V1	02				RR1	B4				
00029	J2132	21			J2132	22			18D	2		+05RES	29				RR1	CP			A02	
00030	J2132	22			J2132	34			18D	2		+05RES	30				RR1	CP			A02	
01605	J2132	23			J2131	24			168	9		HAGA45V1	02				RR1	C1				
01599	J2132	24			J2131	03			168	9		HAGA43V1	02				RR1	B5				
01608	J2132	25			J2131	18			168	9		HAGA46V1	02				RR1	C2				
01602	J2132	26			J2131	11			168	9		HAGA44V1	02				RR1	B6				
03208	J2132	27										KEY	01				RR1					
03209	J2132	28										KEY	01				RR1					
01611	J2132	29			J2131	17			168	9		HAGA47V1	02				RR1	C3				
01614	J2132	30			J2131	23			168	9		HAGA48V1	02				RR1	C4				
00259	J2132	31										DNW	01				RR1					
00503	J2132	32										GND	01				RR1					
00032	J2132	33			J2132	49			18D	2		+05RES	32				RR1	DP			A02	
00031	J2132	34			J2132	33			18D	2		+05RES	31				RR1	DP			A02	
01622	J2132	35			J2133	42			168	9		HAGA53V1	01				RR1	D1				
01619	J2132	36			J2133	40			168	9		HAGA52V1	01				RR1	C6				
01625	J2132	37			J2133	46			168	9		HAGA54V1	01				RR1	D2				
01616	J2132	38			J2133	38			168	9		HAGA51V1	01				RR1	C5				
01629	J2132	39			J2131	40			168	9		HAGA55V1	02				RR1	D3				
01632	J2132	40			J2131	34			168	9		HAGA56V1	02				RR1	D4				
01666	J2132	41							168	9		HAGA71V1	03				RR1	E1				
01635	J2132	42			J2131	29			168	9		HAGA57V1	02				RR1	D5				
00260	J2132	43										DNW	01				RR1					
00504	J2132	44										GND	01				RR1					
01669	J2132	45							168	9		HAGA72V1	03				RR1	E2				
01638	J2132	46			J2131	35			168	9		HAGA58V1	02				RR1	D6				
01672	J2132	47							168	9		HAGA73V1	03				RR1	E3				
01675	J2132	48							168	9		HAGA74V1	03				RR1	E4				
00033	J2132	49			J2132	50			18D	2		+05RES	33				RR1	EP			A02	
00034	J2132	50			J2132	60			18D	2		+05RES	34				RR1	EP			A02	
CONNECTOR		J2132	CONTINUED ON THE NEXT PAGE ****																			

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 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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RECORD NUMBER	FROM			TO			WIRE			SIGNAL	SEQ NO	EQUATION	TENN	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	MULTI GROUP	CODE	COLOR											
01684	J2132	51						168	9		HAGA77V1	03			RR1	F1				
01678	J2132	52						168	9		HAGA75V1	03			RR1	E5				
01687	J2132	53						168	9		HAGA78V1	03			RR1	F2				
01681	J2132	54						168	9		HAGA76V1	03			RR1	E6				
01690	J2132	55						168	9		HAGA81V1	03			RR1	F3				
01693	J2132	56						168	9		HAGA82V1	03			RR1	F4				
00281	J2132	57									DNW	01			RR1					
00505	J2132	58									GND	01			RR1					
00036	J2132	59		J2132	69			180	2		+05RES	36			RR1	FP				A02
00035	J2132	60		J2132	59			180	2		+05RES	35			RR1	FP				A02
01700	J2132	61		J2134	76			168	9		HAGA85V1	01			RR1	G1				B01
01696	J2132	62						168	9		HAGA83V1	03			RR1	F5				
01705	J2132	63						168	9		HAGA86V1	03			RR1	G2				
01699	J2132	64						168	9		HAGA84V1	03			RR1	F6				
01708	J2132	65						168	9		HAGA87V1	03			RR1	G3				
01711	J2132	66						168	9		HAGA88V1	03			RR1	G4				
00506	J2132	67									GND	01			RR1					
00262	J2132	68									DNW	01			RR1					
00037	J2132	69		J2132	70			180	2		+05RES	37			RR1	GP				A02
00038	J2132	70		J2132	80			180	2		+05RES	38			RR1	GP				A02
01719	J2132	71		J2134	29			168	9		HAGA93V1	02			RR1	H1				
01712	J2132	72		J2137	62			168	9		HAGA91V1	01			RR1	G5				
01722	J2132	73		J2134	35			168	9		HAGA94V1	02			RR1	H2				
01715	J2132	74		J2137	64			168	9		HAGA92V1	01			RR1	G6				
01726	J2132	75						168	9		HAGA95V1	03			RR1	H3				
01728	J2132	76		J2134	48			168	9		HAGA96V1	02			RR1	H4				
01731	J2132	77		J2134	41			168	9		HAGA97V1	02			RR1	H5				
01734	J2132	78		J2134	47			168	9		HAGA98V1	02			RR1	H6				
00040	J2132	79		J2129	80			180	2		+05RES	40			RR1	HP				A02
00039	J2132	80		J2132	79			180	2		+05RES	39			RR1	HP				A02

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
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UNIT ASSEMBLY NO. 10281451  
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RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	DR #	MULTI GROUP	CODE	COLOR											
00263		J2133	01									DNW	01				R05				
00507		J2133	02									GND	01				R05				
00264		J2133	03									DNW	01				R05				
00265		J2133	04									DNW	01				R05				
00266		J2133	05									DNW	01				R05				
00267		J2133	06									DNW	01				R05				
00268		J2133	07									DNW	01				R05				
00269		J2133	08									DNW	01				R05				
00270		J2133	09									DNW	01				R05				
00271		J2133	10									DNW	01				R05				
00272		J2133	11									DNW	01				R05				
00111		J2133	12									+5V	01				R05				
00611		J2133	13		J2130	13			168	9		HAAM10V	02	HAGA41V101	1	R05	A1				
00273		J2133	14								DNW	01				R05					
01592		J2133	15		J2132	19			168	9		HAGA41V1	01	HAGA41V100	1	R05	A1		T01		
00508		J2133	16								GND	01				R05					
00627		J2133	17		J2137	17			168	9		HAAM20V	06	HAGA42V101	1	R05	A2				
01595		J2133	18		J2132	20			168	9		HAGA42V1	01	HAGA42V100	1	R05	A2		T02		
00642		J2133	19		J2130	19			168	9		HAAM30V	09	HAGA43V101	1	R05	A3				
01598		J2133	20		J2132	24			168	9		HAGA43V1	01	HAGA43V100	1	R05	A3		T03		
01263		J2133	21		J2137	21			168	9		HAECMOV	04	HAGA47V101	1	R05	A7				
01601		J2133	22		J2132	26			168	9		HAGA44V1	01	HAGA44V100	1	R05	A4		T04		
01262		J2133	23		J2133	21			168	9		HAECMOV	03	HAGA48V101	1	R05	A8				
01604		J2133	24		J2132	23			168	9		HAGA45V1	01	HAGA45V100	1	R05	A5		T05		
00654		J2133	25		J2130	25			168	9		HAAM40V	09	HAGA44V101	1	R05	A4				
01607		J2133	26		J2132	25			168	9		HAGA46V1	01	HAGA46V100	1	R05	A6		T06		
00666		J2133	27		J2130	27			168	9		HAAM50V	09	HAGA45V101	1	R05	A5				
00112		J2133	28								+5V	01				R05					
01610		J2133	29		J2132	29			168	9		HAGA47V1	01	HAGA47V100	1	R05	A7		T07		
00274		J2133	30								DNW	01				R05					
00675		J2133	31		J2137	31			168	9		HAAM60V	06	HAGA46V101	1	R05	A6				
00509		J2133	32								GND	01				R05					
00275		J2133	33								DNW	01				R05					
01613		J2133	34		J2132	30			168	9		HAGA48V1	01	HAGA48V100	1	R05	A8		T08		
00276		J2133	35								DNW	01				R05					
00277		J2133	36								DNW	01				R05					
00614		J2133	37		J2137	37			168	9		HAAM10V	05	HAGA51V101	1	R05	B1				
01617		J2133	38		J2134	24			168	9		HAGA51V1	02	HAGA51V100	1	R05	B1		T09		
00624		J2133	39		J2130	39			168	9		HAAM20V	03	HAGA52V101	1	R05	B2				
01620		J2133	40		J2134	18			168	9		HAGA52V1	02	HAGA52V100	1	R05	B2		T10		
00641		J2133	41		J2133	19			168	9		HAAM30V	08	HAGA53V101	1	R05	B3				
01623		J2133	42		J2134	17			168	9		HAGA53V1	02	HAGA53V100	1	R05	B3		T11		
00278		J2133	43								DNW	01				R05					
00510		J2133	44								GND	01				R05					
01274		J2133	45		J2130	45			168	9		HAECMOV	15	HAGA57V101	1	R05	B7				
01626		J2133	46		J2134	23			168	9		HAGA54V1	02	HAGA54V100	1	R05	B4		T12		
01273		J2133	47		J2133	45			168	9		HAECMOV	14	HAGA58V101	1	R05	B8				
01628		J2133	48		J2132	39			168	9		HAGA55V1	01	HAGA55V100	1	R05	B5		T13		
00653		J2133	49		J2133	25			168	9		HAAM40V	08	HAGA54V101	1	R05	B4				
01631		J2133	50		J2132	40			168	9		HAGA56V1	01	HAGA56V100	1	R05	B6		T14		

CONNECTOR J2133 CONTINUED ON THE NEXT PAGE \*\*\*

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2133  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 70

RECORD NUMBER	FROM			N/A	TO			WIRE				SPEC. PART MISC.	SIGNAL	SEQ NO	EQUATION	TYP. R.	TYP. F.	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	QTY	MULTI GROUP	CODE	COLOR												
00665	J2133	51		J2133	27			168	9			HAAM50V	08	HAGA55V101	1	R05	R05	B5					
01634	J2133	52		J2132	42			168	9			HAGA57V1	01	HAGA57V100	1	R05	R05	B7		T15			
00672	J2133	53		J2130	53			168	9			HAAM60V	03	HAGA58V101	1	R05	R05	B6					
01637	J2133	54		J2132	46			168	9			HAGA58V1	01	HAGA58V100	1	R05	R05	B8		T16			
00279	J2133	55										DNW	01			R05	R05						
00280	J2133	56										DNW	01			R05	R05						
00281	J2133	57										DNW	01			R05	R05						
00511	J2133	58										GND	01			R05	R05						
00623	J2133	59		J2133	39			168	9			HAAM20V	02	HAGA62V101	1	R05	R05	C2					
00618	J2133	60		J2130	60			168	9			HAAM10V	09	HAGA61V101	1	R05	R05	C1					
00638	J2133	61		J2130	61			168	9			HAAM30V	05	HAGA63V101	1	R05	R05	C3					
01640	J2133	62		J2131	68			168	9			HAGA61V1	01	HAGA61V100	1	R05	R05	C1		T17			
01272	J2133	63		J2133	47			168	9			HAECNOV	13	HAGA67V101	1	R05	R05	C7					
01643	J2133	64		J2131	62			168	9			HAGA62V1	01	HAGA62V100	1	R05	R05	C2		T18			
01271	J2133	65		J2133	63			168	9			HAECNOV	12	HAGA68V101	1	R05	R05	C8					
01648	J2133	66						168	9			HAGA63V1	03	HAGA63V100	1	R05	R05	C3		T19			
00512	J2133	67										GND	01			R05	R05						
01651	J2133	68						168	9			HAGA64V1	03	HAGA64V100	1	R05	R05	C4		T21			
00650	J2133	69		J2130	69			168	9			HAAM40V	05	HAGA64V101	1	R05	R05	C4					
01652	J2133	70		J2131	77			168	9			HAGA65V1	01	HAGA65V100	1	R05	R05	C5		T20			
00662	J2133	71		J2130	71			168	9			HAAM50V	05	HAGA65V101	1	R05	R05	C5					
01655	J2133	72		J2131	71			168	9			HAGA66V1	01	HAGA66V100	1	R05	R05	C6		T22			
00671	J2133	73		J2133	53			168	9			HAAM60V	02	HAGA66V101	1	R05	R05	C6					
01658	J2133	74		J2131	65			168	9			HAGA67V1	01	HAGA67V100	1	R05	R05	C7		T23			
00282	J2133	75										DNW	01			R05	R05						
01661	J2133	76		J2131	76			168	9			HAGA68V1	01	HAGA68V100	1	R05	R05	C8		T24			
00283	J2133	77										DNW	01			R05	R05						
00284	J2133	78										DNW	01			R05	R05						
00285	J2133	79										DNW	01			R05	R05						
00286	J2133	80										DNW	01			R05	R05						

DRAWING NUMBER WL10281451  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX J2134  
FILE IDENT TSQ3M2 DATE 09-01-82 PAGE 71

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	SIZE	MULTI GROUP	CODE	COLOR										
01445	J2134	01	J2117	14				168	9		HAGAHA	01	HAGAHA	00	1	TQ2	A2	02B		
00513	J2134	02									GND	01				TQ2		01A		
01326	J2134	03						168	9		HAEN30V	03	HAGATA	01	1	TQ2	A3	02A		
01318	J2134	04	J2131	41				168	9		HAEN20V	01	HAGAHA	01	1	TQ2	A2	04A		
02926	J2134	05						168	9		HA5CC0V	07	HAGAHA	01	2	TQ2	A2	03B		
03628	J2134	06									SPO	01		00	1	TQ2	A1	05A		
02932	J2134	07						168	9		HAGCC0	06	HAGATA	01	2	TQ2	A3	03A		
03318	J2134	08	J2135	01				168	9		SPI032	02		01	1	TQ2	A1	06A		
01447	J2134	09	J2117	17				168	9		HAGATA	01	HAGATA	00	1	TQ2	A3	04B		
03332	J2134	10	J2135	04				168	9		SPI033	07		01	2	TQ2	A1	07A		A05
03317	J2134	11						168	9		HACNC7V1	04	HACWAA	01	1	TQ2	A4	05B		A07
00113	J2134	12									+5V	01				TQ2				
03331	J2134	13						168	9		HACMC8V1	04	HACWAA	01	2	TQ2	A4	06B		A07
01906	J2134	14	J2128	29				168	9		HAG34A	01	HAG34A	00	1	TQ2	B2	09A		
03629	J2134	15	J2136	76				168	9			01	HACWAA	00	1	TQ2	A4	07B		A07
00514	J2134	16									GND	01				TQ2		01B		
01624	J2134	17						168	9		HAGA53V1	03	HAG35A	01	1	TQ2	B3	08B		
01621	J2134	18						168	9		HAGA52V1	03	HAG34A	01	1	TQ2	B2	10A		
01458	J2134	19	J2131	10				168	9		HAGAKO	05	HAG35A	01	2	TQ2	B3	09B		A04
01457	J2134	20	J2134	19				168	9		HAGAKO	04	HAG34A	01	2	TQ2	B2	11A		
01911	J2134	21	J2128	33				168	9		HAG35A	01	HAG35A	00	1	TQ2	B3	10B		
01901	J2134	22	J2128	36				168	9		HAG33A	01	HAG33A	00	1	TQ2	B1	12A		
01627	J2134	23						168	9		HAGA54V1	03	HAG36A	01	1	TQ2	B4	11B		
01618	J2134	24						168	9		HAGA51V1	03	HAG33A	01	1	TQ2	B1	13A		
01455	J2134	25	J2134	26				168	9		HAGAKO	02	HAG36A	01	2	TQ2	B4	12B		
01456	J2134	26	J2134	20				168	9		HAGAKO	03	HAG33A	01	2	TQ2	B1	14A		
01916	J2134	27	J2128	39				168	9		HAG36A	01	HAG36A	00	1	TQ2	B4	13B		
00114	J2134	28									+5V	01				TQ2				
01720	J2134	29						168	9		HAGA93V1	03	HAG67A	01	1	TQ2	C3	14B		
02067	J2134	30						168	9		HAG66A	02	HAG66A	00	1	TQ2	C2	15A		
01511	J2134	31	J2135	33				168	9		HAGAX0	02	HAG67A	01	2	TQ2	C3	15B		
00515	J2134	32									GND	01				TQ2		20B		
02072	J2134	33						168	9		HAG67A	02	HAG67A	00	1	TQ2	C3	16B		
01717	J2134	34						168	9		HAGA92V1	03	HAG66A	01	1	TQ2	C2	16A		
01723	J2134	35						168	9		HAGA94V1	03	HAG68A	01	1	TQ2	C4	17B		
01513	J2134	36	J2134	42				168	9		HAGAX0	04	HAG66A	01	2	TQ2	C2	17A		
01510	J2134	37	J2134	31				168	9		HAGAX0	01	HAG68A	01	2	TQ2	C4	18B		
02062	J2134	38						168	9		HAG65A	02	HAG65A	00	1	TQ2	C1	18A		
02077	J2134	39						168	9		HAG68A	02	HAG68A	00	1	TQ2	C4	19B		
01714	J2134	40						168	9		HAGA91V1	03	HAG65A	01	1	TQ2	C1	19A		
01732	J2134	41						168	9		HAGA97V1	03	HAG71A	01	1	TQ2	D3	22B		
01514	J2134	42	J2134	50				168	9		HAGAX0	05	HAG65A	01	2	TQ2	C1	20A		
01519	J2134	43	J2138	50				168	9		HAGAW0	01	HAG71A	01	2	TQ2	D3	23B		A04
00516	J2134	44									GND	01				TQ2		21B		
02092	J2134	45						168	9		HAG71A	02	HAG71A	00	1	TQ2	D3	24B		
02087	J2134	46						168	9		HAG70A	02	HAG70A	00	1	TQ2	D2	21A		
01735	J2134	47						168	9		HAGA98V1	03	HAG72A	01	1	TQ2	D4	25B		
01729	J2134	48						168	9		HAGA96V1	03	HAG70A	01	1	TQ2	D2	22A		
01518	J2134	49	J2134	78				168	9		HAGAY0	02	HAG72A	01	2	TQ2	D4	26B		B01
01515	J2134	50	J2134	56				168	9		HAGAX0	06	HAG70A	01	2	TQ2	D2	23A		
CONNECTOR (J2134) CONTINUED ON THE NEXT PAGE ****																				

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2134  
 FILE IDENT TSQ3M2 DATE 09-01-82 PAGE 72

RECORD NUMBER	FROM			TO			SH 10	MULTI GROUP	WIRE CODE	COLOR	IDENT	SPEC INST MISC	SIGNAL	SEQ NO	EQUATION	TYP	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN																	
02097		J2134	51						168	9			HAG72A	02	HAG72A	00	1	TQ2	D4		27B		
02082		J2134	52						168	9			HAG69A	02	HAG69A	00	1	TQ2	D1		24A		
01331		J2134	53						168	9			HAEN40V	02	HAGAMA	01	1	TQ2	E3		28B		
01725		J2134	54		J2132	75			168	9			HAGA95V1	02	HAG69A	01	1	TQ2	D1		25A		
02930		J2134	55		J2131	43			168	9			HAGCC0	04	HAGAMA	01	2	TQ2	E3		29B		
01516		J2134	56						168	9			HAGAX0	07	HAG69A	01	2	TQ2	D1		26A		
01465		J2134	57		J2117	23			168	9			HAGAMA	01	HAGAMA	00	1	TQ2	E3		30B		
00517		J2134	58						168	9			GND	01				TQ2			27A		
03037		J2134	59		J2124	04			168	9			HBT3A	01	HAENAS	01	1	TQ2	E4		31B		
01463		J2134	60		J2117	21			168	9			HAGALA	01	HAGALA	00	1	TQ2	E2		28A		
01280		J2134	61						168	9			HAENAR	02	HAENAS	01	2	TQ2	E4		32B		
01325		J2134	62		J2134	03			168	9			HAEN30V	02	HAGALA	01	1	TQ2	E2		29A		
01289		J2134	63						168	9			HAENAS	09	HAENAS	00	1	TQ2	E4		33B	IC CKT CTR ENA	
02922		J2134	64		J2138	64			168	9			HA5CC0V	03	HAGALA	01	2	TQ2	E2		30A		
01342		J2134	65		J2141	68			168	9			HAEN60V	02	HAGAVA	01	1	TQ2	F3		34B		A05
01480		J2134	66						168	9			HAGAP0	07	HAGAP0	00	1	TQ2	E1		31A		
00518		J2134	67						168	9			GND	01				TQ2			40A		
02635		J2134	68		J2134	79			168	9			HAMGC3T	05	HAGAP0	01	1	TQ2	E1		32A		
01504		J2134	69						168	9			HAGAVA	03	HAGAVA	00	1	TQ2	F3		35A		
01329		J2134	70						168	9			HAEN4A	03	HAGAP0	01	2	TQ2	E1		33A		
01337		J2134	71		J2117	71			168	9			HAEN50V	03	HAGAUA	01	1	TQ2	F2		36A		
01501		J2134	72						168	9			HAGAUA	03	HAGAUA	00	1	TQ2	F2		34A		
02921		J2134	73		J2134	64			168	9			HA5CC0V	02	HAGAUA	01	2	TQ2	F2		36B		
02929		J2134	74		J2134	55			168	9			HAGCC0	03	HAGAVA	01	2	TQ2	F3		35B		
01498		J2134	75						168	9			HAGAT0	05	HAGAT0	00	1	TQ2	F1		37B		
01482		J2134	76		J2137	48			168	9			HAGA85V1	02	HAG61A	01	1	TQ2	F4		37A		801
01334		J2134	77						168	9			HAEN5A	03	HAGAT0	01	1	TQ2	F1		38B		
01484		J2134	78						168	9			HAGAY0	03	HAG61A	01	2	TQ2	F4		38A		801
02636		J2134	79		J2131	54			168	9			HAMGC3T	06	HAGAT0	01	2	TQ2	F1		39B		
01493		J2134	80		J2136	23			168	9			HAG61A	01	HAG61A	00	1	TQ2	F4		39A		801



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2135  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 73

RECORD NUMBER	FROM			TO	WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	MULTI GROUP											
03319		J2135	01	J2135	06			168	9				01	1	TD4	A2	02B		
00519		J2135	02														01A		
00287		J2135	03																
03334		J2135	04	J2138	56			168	9				01	2	TD4	A2	04A		B01
03284		J2135	05	J2138	54			168	9				01	3	TD4	A2	03B		B01
03320		J2135	06	J2135	26			168	9		HAGASO		01	1	TD4	A1	05A		A05
03339		J2135	07	J2135	20			168	9				01	4	TD4	A2	03A		A05
03333		J2135	08	J2138	68			168	9		HAIICCAV	HAGASO	01	2	TD4	A1	06A		A05
03630		J2135	09										00	1	TD4	A2	04B		
03285		J2135	10					168	9		HAGAOA	HAGASO	01	3	TD4	A1	07A		A05
03631		J2135	11					168	9		HAGASO	HAGASO	00	1	TD4	A1	05B		A05
00115		J2135	12								+5V								
03340		J2135	13					168	9		HAGARA	HAGASO	01	4	TD4	A1	06B		A05
03321		J2135	14					168	9		HAD052E	HATAKA	01	1	TD4	B2	09A		A05
00208		J2135	15								DNN								
00520		J2135	16								GND						20B		
00289		J2135	17								DNN								
03330		J2135	18	J2117	30			168	9		HBCP3A	HATAKA	01	2	TD4	B2	10A		A05
03283		J2135	19					168	9		HBCPAA	HATAKA	01	3	TD4	B2	09B		A05
03341		J2135	20	J2135	50			168	9		SPI034	HATAKA	01	4	TD4	B2	11A		A05
03632		J2135	21					168	9		HATAKA	HATAKA	00	1	TD4	B2	10B		A05
02788		J2135	22					168	9		HARM20V	HAEN1A	01	1	TD4	B1	12A		
01306		J2135	23	J2141	64			168	9		HAEN1A	HAEN1A	00	1	TD4	B1	11B		
01353		J2135	24					168	9		HAET1P	HAEN1A	01	2	TD4	B1	13A		
01370		J2135	25					168	9		HAET3P	HAEN1A	01	3	TD4	B1	12B		
03322		J2135	26	J2135	36			168	9		SPI032	HAEN1A	01	4	TD4	B1	14A		
00290		J2135	27								DNN								
00116		J2135	28								+5V								
00291		J2135	29								DNN								
01499		J2135	30	J2135	37			168	9		HAGAVA	HAGAXO	01	1	TD4	C2	15A		
01502		J2135	31	J2135	38			168	9		HAGAVA	HAGAXO	01	2	TD4	C2	15B		
00521		J2135	32								GND						21B		
01512		J2135	33	J2134	36			168	9		HAGAXO	HAGAXO	00	1	TD4	C2	16B		(CT5 5IC1)+(CT6 6I
02633		J2135	34	J2135	40			168	9		HAMGC3T	HAGAXO	01	3	TD4	C2	16A		
01509		J2135	35					168	9		HAGAWO	HAGAWO	00	1	TD4	C1	17B		
03323		J2135	36	J2135	42			168	9		SPI032	HAGAXO	01	4	TD4	C2	17A		
01500		J2135	37	J2134	72			168	9		HAGAVA	HAGAWO	01	1	TD4	C1	18B		
01503		J2135	38	J2134	69			168	9		HAGAVA	HAGAWO	01	2	TD4	C1	18A		
00292		J2135	39								DNN								
02634		J2135	40	J2134	68			168	9		HAMGC3T	HAGAWO	01	3	TD4	C1	19A		
00293		J2135	41								DNN								
03324		J2135	42	J2: 27	55			168	9		SPI032	HAGAWO	01	4	TD4	C1	20A		
03353		J2135	43					168	9		SPI035		01	1	TD4	D2	23B		
00522		J2135	44								GND						27A		
03633		J2135	45								SPO		00	1	TD4	D2	24B		
03329		J2135	46	J2134	10			168	9		SPI033		01	2	TD4	D2	21A		A07
02482		J2135	47	J2109	54			168	9		HAIATA	HAIATA	00	1	TD4	D1	25B		
03286		J2135	48	J2135	62			168	9		SPI029		01	3	TD4	D2	22A		
01142		J2135	49	J2120	56			168	9		HAD042E	HAIATA	01	1	TD4	D1	26B		
03342		J2135	50	J2135	64			168	9		SPI034		01	4	TD4	D2	23A		
CONNECTOR (J2135) CONTINUED ON THE NEXT PAGE ****																			

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2135  
 FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 74

RECORD NUMBER	FROM			TO			WIRE					SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	NO	MULTI GROUP	CODE	COLOR	IDENT											
00294		J2135	51									DNW	01				T04					
02990		J2135	52		J2135	18			168	9		HBCP3A	08	HAIAIA	01	2	T04	D1		24A		A05
00295		J2135	53									DNW	01				T04					
02976		J2135	54		J2117	47			168	9		HBCP2A	01	HAIAIA	01	3	T04	D1		25A		
03352		J2135	55		J2135	43			168	9		SPI035	08		01	1	T04	E2		29B		
02935		J2135	56		J2101	33			168	9		H88P2A	01	HAIAIA	01	4	T04	D1		26A		
03634		J2135	57									SPO	01		00	1	T04	E2		30B		
00523		J2135	58									GND	01				T04			40A		
01290		J2135	59		J2117	69			168	9		HAENDO	01	HAENDO	00	1	T04	E1		31B		
03328		J2135	60		J2135	46			168	9		SPI033	03		01	2	T04	E2		28A		
01397		J2135	61		J2117	64			168	9		HAICA	01	HAENDO	01	1	T04	E1		32B		
03287		J2135	62		J2127	54			168	9		SPI029	06		01	3	T04	E2		29A		
00296		J2135	63									DNW	01				T04					
03343		J2135	64		J2127	62			168	9		SPI034	09		01	4	T04	E2		30A		
00297		J2135	65									DNW	01				T04					
01399		J2135	66		J2117	55			168	9		HAE2CA	01	HAENDO	01	2	T04	E1		31A		
00524		J2135	67									GND	01				T04			40B		
01401		J2135	68		J2117	63			168	9		HAE3CA	01	HAENDO	01	3	T04	E1		32A		
01279		J2135	69		J2134	61			168	9		HAENAR	01	HAENAR	00	1	T04	F2		35A		
01403		J2135	70		J2117	73			168	9		HAE4CA	01	HAENDO	01	4	T04	E1		33A		
01288		J2135	71		J2134	63			168	9		HAENAS	08	HAENAR	01	1	T04	F2		36A		
01413		J2135	72						168	9		HAFBAV	04	HAENAR	01	2	T04	F2		34A		
01415		J2135	73		J2112	55			168	9		HAFTCP	02	HAENAR	01	3	T04	F2		36B		
03351		J2135	74		J2135	55			168	9		SPI035	07	HAENAR	01	4	T04	F2		35B		A04
01406		J2135	75		J2117	74			168	9		HAE5CA	02	HAENES	00	1	T04	F1		37B		
01296		J2135	76						168	9		HAENES	03	HAENES	01	1	T04	F1		37A		A04
01259		J2135	77						168	9		HAE80A	02	HAENES	01	2	T04	F1		38B		B01
01408		J2135	78		J2117	80			168	9		HAE6CA	01	HAENES	01	3	T04	F1		38A		
01293		J2135	79		J2101	75			168	9		HAENER	02	HAENES	01	4	T04	F1		39B		C01
00298		J2135	80									DNW	01				T04					

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2136  
 FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 75

RECORD NUMBER	FROM			INFO	TO			WIRE					SIGNAL	SEQ NO	EQUATION	TERM	FACTORY	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO.
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	SIZE	MULTI GROUP	CODE	COLOR	IDENT											
02023	J2136	01		J2115	42			168	9			HAG570V	01	HAG570V	00	1	THI	A4		02B			
00525	J2136	02										GND	01				THI			01A			
02018	J2136	03		J2115	25			168	9			HAG560V	01	HAG560V	00	1	THI	A3		03A			
02017	J2136	04						168	9			HAG56A	02	HAG560V	01	1	THI	A3		02A			
02022	J2136	05						168	9			HAG57A	02	HAG570V	01	1	THI	A4		03B			
02012	J2136	06						168	9			HAG55A	02	HAG550V	01	1	THI	A2		05A			
02028	J2136	07		J2115	36			168	9			HAG580V	01	HAG580V	00	1	THI	A5		04B			
02013	J2136	08		J2115	19			168	9			HAG550V	01	HAG550V	00	1	THI	A2		04A			
02027	J2136	09						168	9			HAG58A	02	HAG580V	01	1	THI	A5		05B			
02033	J2136	10		J2115	31			168	9			HAG590V	01	HAG590V	00	1	THI	A6		06B			
02007	J2136	11						168	9			HAG54A	02	HAG540V	01	1	THI	A1		07A			
00117	J2136	12										+5V	01				THI						
02008	J2136	13		J2115	20			168	9			HAG540V	01	HAG540V	00	1	THI	A1		06A			
02053	J2136	14		J2115	43			168	9			HAG630V	01	HAG630V	00	1	THI	B4		08B			
02032	J2136	15						168	9			HAG59A	02	HAG590V	01	1	THI	A6		07B			
00526	J2136	16										GND	01				THI			20B			
02052	J2136	17						168	9			HAG63A	02	HAG630V	01	1	THI	B4		09B			
02048	J2136	18		J2115	50			168	9			HAG620V	01	HAG620V	00	1	THI	B3		09A			
02058	J2136	19		J2115	49			168	9			HAG640V	01	HAG640V	00	1	THI	B5		10B			
02047	J2136	20						168	9			HAG62A	02	HAG620V	01	1	THI	B3		10A			
02057	J2136	21						168	9			HAG64A	02	HAG640V	01	1	THI	B5		11B			
02037	J2136	22						168	9			HAG60A	02	HAG600V	01	1	THI	B1		14A			
02042	J2136	23						168	9			HAG61A	02	HAG610V	01	1	THI	B2		12A			
02038	J2136	24		J2115	37			168	9			HAG600V	01	HAG600V	00	1	THI	B1		13A			
02043	J2136	25		J2115	56			168	9			HAG610V	01	HAG610V	00	1	THI	B2		11A			
02063	J2136	26		J2115	70			168	9			HAG650V	01	HAG650V	00	1	THI	B6		12B			
02061	J2136	27		J2134	38			168	9			HAG65A	01	HAG650V	01	1	THI	B6		13B			
00118	J2136	28										+5V	01				THI						
02081	J2136	29		J2134	52			168	9			HAG69A	01	HAG690V	01	1	THI	C4		15B			
02083	J2136	30		J2115	79			168	9			HAG690V	01	HAG690V	00	1	THI	C4		14B			
02088	J2136	31		J2115	73			168	9			HAG700V	01	HAG700V	00	1	THI	C5		16B			
00527	J2136	32										GND	01				THI			21B			
02086	J2136	33		J2134	46			168	9			HAG70A	01	HAG700V	01	1	THI	C5		17B			
02078	J2136	34		J2115	61			168	9			HAG680V	01	HAG680V	00	1	THI	C3		15A			
02071	J2136	35		J2134	33			168	9			HAG67A	01	HAG670V	01	1	THI	C2		18A			
02076	J2136	36		J2134	39			168	9			HAG68A	01	HAG680V	01	1	THI	C3		16A			
02073	J2136	37		J2115	55			168	9			HAG670V	01	HAG670V	00	1	THI	C2		17A			
02066	J2136	38		J2134	30			168	9			HAG66A	01	HAG660V	01	1	THI	C1		20A			
02091	J2136	39		J2134	45			168	9			HAG71A	01	HAG710V	01	1	THI	C6		19B			
02068	J2136	40		J2115	64			168	9			HAG660V	01	HAG660V	00	1	THI	C1		19A			
02630	J2136	41						168	9			HAMGC2T	02	HA5CC0V	01	1	THI	D4		23B			
02093	J2136	42		J2115	74			168	9			HAG710V	01	HAG710V	00	1	THI	C6		18B			
02913	J2136	43		J2131	49			168	9			HA1CCAV	03	HA1CCAV	00	1	THI	D5		24B			
00528	J2136	44										GND	01				THI			27A			
02918	J2136	45						168	9			HA1CC0V	03	HA1CCAV	01	1	THI	D5		25B			
02924	J2136	46		J2131	50			168	9			HA5CC0V	05	HA5CC0V	00	1	THI	D4		22B			
02787	J2136	47		J2135	22			168	9			HARM20V	02	HAMXXAV	01	1	THI	D2		24A			
01267	J2136	48		J2137	47			168	9			HAECMOV	08	HAECMOV	00	1	THI	D3		21A			
02641	J2136	49						168	9			HAMXXAV	02	HAMXXAV	00	1	THI	D2		23A			
02625	J2136	50		J2139	08			168	9			HAMGCOT	02	HAECMOV	01	1	THI	D3		22A			
CONNECTOR		J2136	CONTINUED ON THE NEXT PAGE ****																				

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2136  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 76

RECORD NUMBER	FROM				TO				W R F				SIGNAL	SEQ NO	EQUATION	T E X	FACTOR	CKT ON CHIP TYPE	GROUP	LOAD OR LOW-PW PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	INFO	PREFIX	CONNECTOR	PIN	INFO	MULTI GROUP	CODE	COLON	IDENT											
00609	J2136	51							168	9			HAAM1AV	02	HAAM10V	01	1	THI	D6		27B		
02096	J2136	52			J2134	51			168	9			HAG72A	01	HAG720V	01	1	THI	D1		26A		
00617	J2136	53			J2133	60			168	9			HAAM10V	08	HAAM10V	00	1	THI	D6		26B		
02098	J2136	54			J2115	78			168	9			HAG720V	01	HAG720V	00	1	THI	D1		25A		
00657	J2136	55							168	9			HAAM5AV	02	HAAM50V	01	1	THI	E4		29B		
00660	J2136	56			J2137	71			168	9			HAAM50V	03	HAAM50V	00	1	THI	E4		28B		
00678	J2136	57			J2137	73			168	9			HAAM60V	09	HAAM60V	00	1	THI	E5		30B		
00529	J2136	58											GND	01				THI			40A		
00669	J2136	59							168	9			HAAM6AV	02	HAAM60V	01	1	THI	E5		31B		
00648	J2136	60			J2137	69			168	9			HAAM40V	03	HAAM40V	00	1	THI	E3		28A		
00633	J2136	61							168	9			HAAM3AV	02	HAAM30V	01	1	THI	E2		31A		
00645	J2136	62							168	9			HAAM4AV	02	HAAM40V	01	1	THI	E3		29A		
00637	J2136	63			J2133	61			168	9			HAAM30V	04	HAAM30V	00	1	THI	E2		30A		
00621	J2136	64							168	9			HAAM2AV	02	HAAM20V	01	1	THI	E1		33A		
03014	J2136	65			J2101	11			168	9			HBFBE0	02	HAFBAAV	01	1	THI	E6		33B		
00631	J2136	66							168	9			HAAM20V	10	HAAM20V	00	1	THI	E1		32A		
00530	J2136	67											GND	01				THI					
01412	J2136	68			J2135	72			168	9			HAFBAAV	03	HAFBAAV	00	1	THI	E6		32B	(RST 1)*	
03035	J2136	69			J2101	23			168	9			HBSAKAV	03	HARM50V	01	1	THI	F3		35B		
02798	J2136	70			J2123	63			168	9			HARM50V	01	HARM50V	00	1	THI	F3		34B	ENA 5	
02797	J2136	71							168	9			HARM40V	09	HARM40V	00	1	THI	F2		36B	ENA 4	
00593	J2136	72							168	9			HAACMOV	02	HAACMOV	00	1	THI	F4		34A		
03034	J2136	73			J2136	69			168	9			HBSAKAV	02	HARM40V	01	1	THI	F2		37B		
00591	J2136	74							168	9			HAACMAV	02	HAACMOV	01	1	THI	F4		35A		
03350	J2136	75			J2138	69			168	9			HACKMO	01	HACKMAV	01	1	THI	F6		39A	A04	
03349	J2136	76			J2101	56			168	9			HACWAA	02	HACMAOV	01	1	THI	F5		37A	801	
03635	J2136	77							168	9			HACKMAV	03	HACKMAV	00	1	THI	F6		38A	A04	
03636	J2136	78							168	9		M	HACMAOV	01	HACMAOV	00	1	THI	F5		36A	A07	
03013	J2136	79			J2136	65			168	9		M	HBFBE0	01	HAFBBAV	01	1	THI	F1		39B		
03704	J2136	80										M	HAFBBAV	01	HAFBBAV	00	1	THI	F1		38B	(RST 2)*	

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX J2137  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 77

RECORD NUMBER	FROM			TO			WIRE			SIGNAL	SFO NO	EQUATION	TERM	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	MULTI GROUP	CODE	COLOR										
00299	J2137	01								DNW	01								
00531	J2137	02								GND	01								
00300	J2137	03								DNW	01								
00301	J2137	04								DNW	01								
00302	J2137	05								DNW	01								
00303	J2137	06								DNW	01								
00304	J2137	07								DNW	01								
00305	J2137	08								DNW	01								
00306	J2137	09								DNW	01								
00307	J2137	10								DNW	01								
00308	J2137	11								DNW	01								
00119	J2137	12								+5V	01								
00610	J2137	13		J2133	13			168	9	HAAM10V	01	HAGA71V101	1	R05	A1				
00309	J2137	14								DNW	01								
01665	J2137	15		J2132	41			168	9	HAGA71V1	02	HAGA71V100	1	R05	A1		T01		
00532	J2137	16								GND	01								
00628	J2137	17		J2137	39			168	9	HAAM20V	07	HAGA72V101	1	R05	A2				
01668	J2137	18		J2132	45			168	9	HAGA72V1	02	HAGA72V100	1	R05	A2		T02		
00634	J2137	19		J2137	41			168	9	HAAM30V	01	HAGA73V101	1	R05	A3				
01671	J2137	20		J2132	47			168	9	HAGA73V1	02	HAGA73V100	1	R05	A3		T03		
01264	J2137	21		J2137	23			168	9	HAECM0V	05	HAGA77V101	1	R05	A7				
01674	J2137	22		J2132	48			168	9	HAGA74V1	02	HAGA74V100	1	R05	A4		T04		
01265	J2137	23		J2137	45			168	9	HAECM0V	06	HAGA78V101	1	R05	A8				
01677	J2137	24		J2132	52			168	9	HAGA75V1	02	HAGA75V100	1	R05	A5		T05		
00646	J2137	25		J2137	49			168	9	HAAM40V	01	HAGA74V101	1	R05	A4				
01680	J2137	26		J2132	54			168	9	HAGA76V1	02	HAGA76V100	1	R05	A6		T06		
00658	J2137	27		J2137	51			168	9	HAAM50V	01	HAGA75V101	1	R05	A5				
00120	J2137	28								+5V	01								
01683	J2137	29		J2132	51			168	9	HAGA77V1	02	HAGA77V100	1	R05	A7		T07		
00310	J2137	30								DNW	01								
00676	J2137	31		J2137	53			168	9	HAAM60V	07	HAGA76V101	1	R05	A6				
00533	J2137	32								GND	01								
00311	J2137	33								DNW	01								
01686	J2137	34		J2132	53			168	9	HAGA78V1	02	HAGA78V100	1	R05	A8		T08		
00312	J2137	35								DNW	01								
00313	J2137	36								DNW	01								
00615	J2137	37		J2137	60			168	9	HAAM10V	06	HAGA81V101	1	R05	B1				
01689	J2137	38		J2132	55			168	9	HAGA81V1	02	HAGA81V100	1	R05	B1		T09		
00629	J2137	39		J2137	59			168	9	HAAM20V	08	HAGA82V101	1	R05	B2				
01692	J2137	40		J2132	56			168	9	HAGA82V1	02	HAGA82V100	1	R05	B2		T10		
00635	J2137	41		J2137	61			168	9	HAAM30V	02	HAGA83V101	1	R05	B3				
01695	J2137	42		J2132	62			168	9	HAGA83V1	02	HAGA83V100	1	R05	B3		T11		
00314	J2137	43								DNW	01								
00534	J2137	44								GND	01								
01266	J2137	45		J2136	48			168	9	HAECM0V	07	HAGA87V101	1	R05	B7				
01698	J2137	46		J2132	64			168	9	HAGA84V1	02	HAGA84V100	1	R05	B4		T12		
01268	J2137	47		J2137	63			168	9	HAECM0V	09	HAGA88V101	1	R05	B8				
01702	J2137	48						168	9	HAGA85V1	03	HAGA85V100	1	R05	B5		T13		
00647	J2137	49		J2136	60			168	9	HAAM40V	02	HAGA84V101	1	R05	B4				
01704	J2137	50		J2132	63			168	9	HAGA86V1	02	HAGA86V100	1	R05	B6		T14		
CONNECTOR J2137 CONTINUED ON THE NEXT PAGE****																			

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2137  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 78

RECORD NUMBER	FROM			TO			W-REF			SIGNAL	SEQ NO	EQUATION	T-REF	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	CONNECTOR	PIN	MULTI GROUP	CONF	COLOR	IDENT											
00659		J2137	51	J2136	56		168	9		HAAM50V	02	HAGA85V101	1	R05	B5					
01707		J2137	52	J2132	65		168	9		HAGA87V1	02	HAGA87V100	1	R05	B7		T15			
00677		J2137	53	J2136	57		168	9		HAAM60V	08	HAGA86V101	1	R05	B6					
01710		J2137	54	J2132	66		168	9		HAGA88V1	02	HAGA88V100	1	R05	B8		T16			
00315		J2137	55							DNW	01			R05						
00316		J2137	56							DNW	01			R05						
00317		J2137	57							DNW	01			R05						
00535		J2137	58							GND	01			R05						
00630		J2137	59	J2136	66		168	9		HAAM20V	09	HAGA92V101	1	R05	C2					
00616		J2137	60	J2136	53		168	9		HAAM10V	07	HAGA91V101	1	R05	C1					
00636		J2137	61	J2136	63		168	9		HAAM30V	03	HAGA93V101	1	R05	C3					
01713		J2137	62	J2134	40		168	9		HAGA91V1	02	HAGA91V100	1	R05	C1		T17			
01269		J2137	63	J2137	65		168	9		HAECM0V	10	HAGA97V101	1	R05	C7					
01716		J2137	64	J2134	34		168	9		HAGA92V1	02	HAGA92V100	1	R05	C2		T18			
01270		J2137	65	J2133	65		168	9		HAECM0V	11	HAGA98V101	1	R05	C8					
01718		J2137	66	J2132	71		168	9		HAGA93V1	01	HAGA93V100	1	R05	C3		T19			
00536		J2137	67							GND	01			R05						
01721		J2137	68	J2132	73		168	9		HAGA94V1	01	HAGA94V100	1	R05	C4		T21			
00649		J2137	69	J2133	69		168	9		HAAM40V	04	HAGA94V101	1	R05	C4					
01724		J2137	70	J2134	54		168	9		HAGA95V1	01	HAGA95V100	1	R05	C5		T20			
00661		J2137	71	J2133	71		168	9		HAAM50V	04	HAGA95V101	1	R05	C5					
01727		J2137	72	J2132	76		168	9		HAGA96V1	01	HAGA96V100	1	R05	C6		T22			
00679		J2137	73				168	9		HAAM60V	10	HAGA96V101	1	R05	C6					
01730		J2137	74	J2132	77		168	9		HAGA97V1	01	HAGA97V100	1	R05	C7		T23			
00318		J2137	75							DNW	01			R05						
01733		J2137	76	J2132	78		168	9		HAGA98V1	01	HAGA98V100	1	R05	C8		T24			
00319		J2137	77							DNW	01			R05						
00320		J2137	78							DNW	01			R05						
00321		J2137	79							DNW	01			R05						
00322		J2137	80							DNW	01			R05						

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2138  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 79

RECORD NUMBER	FROM			SH FC	TO			SH FC	WIRE				SPEC INST WIRE	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		MULTI GROUP	CODE	COLOR	IDENT												
01986	J2138	01		J2128	73			16B	9			HAG50A	01	HAG50A	00	1	TQ2	A2			02B			
00537	J2138	02		J2138	08			16B	9			GND	01					TQ2				01A		
01485	J2138	03		J2138	36			16B	9			HAGASO	01	HAG51A	01	1	TQ2	A3				02A	A04	
01486	J2138	04		J2138	08			16B	9			HAGATO	03	HAG50A	01	1	TQ2	A2				04A	A04	
01667	J2138	05		J2137	18			16B	9			HAGA72V1	01	HAG50A	01	2	TQ2	A2				03B		
01981	J2138	06		J2128	79			16B	9			HAG49A	01	HAG49A	00	1	TQ2	A1				05A		
01670	J2138	07		J2137	20			16B	9			HAGA73V1	01	HAG51A	01	2	TQ2	A3				03A		
01487	J2138	08		J2134	75			16B	9			HAGATO	04	HAG49A	01	1	TQ2	A1				06A	A04	
01991	J2138	09		J2128	69			16B	9			HAG51A	01	HAG51A	00	1	TQ2	A3				04B		
01664	J2138	10		J2137	15			16B	9			HAGA71V1	01	HAG49A	01	2	TQ2	A1				07A		
01488	J2138	11		J2138	19			16B	9			HAGASO	04	HAG52A	01	1	TQ2	A4				05B		
00121	J2138	12										+5V	01					TQ2						
01673	J2138	13		J2137	22			16B	9			HAGA74V1	01	HAG52A	01	2	TQ2	A4				06B		
02006	J2138	14		J2136	11			16B	9			HAG54A	01	HAG54A	00	1	TQ2	B2				09A		
01996	J2138	15		J2128	74			16B	9			HAG52A	01	HAG52A	00	1	TQ2	A4				07B		
00538	J2138	16										GND	01					TQ2				01B		
01682	J2138	17		J2137	29			16B	9			HAGA77V1	01	HAG55A	01	1	TQ2	B3				08B		
01679	J2138	18		J2137	26			16B	9			HAGA76V1	01	HAG54A	01	1	TQ2	B2				10A		
01489	J2138	19		J2138	20			16B	9			HAGASO	05	HAG55A	01	2	TQ2	B3				09B		
01490	J2138	20		J2138	26			16B	9			HAGASO	06	HAG54A	01	2	TQ2	B2				11A		
02011	J2138	21		J2136	06			16B	9			HAG55A	01	HAG55A	00	1	TQ2	B3				10B		
02001	J2138	22		J2128	76			16B	9			HAG53A	01	HAG53A	00	1	TQ2	B1				12A		
01685	J2138	23		J2137	34			16B	9			HAGA78V1	01	HAG56A	01	1	TQ2	B4				11B		
01676	J2138	24		J2137	24			16B	9			HAGA75V1	01	HAG53A	01	1	TQ2	B1				13A		
01492	J2138	25		J2135	11			16B	9			HAGASO	08	HAG56A	01	2	TQ2	B4				12B	A05	
01491	J2138	26		J2138	25			16B	9			HAGASO	07	HAG53A	01	2	TQ2	B1				14A		
02016	J2138	27		J2136	04			16B	9			HAG56A	01	HAG56A	00	1	TQ2	B4				13B		
00122	J2138	28										+5V	01					TQ2						
01694	J2138	29		J2137	42			16B	9			HAGA83V1	01	HAG59A	01	1	TQ2	C3				14B		
02026	J2138	30		J2136	09			16B	9			HAG58A	01	HAG58A	00	1	TQ2	C2				15A		
01494	J2138	31		J2138	37			16B	9			HAGATO	01	HAG59A	01	2	TQ2	C3				15B		
00539	J2138	32										GND	01					TQ2				20B		
02031	J2138	33		J2136	15			16B	9			HAG59A	01	HAG59A	00	1	TQ2	C3				16B		
01691	J2138	34		J2137	40			16B	9			HAGA82V1	01	HAG58A	01	1	TQ2	C2				16A		
01697	J2138	35		J2137	46			16B	9			HAGA84V1	01	HAG60A	01	1	TQ2	C4				17B		
01496	J2138	36		J2138	42			16B	9			HAGASO	02	HAG58A	01	2	TQ2	C2				17A	A04	
01495	J2138	37		J2138	04			16B	9			HAGATO	02	HAG60A	01	2	TQ2	C4				18B	A04	
02021	J2138	38		J2136	05			16B	9			HAG57A	01	HAG57A	00	1	TQ2	C1				18A		
02036	J2138	39		J2136	22			16B	9			HAG60A	01	HAG60A	00	1	TQ2	C4				19B		
01688	J2138	40		J2137	38			16B	9			HAGA81V1	01	HAG57A	01	1	TQ2	C1				19A		
01706	J2138	41		J2137	52			16B	9			HAGA87V1	01	HAG63A	01	1	TQ2	D3				22B		
01497	J2138	42		J2138	11			16B	9			HAGASO	03	HAG57A	01	2	TQ2	C1				20A	A04	
01508	J2138	43		J2135	35			16B	9			HAGAWO	04	HAG63A	01	2	TQ2	D3				23B		
00540	J2138	44										GND	01					TQ2				21B		
02051	J2138	45		J2136	17			16B	9			HAG63A	01	HAG63A	00	1	TQ2	D3				24B		
02046	J2138	46		J2136	20			16B	9			HAG62A	01	HAG62A	00	1	TQ2	D2				21A		
01709	J2138	47		J2137	54			16B	9			HAGA88V1	01	HAG64A	01	1	TQ2	D4				25B		
01703	J2138	48		J2137	50			16B	9			HAGA86V1	01	HAG62A	01	1	TQ2	D2				22A		
01507	J2138	49		J2138	43			16B	9			HAGAWO	03	HAG64A	01	2	TQ2	D4				26B		
01506	J2138	50		J2138	49			16B	9			HAGAWO	02	HAG62A	01	2	TQ2	D2				23A		
CONNECTOR (J2138) CONTINUED ON THE NEXT PAGE ****																								

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2138  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 80

RECORD NUMBER	FROM				TO				WRS		SIGNAL	SFC NO	EQUATION	TRIP	FACTOR	CPT GR TRIP TIME	WDR	LOAD OR POWER PLANE	TEST POINTS AND GR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	SH TC	PREFIX	CONNECTOR	PIN	NO	GROUP	CODE											
02056	J2138	51			J2136	21			168	9	HAG64A	01	HAG64A	00	1	TQ2	04	27B			
02041	J2138	52			J2136	21			168	9	SPO	01		00	1	TQ2	01	24A		B01	
01343	J2138	53							168	9	HAEN6A	03	HAGAYO	01	1	TQ2	E3	28B		A05	
01701	J2138	54			J2135	48			168	9	SPI029	04		01	1	TQ2	01	25A		B01	
02912	J2138	55			J2136	43			168	9	HA1CCAV	02	HAGAYO	01	2	TQ2	E3	29B			
01505	J2138	56							168	9	SPI033	10		01	2	TQ2	01	26A		B01	
01517	J2138	57			J2134	49			168	9	HAGAYO	01	HAGAYO	00	1	TQ2	E3	30B			
00541	J2138	58							168	9	GND	01		01		TQ2		27A			
02624	J2138	59			J2136	50			168	9	HANGCOT	01	HA6CCO	01	1	TQ2	E4	31B			
01483	J2138	60			J2135	13			168	9	HAGAPA	01	HAGARA	00	1	TQ2	E2	28A		A05	
02628	J2138	61							168	9	HANGCIT	02	HA6CCO	01	2	TQ2	E4	32B			
01344	J2138	62			J2141	56			168	9	HAEN4OV	00	HAGARA	01	1	TQ2	E2	29A		A01	
02928	J2138	63			J2134	74			168	9	HA6CCO	02	HA6CCO	00	1	TQ2	E4	33B	ANY 6 IC CARD		
02923	J2138	64			J2136	46			168	9	HA5CCOV	04	HAGARA	01	2	TQ2	E2	30A			
03346	J2138	65			J2101	43			168	9	HBYP0V	01	HACKMO	01	1	TQ2	F3	34B		A04	
01454	J2138	66			J2134	25			168	9	HAGAKO	01	HAGAKO	00	1	TQ2	E1	31A	CT3 + BDMAN		
00542	J2138	67							168	9	GND	01		01		TQ2		40A			
02911	J2138	68			J2138	55			168	9	HA1CCAV	01	HAGAKO	01	1	TQ2	E1	32A			
03637	J2138	69							168	9	HACKMO	02	HACKMO	00	1	TQ2	F3	35A		A04	
01323	J2138	70							168	9	HAEN3A	03	HAGAKO	01	2	TQ2	E1	33A			
03347	J2138	71							168	9	H8LAF0	02	HAEBDA	01	1	TQ2	F2	36A		B01	
03638	J2138	72			J2135	77			168	9	HAEBDA	01	HAEBDA	00	1	TQ2	F2	34A		B01	
03327	J2138	73							168	9	HAEBCOV	02	HAEBDA	01	2	TQ2	F2	36B		B01	
03360	J2138	74			J2141	66			168	9	HAEN1OV	055	HACKMO	01	2	TQ2	F3	35B		A04	
01292	J2138	75			J2135	79			168	9	HAENER	01	HAENER	00	1	TQ2	F1	37B			
03348	J2138	76			J2135	74			168	9	SPI035	04		01	1	TQ2	F4	37A		A07	
01295	J2138	77			J2135	76			168	9	HAENES	02	HAENER	01	1	TQ2	F1	38B			
03361	J2138	78			J2127	61			168	9	SPI036	08		01	2	TQ2	F4	38A			
01287	J2138	79			J2135	71			168	9	HAENAS	07	HAENER	01	2	TQ2	F1	39B			
03639	J2138	80							168	9	SPO	01		00	1	TQ2	F4	39A			



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2139  
 FILE IDENT TSQ3M2S2 DATE 09-01-82 PAGE 81

RECORD NUMBER	FROM			TO			WIRE			SPEC. NO.	SIGNAL	SEC NO.	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO.
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	MULTI GROUP	CODE	COLOR												
00323		J2139	01																		
00543		J2139	02																		
01738		J2139	03																		
00699		J2139	04		J2132	17			168	9											
02640		J2139	05		J2136	49			168	9											
00702		J2139	06		J2132	18			168	9											
03707		J2139	07																		
02626		J2139	08						168	9											
03708		J2139	09																		
02627		J2139	10		J2138	61			168	9											
03709		J2139	11																		
00123		J2139	12																		
02632		J2139	13		J2135	34			168	9											
02629		J2139	14		J2136	41			168	9											
03710		J2139	15																		
03766		J2139	16																		
03706		J2139	17																		
03711		J2139	18																		
03282		J2139	19		J2135	05			168	9											
03365		J2139	20		J2139	47			168	9											A05
03338		J2139	21		J2135	07			168	9											
03357		J2139	22		J2139	48			168	9											
03640		J2139	23																		
03641		J2139	24																		
03642		J2139	25																		
03643		J2139	26																		
03644		J2139	27																		
00124		J2139	28																		
03645		J2139	29																		
03646		J2139	30																		
03647		J2139	31																		
00544		J2139	32																		
03648		J2139	33																		
03649		J2139	34																		
01410		J2139	35		J2139	49			168	9											
00603		J2139	36						168	9											
03048		J2139	37		J2136	77			168	9											
00595		J2139	38						168	9											
00682		J2139	39						168	9											
03210		J2139	4T																		
00597		J2139	40						168	9											
00685		J2139	41						168	9											
00599		J2139	42						168	9											
00688		J2139	43						168	9											
00545		J2139	44						168	9											
00691		J2139	45						168	9											
00601		J2139	46						168	9											
03366		J2139	47		J2141	79			168	9											
03358		J2139	48		J2139	73			168	9											B01
01411		J2139	49		J2136	68			168	9											
CONNECTOR J2139 CONTINUED ON THE NEXT PAGE ****																					

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2139  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 82

RECORD NUMBER	FROM		TO		W-R-T				SIGNAL	S.F. NO	EQUATION	TFR	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	FROM	TO	CONNECTION	PIN	W	R											
03211		J2139	5T						SPA	01	HAMGC5T	01	1	DBC	A6				
01285		J2139	50		J2139	63		168	9		HAENAS	05	1	DBC	C1	24A			
03047		J2139	51		J2139	37		168	9		HACKMAY	01	1	DBC	D2	25B			
03703		J2139	52								HAACN5U	01	1	DBC	D5	25A		A04	
00694		J2139	53					168	9		HACMC5VI	03	1	DBC	D1	26B			
00605		J2139	54					168	9		HAACN1U	02	1	DBC	D1	26A			
00697		J2139	55					168	9		HACMC6VI	03	2	DBC	D1	27B			
00607		J2139	56					168	9		HAACN2U	02	1	DBC	D2	28B			
01737		J2139	57		J2139	03		168	9		HAGN50V	02	3	DBC	D1	29B			
00546		J2139	58								GND	01		DBC					
01740		J2139	59					168	9		HAGN60V	02	4	DBC	D1	30B			
03212		J2139	6T								SPA	01	1	DBC	A7				
03701		J2139	60								HAACN3U	01	1	DBC	D3	28A			
00592		J2139	61		J2136	72		168	9		HAACM0V	01	1	DBC	D3	31B			
03702		J2139	62								HAACN4U	01	1	DBC	D4	29A			
01286		J2139	63		J2138	79		168	9		HAENAS	06	5	DBC	D1	31A			
03371		J2139	64		J2127	63		168	9		SPI037	09	1	DBC	D4	30A			
00324		J2139	65								DNW	01		DBC					
03399		J2139	66		J2127	73		168	9		SPI043	01	1	DBC	E5	32B			
00547		J2139	67								GND	01		DBC					
03650		J2139	68								SPO	01	1	DBC	E5	33A			
03387		J2139	69		J2127	72		168	9		SPI040	04	1	DBC	E2	32A			
03213		J2139	7T								SPA	01	1	DBC	A8				
03651		J2139	70								SPO	01	1	DBC	E1	34A			
03370		J2139	71		J2139	64		168	9		SPI037	08	1	DBC	E1	35B			
03652		J2139	72								SPO	01	1	DBC	E2	35A			
03359		J2139	73		J2138	78		168	9		SPI036	06	2	DBC	E1	34B		A04	
03653		J2139	74								SPO	01	1	DBC	E3	36A			
03377		J2139	75		J2127	65		168	9		SPI038	05	3	DBC	E1	35B			
03654		J2139	76								SPO	01	1	DBC	E4	37A			
03337		J2139	77		J2139	21		168	9		SPI034	03	4	DBC	E1	36B			
03397		J2139	78		J2127	71		168	9		SPI042	04	1	DBC	E4	38A			
03392		J2139	79		J2127	74		168	9		SPI041	04	1	DBC	E3	37B			
03214		J2139	8T								SPA	01	1	DBC	A9				
03382		J2139	80		J2127	66		168	9		SPI039	04	5	DBC	E1	38B			
03215		J2139	9T								SPA	01	1	DBC	A0				

DRAWING NUMBER WL10281451  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX J2140  
FILE IDENT TSQ3M2 DATE 09-01-82 PAGE 83

RECORD NUMBER	FROM				TO				WIRE				SPEC. INST. WIRE	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PCB	PREFIX	CONNECTOR	PIN	PCB	SH FT	MULTI GROUP	CODE	COLOR												
03517	SAE	J2140	01							168	9		HAI060V	02	HAL14A	01	1	TT3	A2		02B	B01		
03518	SAE	J2140	02										GND	01				TT3			01B	D02		
03519	SAE	J2140	03		J2125	25				168	9		HAH026V1	00	HAL14A	01	2	TT3	A2		02A	B01		
03520	SAE	J2140	04										HAL08A	01	HAL08A	00	1	TT3	A1		04A	B01		
03521	SAE	J2140	05		J2124	60				168	9		HAG140V	00	HAL14A	01	3	TT3	A2		03B	B01		
03522	SAE	J2140	06		J2125	18				168	9		HAH018V1	00	HAL08A	01	1	TT3	A1		05A	B01		
03523	SAE	J2140	07										HAL14A	01	HAL14A	00	1	TT3	A2		03A	B01		
03524	SAE	J2140	08							168	9		HAI14A	02	HAL08A	01	2	TT3	A1		06A	B01		
03525	SAE	J2140	09		J2124	68				168	9		HAG170V	00	HAL17A	01	1	TT3	A3		04B	B01		
03526	SAE	J2140	10		J2124	48				168	9		HAG080V	00	HAL08A	01	3	TT3	A1		07A	B01		
03527	SAE	J2140	11							168	9		HAI080V	02	HAL17A	01	2	TT3	A3		05B	B01		
03528	SAE	J2140	12										+5V	01				TT3				D02		
03529	SAE	J2140	13		J2125	38				168	9		HAH031V1	00	HAL17A	01	3	TT3	A3		06B	B01		
03530	SAE	J2140	14							168	9		HAI80V	02	HAL34A	01	1	TT3	B2		09A	B01		
03531	SAE	J2140	15										HAL17A	01	HAL17A	00	1	TT3	A3		07B	B01		
03532	SAE	J2140	16										GND	01				TT3			21B	D02		
03533	SAE	J2140	17		J2125	56				168	9		HAH052V1	00	HAL34A	01	2	TT3	B2		08B	B01		
03534	SAE	J2140	18		J2128	30				168	9		HAG340V	00	HAL34A	01	3	TT3	B2		10A	B01		
03535	SAE	J2140	19										HAL34A	01	HAL34A	00	1	TT3	B2		09B	B01		
03536	SAE	J2140	20										HAL29A	01	HAL29A	00	1	TT3	B1		11A	B01		
03537	SAE	J2140	21		J2128	43				168	9		HAG410V	00	HAL41A	01	1	TT3	B3		10B	B01		
03538	SAE	J2140	22		J2125	52				168	9		HAH045V1	00	HAL29A	01	1	TT3	B1		12A	B01		
03539	SAE	J2140	23							168	9		HAI190V	02	HAL41A	01	2	TT3	B3		11B	B01		
03540	SAE	J2140	24							168	9		HAI140V	02	HAL29A	01	2	TT3	B1		13A	B01		
03541	SAE	J2140	25		J2125	72				168	9		HAH061V1	00	HAL41A	01	3	TT3	B3		12B	B01		
03542	SAE	J2140	26		J2128	19				168	9		HAG290V	00	HAL29A	01	3	TT3	B1		14A	B01		
03543	SAE	J2140	27										HAL41A	01	HAL41A	00	1	TT3	B3		13B	B01		
03544	SAE	J2140	28										+5V	01				TT3				D02		
03545	SAE	J2140	29		J2127	06				168	9		HAH072V1	00	HAL50A	01	1	TT3	C2		14B	B01		
03546	SAE	J2140	30							168	9		HAI00V	02	HAL50A	01	2	TT3	C2		15A	B01		
03547	SAE	J2140	31										HAL50A	01	HAL50A	00	1	TT3	C2		15B	B01		
03548	SAE	J2140	32										GND	01				TT3			27A	D02		
03549	SAE	J2140	33		J2128	78				168	9		HAG530V	00	HAL53A	01	1	TT3	C3		16B	B01		
03550	SAE	J2140	34		J2128	71				168	9		HAG500V	00	HAL50A	01	3	TT3	C2		16A	B01		
03551	SAE	J2140	35							168	9		HAI230V	02	HAL53A	01	2	TT3	C3		17B	B01		
03552	SAE	J2140	36										HAL46A	01	HAL46A	00	1	TT3	C1		17A	B01		
03553	SAE	J2140	37		J2127	09				168	9		HAH075V1	00	HAL53A	01	3	TT3	C3		18B	B01		
03554	SAE	J2140	38		J2125	76				168	9		HAH066V1	00	HAL46A	01	1	TT3	C1		18A	B01		
03555	SAE	J2140	39										HAL53A	01	HAL53A	00	1	TT3	C3		19B	B01		
03556	SAE	J2140	40							168	9		HAI00V	02	HAL46A	01	2	TT3	C1		19A	B01		
03557	SAE	J2140	41	SAE	J2140	49				168	9		SPI024	07		01	1	TT3	D2		22B	B01		
03558	SAE	J2140	42		J2128	56				168	9		HAG460V	00	HAL46A	01	3	TT3	C1		20A	B01		
03559	SAE	J2140	43										SPO	01		00	1	TT3	D2		23B	B01		
03560	SAE	J2140	44										GND	01				TT3			40A	D02		
03561	SAE	J2140	45	SAE	J2140	70				168	9		SPI050	0B		01	1	TT3	D3		24B	B01		
03562	SAE	J2140	46	SAE	J2140	47				168	9		SPI049	0A		01	2	TT3	D2		21A	B01		
03563	SAE	J2140	47	SAE	J2140	68				168	9		SPI049	0B		01	2	TT3	D3		25B	B01		
03564	SAE	J2140	48	SAE	J2140	45				168	9		SPI050	0A		01	3	TT3	D2		22A	B01		
03565	SAE	J2140	49		J2127	41				168	9		SPI024	0B		01	3	TT3	D3		26B	B01		
03566	SAE	J2140	50										HAL69A	01	HAL69A	00	1	TT3	D1		23A	B01		
CONNECTOR (J2140) CONTINUED ON THE NEXT PAGE ****																								

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2140  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 84

RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SIG NO	EQUATION	TPTS	FACTOR	CHIP TYPE	GRP	LOAD OR WORKER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	PREFIX	CONNECTOR	PIN	MULTI GROUP	LOD	LOD	IDENT											
03567	SAE	J2140	51								SPO	01		00	1	TT3	D3		27B		801
03568	SAE	J2140	52		J2127	39		168	9		HAH095V1	00	HAL69A	01	1	TT3	D1		24A		801
03569	SAE	J2140	53		J2125	08		168	9		HAH014V1	00	HAL04A	01	1	TT3	E2		28B		801
03570	SAE	J2140	54					168	9		HAI290V	02	HAL69A	01	2	TT3	D1		25A		801
03571	SAE	J2140	55							M	HAL04A	01	HAL04A	00	1	TT3	E2		29B		801
03572	SAE	J2140	56		J2136	30		168	9		HAG690V	00	HAL69A	01	3	TT3	D1		26A		801
03573	SAE	J2140	57	SAE	J2140	79		168	9		SPI050	0E	HAL15A	01	1	TT3	E3		30B		801
03574	SAE	J2140	58								GND	01				TT3		40B		002	
03575	SAE	J2140	59		J2124	56		168	9		HAG150V	00	HAL15A	01	2	TT3	E3		31B		001
03576	SAE	J2140	60		J2124	31		168	9		HAG040V	00	HAL04A	01	2	TT3	E2		28A		001
03577	SAE	J2140	61		J2125	29		168	9		HAH027V1	00	HAL15A	01	3	TT3	E3		32B		001
03578	SAE	J2140	62	SAE	J2140	57		168	9		SPI050	0D	HAL04A	01	3	TT3	E2		29A		801
03579	SAE	J2140	63							M	HAL15A	01	HAL15A	00	1	TT3	E3		33B		801
03580	SAE	J2140	64								SPO	01				TT3	E1		30A		801
03581	SAE	J2140	65		J2125	78		168	9		HAH068V1	00	HAL48A	01	1	TT3	F2		34B		001
03582	SAE	J2140	66	SAE	J2140	41		160	9		SPI024	06		01	1	TT3	F1		31A		801
03583	SAE	J2140	67								GND	01				TT3					002
03584	SAE	J2140	68		J2144	79		168	9		SPI049	0C		01	2	TT3	E1		32A		001
03585	SAE	J2140	69		J2144	80		168	9		SPI050	0H	HAL66A	01	1	TT3	F3		35A		801
03586	SAE	J2140	70	SAE	J2140	62		168	9		SPI050	0C		01	3	TT3	E1		33A		801
03587	SAE	J2140	71	SAE	J2140	69		168	9		SPI050	0G	HAL48A	01	2	TT3	F2		36A		801
03588	SAE	J2140	72		J2128	68		168	9		HAG480V	00	HAL48A	01	3	TT3	F2		34A		001
03589	SAE	J2140	73							M	HAL26A	01	HAL26A	00	1	TT3	F1		36B		801
03590	SAE	J2140	74								HAL48A	01	HAL48A	00	1	TT3	F2		35B		801
03591	SAE	J2140	75		J2125	45		168	9		HAH042V1	00	HAL26A	01	1	TT3	F1		37B		001
03592	SAE	J2140	76		J2127	36		168	9		HAH092V1	00	HAL66A	01	2	TT3	F3		37A		001
03593	SAE	J2140	77		J2128	25		168	9		HAG260V	00	HAL26A	01	2	TT3	F1		38B		001
03594	SAE	J2140	78					168	9		HAGM30V	02	HAL66A	01	3	TT3	F3		38A		001
03595	SAE	J2140	79	SAE	J2140	71		168	9		SPI050	0F	HAL26A	01	3	TT3	F1		39B		801
03596	SAE	J2140	80							M	HAL66A	01	HAL66A	00	1	TT3	F3		39A		801

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2141  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 85

RECORD NUMBER	FROM			SIGNAL	SFO NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	SFO NO
	PREFIX	CONNECTOR	PIN											
02836	J2141	01		HATA00V	07	HATA00V	00	1	THI	A4		02B		
00548	J2141	02		GND	01				THI			01A		
02829	J2141	03		HATAC0V	07	HATAC0V	00	1	THI	A3		03A		
02943	J2141	04	J2141	HBCGEAV	01	HATAC0V	01	1	THI	A3		02A		
02939	J2141	05	J2141	HBCGDAV	01	HATA00V	01	1	THI	A4		03B		
02944	J2141	06	J2141	HBCGEAV	02	HATAB0V	01	1	THI	A2		05A		
02843	J2141	07		HATAE0V	07	HATAE0V	00	1	THI	A5		04B		
02822	J2141	08		HATAB0V	07	HATAB0V	00	1	THI	A2		04A		
02947	J2141	09	J2141	HBCGF0V	01	HATAE0V	01	1	THI	A5		05B		
02850	J2141	10		HATAF0V	07	HATAF0V	00	1	THI	A6		06B		
02940	J2141	11	J2141	HBCGDAV	02	HATAA0V	01	1	THI	A1		07A		
00125	J2141	12		+5V	01				THI					
02815	J2141	13		HATAA0V	07	HATAA0V	00	1	THI	A1		06A		
01301	J2141	14		HAENRAV	04	HAENRAV	00	1	THI	B4		08B		
02948	J2141	15	J2141	HBCGF0V	02	HATAF0V	01	1	THI	A6		07B		
00549	J2141	16		GND	01				THI			20B		
01303	J2141	17		HAENRO	02	HAENRAV	01	1	THI	B4		09B		
02872	J2141	18		HATAJOV	08	HATAJOV	00	1	THI	B3		09A		
03655	J2141	19	SAE	HAI080V	01	HAI080V	00	1	THI	B5		10B		801
02945	J2141	20	J2101	HBCGEAV	03	HATAJOV	01	1	THI	B3		10A		
03364	J2141	21		HAI08A	02	HAI080V	01	1	THI	B5		11B		801
02941	J2141	22	J2101	HBCGDAV	03	HATAG0V	01	1	THI	B1		14A		
02949	J2141	23	J2101	HBCGF0V	03	HATAH0V	01	1	THI	B2		12A		
02857	J2141	24		HATAG0V	07	HATAG0V	00	1	THI	B1		13A		
02864	J2141	25		HATAH0V	07	HATAH0V	00	1	THI	B2		11A		
03656	J2141	26	SAE	HAI060V	00	HAI060V	01	1	THI	B6		12B		801
03363	J2141	27	J2109	HAI06A	00	HAI060V	01	1	THI	B6		13B		801
00126	J2141	28		+5V	01				THI					
01374	J2141	29		HAET30V	04	HAET30V	01	1	THI	C4		15B		
01378	J2141	30		HAET30V	04	HAET30V	00	1	THI	C4		14B		
01387	J2141	31		HAET40V	02	HAET40V	00	1	THI	C5		16B		
00550	J2141	32		GND	01				THI			21B		
01381	J2141	33	J2144	HAET4P	03	HAET40V	01	1	THI	C5		17B		
01367	J2141	34		HAET20V	02	HAET20V	00	1	THI	C3		15A		
01352	J2141	35	J2135	HAET1P	03	HAET10V	01	1	THI	C2		16A		
01362	J2141	36		HAET2P	04	HAET20V	01	1	THI	C3		16A		
01358	J2141	37		HAET10V	02	HAET10V	00	1	THI	C2		17A		
02631	J2141	38	J2139	HAMGC3T	01	HAICC0V	01	1	THI	C1		20A		
01393	J2141	39	J2144	HAET5Q	03	HAET50V	01	1	THI	C6		19B		
02917	J2141	40	J2136	HAICC0V	02	HAICC0V	00	1	THI	C1		19A		
00600	J2141	41	J2139	HAACM4U	01	HAAM4AV	01	1	THI	D4		23B		BOMAN CARD
01396	J2141	42		HAET50V	02	HAET50V	00	1	THI	C6		18B		
00656	J2141	43	J2136	HAAM5AV	01	HAAM5AV	00	1	THI	D5		24B		
00551	J2141	44		GND	01				THI			27A		
00604	J2141	45	J2139	HAACN1U	01	HAAM5AV	01	1	THI	D5		25B		
00644	J2141	46	J2136	HAAM4AV	01	HAAM4AV	00	1	THI	D4		22B		
00596	J2141	47	J2139	HAACM2U	01	HAAM2AV	01	1	THI	D2		24A		
00632	J2141	48	J2136	HAAM3AV	01	HAAM3AV	00	1	THI	D3		21A		
00620	J2141	49	J2136	HAAM2AV	01	HAAM2AV	00	1	THI	D2		23A		
00598	J2141	50	J2139	HAAM3U	01	HAAM3AV	01	1	THI	D3		22A		
CONNECTOR J2141 CONTINUED ON THE NEXT PAGE ****														

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
 UNIT ASSEMBLY NO. 10281451 REV E INDEX J2141  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 86

RECORD NUMBER	PREFIX	FROM		TO		MULT. GROUP	CODE	COLOR	IDENT	SIGNAL	SEC. NO.	EQUATION	TERM. TYPE	FACT. TYPE	CNT. OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO.
		CONNECTION	PIN	CONNECTION	PIN															
00606		J2141	51	J2139	56		168	9		HAACN2U	01	HAAM6AV	01	1	THI	D6		27B		
00594		J2141	52	J2139	38		168	9		HAACM1U	01	HAAM1AV	01	1	THI	D1		26A		
00668		J2141	53	J2136	59		168	9		HAAM6AV	01	HAAM6AV	00	1	THI	D6		26B		
00608		J2141	54	J2136	51		168	9		HAAM1AV	01	HAAM1AV	00	1	THI	D1		25A		
01328		J2141	55	J2134	70		168	9		HAEN4A	02	HAEN40V	01	1	THI	E4		29B		
01330		J2141	56	J2134	53		168	9		HAEN40V	01	HAEN40V	00	1	THI	E4		28B	CT4	
01336		J2141	57	J2134	71		168	9		HAEN50V	02	HAEN50V	00	1	THI	E5		30B	CT5	
00552		J2141	58							GND	01				THI			40A		
01333		J2141	59	J2134	77		168	9		HAEN5A	02	HAEN50V	01	1	THI	E5		31B		
01324		J2141	60	J2134	62		168	9		HAEN30V	01	HAEN30V	00	1	THI	E3		28A	CT3	
01316		J2141	61	J2143	14		168	9		HAEN2A	03	HAEN20V	01	1	THI	E2		31A		
01322		J2141	62	J2138	70		168	9		HAEN3A	02	HAEN30V	01	1	THI	E3		29A		
01320		J2141	63				168	9		HAEN20V	03	HAEN20V	00	1	THI	E2		30A	CT2	
01307		J2141	64				168	9		HAEN1A	04	HAEN10V	01	1	THI	E1		33A		
01340		J2141	65	J2138	53		168	9		HAEN6A	02	HAEN60V	01	1	THI	E6		33B		A05
01313		J2141	66				168	9		HAEN10V	06	HAEN10V	00	1	THI	E1		32A	CT1	
00553		J2141	67							GND	01				THI					
01345		J2141	68				168	9		HAEN60V	05	HAEN60V	00	1	THI	E6		32B	CT6	A05
03033		J2141	69	J2136	73		168	9		HBSAKAV	01	HARM20V	01	1	THI	F3		35B		
02786		J2141	70	J2136	47		168	9		HARM20V	01	HARM20V	00	1	THI	F3		34B	ENA 2	
01739		J2141	71	J2139	59		168	9		HAGN60V	01	HAGN60V	00	1	THI	F2		36B		
00590		J2141	72	J2136	74		168	9		HAACMAV	01	HAACMAV	00	1	THI	F4		34A		
03369		J2141	73	J2139	71		168	9		SPI037	07	HAGN60V	01	1	THI	F2		37B		
00602		J2141	74	J2139	36		168	9		HAACM5U	01	HAACMAV	01	1	THI	F4		35A		
03408		J2141	75				168	9		HAEBCA	02	HAEBCOV	01	1	THI	F6		39A		801
03367		J2141	76				168	9		HAIATA	03	HAIATOV	01	1	THI	F5		37A		801
03657		J2141	77	SAE J2138	73		168	9		HAEBCOV	01	HAEBCOV	00	1	THI	F6		38A		801
03658		J2141	78	J2140	08		168	9		HAIATOV	01	HAIATOV	00	1	THI	F5		36A		801
03368		J2141	79	J2141	73		168	9		SPI037	06	HAGN50V	01	1	THI	F1		39B		
01736		J2141	80	J2139	57		168	9		HAGN50V	01	HAGN50V	00	1	THI	F1		38B	PULL DOWN	

DRAWING NUMBER WL10281451  
UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
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DATE 09-01-82 PAGE 87

RECORD NUMBER	FROM			SH. PC	TO			WRF				SIGNAL	SFO NO	EQUATION	TRFM	FACTOR	C-T OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	RE TO	MULTI GROUP	CODE	CO. GR											
00325		J2142	01									DNW	01				R05					
00554		J2142	02									GND	01				R05					
00326		J2142	03									DNW	01				R05					
00327		J2142	04									DNW	01				R05					
00328		J2142	05									DNW	01				R05					
00329		J2142	06									DNW	01				R05					
00330		J2142	07									DNW	01				R05					
00331		J2142	08									DNW	01				R05					
00332		J2142	09									DNW	01				R05					
00333		J2142	10									DNW	01				R05					
00334		J2142	11									DNW	01				R05					
00127		J2142	12									+5V	01				R05					
02951		J2142	13		J2128	11			168	9		HBC10B1	01	HACMC1V101	1	R05	A1					
00335		J2142	14									DNW	01				R05					
00681		J2142	15		J2139	39			168	9		HACMC1V1	02	HACMC1V100	1	R05	A1		T01			
00555		J2142	16									GND	01				R05					
02954		J2142	17		J2128	06			168	9		HBC11B1	01	HACMC2V101	1	R05	A2					
00684		J2142	18		J2139	41			168	9		HACMC2V1	02	HACMC2V100	1	R05	A2		T02			
02957		J2142	19		J2128	04			168	9		HBC12B1	01	HACMC3V101	1	R05	A3					
00687		J2142	20		J2139	43			168	9		HACMC3V1	02	HACMC3V100	1	R05	A3		T03			
03031		J2142	21		J2142	23			168	9		SPI038	0A	HACMC7V101	1	R05	A7				B01	
00690		J2142	22		J2139	45			168	9		HACMC4V1	02	HACMC4V100	1	R05	A4		T04			
03030		J2142	23		J2144	29			168	9		SPI038	0B	HACMC8V101	1	R05	A8				B01	
00693		J2142	24		J2139	53			168	9		HACMC5V1	02	HACMC5V100	1	R05	A5		T05			
02960		J2142	25		J2128	05			168	9		HBC13B1	01	HACMC4V101	1	R05	A4					
00696		J2142	26		J2139	55			168	9		HACMC6V1	02	HACMC6V100	1	R05	A6		T06			
02964		J2142	27		J2128	09			168	9		HBC14B1	02	HACMC5V101	1	R05	A5					
00128		J2142	28									+5V	01				R05					
00698		J2142	29		J2139	04			168	9		HACMC7V1	01	HACMC7V100	1	R05	A7		T07			
00336		J2142	30									DNW	01				R05					
02963		J2142	31		J2128	15			168	9		HBC15B1	01	HACMC6V101	1	R05	A6				A01	
00556		J2142	32									GND	01				R05					
00337		J2142	33									DNW	01				R05					
00701		J2142	34		J2139	06			168	9		HACMC8V1	01	HACMC8V100	1	R05	A8		T08			
00338		J2142	35									DNW	01				R05					
00339		J2142	36									DNW	01				R05					
03216		J2142	37									SPA	01		01	1	R05	B1				
03659		J2142	38									SPO	01		00	1	R05	B1		T09		
03217		J2142	39									SPA	01		01	1	R05	B2				
03660		J2142	40									SPO	01		00	1	R05	B2		T10		
03218		J2142	41									SPA	01		01	1	R05	B3				
03661		J2142	42									SPO	01		00	1	R05	B3		T11		
00340		J2142	43									DNW	01				R05					
00557		J2142	44									GND	01				R05					
03219		J2142	45									SPA	01		01	1	R05	B7				
03662		J2142	46									SPO	01		00	1	R05	B4		T12		
03220		J2142	47									SPA	01		01	1	R05	B8				
03663		J2142	48									SPO	01		00	1	R05	B5		T13		
03221		J2142	49									SPA	01		01	1	R05	B4				
03664		J2142	50									SPO	01		00	1	R05	B6		T14		
CONNECTOR J2142 CONTINUED ON THE NEXT PAGE ****																						

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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RECORD NUMBER	FROM			SHT	TO			WIRE				SPECIES	SIGNAL	SEQ NO	EQUATION	TFR	FACTOR	CKT OR CH P TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	PC B	MULTI GROUP	CODE	COLOR												
03222		J2142	51									SPA	01		01	1	R05	B5					
03665		J2142	52									SPO	01		00	1	R05	B7		T15			
03223		J2142	53									SPA	01		01	1	R05	B6					
03666		J2142	54									SPO	01		00	1	R05	B8		T16			
00341		J2142	55									DNW	01				R05						
00342		J2142	56									DNW	01				R05						
00343		J2142	57									DNW	01				R05						
00558		J2142	58									GND	01				R05						
03224		J2142	59									SPA	01		01	1	R05	C2					
03225		J2142	60									SPA	01		01	1	R05	C1					
03226		J2142	61									SPA	01		01	1	R05	C3					
03667		J2142	62									SPO	01		00	1	R05	C1		T17			
03227		J2142	63									SPA	01		01	1	R05	C7					
03668		J2142	64									SPO	01		00	1	R05	C2		T18			
03228		J2142	65									SPA	01		01	1	R05	C8					
03669		J2142	66									SPO	01		00	1	R05	C3		T19			
00559		J2142	67									GND	01				R05						
03670		J2142	68									SPO	01		00	1	R05	C4		T21			
03229		J2142	69									SPA	01		01	1	R05	C4					
03671		J2142	70									SPO	01		00	1	R05	C5		T20			
03230		J2142	71									SPA	01		01	1	R05	C5					
03672		J2142	72									SPO	01		00	1	R05	C6		T22			
03231		J2142	73									SPA	01		01	1	R05	C6					
03673		J2142	74									SPO	01		00	1	R05	C7		T23			
00344		J2142	75									DNW	01				R05						
03674		J2142	76									SPO	01		00	1	R05	C8		T24			
00345		J2142	77									DNW	01				R05						
00346		J2142	78									DNW	01				R05						
00347		J2142	79									DNW	01				R05						
00348		J2142	80									DNW	01				R05						



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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RECORD NUMBER	FROM			DIRECTION	TO			MULTI GROUP	WIRE				SIGNAL	SEQ NO	EQUATION	TERM	FACT	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		EN FC	CODE	COLOR	IDENT											
03675		J2143	01									SPO	01		00	1	TQ2	A2		02B			
00560		J2143	02									GND	01				TQ2			01A			
03402		J2143	03		J2143	11				16B	9	SPI044	02		01	1	TQ2	A3		02A			
03401		J2143	04		J2143	03				16B	9	SPI044	01		01	1	TQ2	A2		04A			
03354		J2143	05		J2143	07				16B	9	SPI036	01		01	2	TQ2	A2		03B			
02873		J2143	06									SPO	01		00	1	TQ2	A1		05A	C01		
03355		J2143	07		J2143	13				16B	9	SPI036	02		01	2	TQ2	A3		03A			
02871		J2143	08							16B	9	SPI048	07		01	1	TQ2	A1		06A	C01		
03676		J2143	09									SPO	01		00	1	TQ2	A3		04B			
02910		J2143	10		J2144	03				16B	9	SPI047	00C		01	2	TQ2	A1		07A	C01		
03403		J2143	11		J2143	24				16B	9	SPI044	03		01	1	TQ2	A4		05B			
00129		J2143	12									+5V	01				TQ2						
03356		J2143	13		J2139	22				16B	9	SPI036	03		01	2	TQ2	A4		06B			
01317		J2143	14							16B	9	HAEN2A	04	HAEN2A	00	1	TQ2	B2		09A			
03677		J2143	15									SPO	01		00	1	TQ2	A4		07B			
00561		J2143	16									GND	01				TQ2			01B			
01364		J2143	17		J2143	40				16B	9	HAET2Q	02	HAEN3A	01	1	TQ2	B3		08B			
01355		J2143	18		J2143	23				16B	9	HAET1Q	02	HAEN2A	01	1	TQ2	B2		10A			
01369		J2143	19		J2135	25				16B	9	HAET3P	02	HAEN3A	01	2	TQ2	B3		09B			
01360		J2143	20		J2143	36				16B	9	HAET2P	02	HAEN2A	01	2	TQ2	B2		11A			
01321		J2143	21		J2141	62				16B	9	HAEN3A	01	HAEN3A	00	1	TQ2	B3		10B			
03678		J2143	22									SPO	01		00	1	TQ2	B1		12A			
01356		J2143	23							16B	9	HAET1Q	03	HAEN4A	01	1	TQ2	B4		11B			
03404		J2143	24		J2143	29				16B	9	SPI044	04		01	1	TQ2	B1		13A			
01373		J2143	25		J2141	29				16B	9	HAET3Q	03	HAEN4A	01	2	TQ2	B4		12B			
03410		J2143	26		J2143	31				16B	9	SPI045	01		01	2	TQ2	B1		14A			
01327		J2143	27		J2141	55				16B	9	HAEN4A	01	HAEN4A	00	1	TQ2	B4		13B			
00130		J2143	28									+5V	01				TQ2						
03405		J2143	29		J2143	35				16B	9	SPI044	05		01	1	TQ2	C3		14B			
01339		J2143	30		J2141	65				16B	9	HAEN6A	01	HAEN6A	00	1	TQ2	C2		15A			
03411		J2143	31		J2143	37				16B	9	SPI045	02		01	2	TQ2	C3		15B			
00562		J2143	32									GND	01				TQ2			20B			
03679		J2143	33									SPO	01		00	1	TQ2	C3		16B			
01371		J2143	34		J2144	25				16B	9	HAET3Q	01	HAEN6A	01	1	TQ2	C2		16A			
03406		J2143	35		J2143	54				16B	9	SPI044	06		01	1	TQ2	C4		17B			
01361		J2143	36		J2141	36				16B	9	HAET2P	03	HAEN6A	01	2	TQ2	C2		17A			
03412		J2143	37		J2143	43				16B	9	SPI045	03		01	2	TQ2	C4		18B			
01332		J2143	38		J2141	59				16B	9	HAEN5A	01	HAEN5A	00	1	TQ2	C1		18A			
03680		J2143	39									SPO	01		00	1	TQ2	C4		19B			
01365		J2143	40							16B	9	HAET2Q	03	HAEN5A	01	1	TQ2	C1		19A			
03420		J2143	41		J2143	47				16B	9	SPI046	02		01	1	TQ2	D3		22B			
01351		J2143	42		J2141	35				16B	9	HAET1P	02	HAEN5A	01	2	TQ2	C1		20A			
03413		J2143	43		J2143	49				16B	9	SPI045	04		01	2	TQ2	D3		23B			
00563		J2143	44									GND	01				TQ2			21B			
03681		J2143	45									SPO	01		00	1	TQ2	O3		24B			
03682		J2143	46									SPO	01		00	1	TQ2	O2		21A			
03421		J2143	47		J2143	48				16B	9	SPI046	03		01	1	TQ2	O4		25B			
03422		J2143	48		J2143	65				16B	9	SPI046	04		01	1	TQ2	O2		22A			
03414		J2143	49		J2143	50				16B	9	SPI045	05		01	2	TQ2	O4		26B			
03415		J2143	50		J2143	56				16B	9	SPI045	06		01	2	TQ2	O2		23A			
CONNECTOR (J2143) CONTINUED ON THE NEXT PAGE ****																							

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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RECORD NUMBER	FROM			TO			WIRE				SIGNAL	SEQ NO	EQUATION	TERMS	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	CONNECTOR	PIN	EN TO	MULTI GROUP	COUP	COLOR	121 4T											
03683		J2143	51								SPO	01		00	1	TQ2	O4		27B		
03684		J2143	52								SPO	01		00	1	TQ2	O1		24A		
02916		J2143	53	J2141	40			168	9		HAICCOV	01	HAEBCA	01	1	TQ2	E3		28B		
03407		J2143	54	J2127	75			168	9		SPI044	07		01	1	TQ2	O1		25A	B01	
03017		J2143	55	J2101	09			168	9		HBHAI0V	02	HAEBCA	01	2	TQ2	E3		29B		
03416		J2143	56	J2143	79			168	9		SPI045	07		01	2	TQ2	O1		26A		
01258		J2143	57	J2141	75			168	9		HAEBCA	01	HAEBCA	00	1	TQ2	E3		30B	B01	
00564		J2143	58								GND	01				TQ2			27A		
01335		J2143	59	J2141	57			168	9		HAENSOV	01	HAGAQA	01	1	TQ2	E4		31R		
01349		J2143	60					168	9		HAETCA	04	HAETCA	00	1	TQ2	E2		28A		
02927		J2143	61	J2138	63			168	9		HA6CCO	01	HAGAQA	01	2	TQ2	E4		32B		
03016		J2143	62	J2143	55			168	9		HBHAI0V	01	HAETCA	01	1	TQ2	E2		29A		
01481		J2143	63	J2135	10			168	9		HAGAQA	01	HAGAQA	00	1	TQ2	E4		33R	A05	
01284		J2143	64	J2139	50			168	9		HAENAS	04	HAETCA	01	2	TQ2	E2		30A		
03423		J2143	65	J2143	71			168	9		SPI046	05		01	1	TQ2	F3		34B		
01302		J2143	66	J2141	17			168	9		HAENRO	01	HAENRO	00	1	TQ2	E1		31A		
00565		J2143	67								GND	01				TQ2			40A		
01283		J2143	68	J2143	64			168	9		HAENAS	03	HAENRO	01	1	TQ2	E1		32A		
03685		J2143	69								SPO	01		00	1	TQ2	F3		35A		
01405		J2143	70	J2135	75			168	9		HA55CA	01	HAENRO	01	2	TQ2	E1		33A		
03424		J2143	71	J2143	77			168	9		SPI046	06		01	1	TQ2	F2		36A		
03686		J2143	72								SPO	01		00	1	TQ2	F2		34A		
03434		J2143	73	J2127	78			168	9		SPI047	07		01	2	TQ2	F2		36B		
03433		J2143	74	J2143	73			168	9		SPI047	06		01	2	TQ2	F3		35B		
03687		J2143	75								SPO	01		00	1	TQ2	F1		37B		
03426		J2143	76	J2127	77			168	9		SPI046	08		01	1	TQ2	F4		37A		
03425		J2143	77	J2143	76			168	9		SPI046	07		01	1	TQ2	F1		38B		
03432		J2143	78	J2143	74			168	9		SPI047	05		01	2	TQ2	F4		38A		
03417		J2143	79	J2127	76			168	9		SPI045	08		01	2	TQ2	F1		39B		
03688		J2143	80								SPO	01		00	1	TQ2	F4		39A		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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 DATE 09-01-82 PAGE 91

RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEQ NO	EQUATION	TRM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	LINE	PREFIX	CONNECTOR	PIN	LINE	MULTI GROUP	CODE	COLOR	IDENT									AND	OR		
01346 00566		J2144	01 02		J2144	10							HAETCA GND	01 01	HAET2N	01	1	TDD	BN		02B 01B			
03428 01298		J2144	03 04		J2144	17 06			168	9			SPIO47 HAENRAV	01 01	HAET2Q HAET2P	01 01	1	TDD	BQ BP		02A 04A			
01357 01299		J2144	05 06		J2141 J2144	37 22			168	9			HAET10V HAENRAV	01 02	HAET2I HAET1P	01 01	1	TDD	BI AP		03B 05A			
01363 01375		J2144	07 08		J2143 J2144	17 14			168	9			HAET2Q HAET30V	01 01	HAET2Q HAET1I	01 01	1	TDD	BQ AI		03A 06A			
01359 01347		J2144	09 10		J2143 J2144	20 26			168	9			HAET2P HAETCA	01 02	HAET2P HAET1N	00 01	1	TDD	BP AN		04B 07A			
01350 00131		J2144	11 12		J2143	42			168	9			HAET1P +5V	01 01	HAET1P	00	1	TDD	AP		05B			
01354 01376		J2144	13 14		J2143	18 42			168	9			HAET1Q HAET30V	01 02	HAET1Q HAET4N	00 01	1	TDD	AQ DN		06B 09A			
03419 00567		J2144	15 16		J2143	41			168	9			SPIO46 GND	01 01	HAET1Q	01	1	TDD	AQ		07B 20B			
03429 01395		J2144	17 18		J2144 J2141	36 42			168	9			SPIO47 HAET50V	02 01	HAET4Q HAET4I	01 01	1	TDD	DQ DI		08B 10A			
01385 01281		J2144	19 20		J2144	38			168	9			HAET4Q HAENAS	03 01	HAET4Q HAET4P	00 01	1	TDD	DQ DP		09B 11A			
01382 01300		J2144	21 22		J2141	14			168	9			HAET4P HAENRAV	04 03	HAET4P HAET3P	00 01	1	TDD	DP CP		10B 12A			
01368 01366		J2144	23 24		J2143 J2141	19 34			168	9			HAET3P HAET20V	01 01	HAET3P HAET3I	00 01	1	TDD	CP CI		11B 13A			
01372 01348		J2144	25 26		J2143	25 60			168	9			HAET3Q HAETCA	02 03	HAET3Q HAET3N	00 01	1	TDD	CQ CN		12B 14A			
03441 00132		J2144	27 28		J2143	08			168	9			SPIO48 +5V	06 01	HAET3Q	01	1	TDD	CO		13B		C01	
03373 03045		J2144	29 30		J2144 J2101	52 14			168	9			SPIO38 HBT4COV	01 01	HAFTCQ HAFTCN	01 01	1	TDD	FQ FN		14B 15A		C01	
03705 00568		J2144	31 32										HAFTCQ GND	01 01	HAFTCQ	00	1	TDD	FQ		15B	FUNCTION TEST COM		
01414 01294		J2144	33 34		J2135 J2138	73 77			168	9			HAFTCP HAENES	01 01	HAFTCP HAFTCI	00 01	1	TDD	FP FI		16B 16A			
01388 03430		J2144	35 36		J2117 J2144	62 56			168	9			HAET5P SPIO47	01 03	HAET5P HAFTCP	00 01	1	TDD	EP FP		17B 17A			
01394 01282		J2144	37 38		J2143	68			168	9			HAET5Q HAENAS	04 02	HAET5Q HAET5P	00 01	1	TDD	EQ EP		18B 18A			
03440 01386		J2144	39 40		J2144 J2141	27 31			168	9			SPIO48 HAET40V	05 01	HAET5Q HAET5I	01 01	1	TDD	EQ EI		19B 19A			
03394 01377		J2144	41 42		J2144 J2141	53 30			168	9			SPIO42 HAET30V	01 03	HAFTBQ HAET5N	01 01	1	TDD	HQ EN		22B 20A		C01	
03689 00569		J2144	43 44		J2101	70			168	9			HAFTBQ GND	01 01	HAFTBQ	00	1	TDD	HQ		23B 27A		C01	
03690 03384		J2144	45 46		J2101 J2144	72 30			168	9			HAFTBP HBT4COV	01 00	HAFTBP HAFTBN	00 01	1	TDD	HP HN		24B 21A		C01 C01	
03691 03379		J2144	47 48		J2112	56			168	9			SPO HAFTCOV	01 00	HAFTBI	00	1	TDD	GP HI		25B 22A		C01	
03692 03389		J2144	49 50		J2144	64			168	9			SPO SPIO41	01 01	HAFTBP	00 01	1	TDD	GQ HP		26B 23A		C01	

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RECORD NUMBER	FROM			SMT	TO			SMT	WIRE			SIGNAL	SFC NO	EQUATION	T.C.	FACTOR	EXT OR CHILD TYPE	GROUP	L.S.A. OR POWER PLANE	TEST POINTS		SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN		MULTI GROUP	CODE	COL. GR									DEN.	ANI		
03335		J2144	51		J2144	63			168	9		SPI034	01	01	1	TDD	GQ			27B			
03374		J2144	52		J2144	66			168	9		SPI038	02	01	1	TDD	GP			24A			
03395		J2144	53		J2144	65			168	9		SPI042	02	01	1	TDD	KQ			28B			
03439		J2144	54		J2144	39			168	9		SPI048	04	01	1	TDD	GI			25A			
03693		J2144	55									SPO	01	00	1	TDD	KQ			29B			
03431		J2144	56		J2143	78			168	9		SPI047	04	01	1	TDD	GN			26A			
03694		J2144	57									SPO	01	00	1	TDD	KP			30B			
00570		J2144	58									GND	01			TDD				40A			
03695		J2144	59									SPO	01	00	1	TDD	JP			31B			
03385		J2144	60		J2144	72			168	9		SPI040	02	01	1	TDD	KN			28A			
03696		J2144	61									SPO	01	00	1	TDD	JQ			32B			
03380		J2144	62		J2144	71			168	9		SPI039	02	01	1	TDD	KI			29A			
03336		J2144	63		J2139	77			168	9		SPI034	02	01	1	TDD	JQ			33B			
03390		J2144	64		J2144	73			168	9		SPI041	02	01	1	TDD	KP			30A			
03396		J2144	65		J2139	78			168	9		SPI042	03	01	1	TDD	MQ			34B			
03375		J2144	66		J2144	75			168	9		SPI038	03	01	1	TDD	JP			31A			
00571		J2144	67									GND	01			TDD				40B			
03438		J2144	68		J2144	54			168	9		SPI048	03	01	1	TDD	JI			32A			
03697		J2144	69									SPO	01	00	1	TDD	MP			35A			
03444		J2144	70		J2129	56			168	9		SPI049	02	01	1	TDD	JN			33A			
03381		J2144	71		J2139	80			168	9		SPI039	03	01	1	TDD	MI			36A			
03386		J2144	72		J2139	69			168	9		SPI040	03	01	1	TDD	MN			34A			
03391		J2144	73		J2139	79			168	9		SPI041	03	01	1	TDD	MP			36B			
03698		J2144	74									SPO	01	00	1	TDD	MQ			35B			
03376		J2144	75		J2139	75			168	9		SPI038	04	01	1	TDD	LP			37B			
03699		J2144	76									SPO	01	00	1	TDD	LP			37A			
03437		J2144	77		J2144	68			168	9		SPI048	02	01	1	TDD	LI			38B			
03700		J2144	78									SPO	01	00	1	TDD	LQ			38A			
03443		J2144	79		J2144	70			168	9		SPI049	01	01	1	TDD	LN			39B			
03446		J2144	80		J2129	62			168	9		SPI050	01	01	1	TDD	LQ			39A			

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RECORD NUMBER	FROM				TO				WIRE				SPEC INST / USE	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO	
	PREFIX	CONNECTOR	PIN	SH TC	PREFIX	CONNECTOR	PIN	SH TC	MULTI-GROUP	CODE	COLOR	IDENT													
00900		J2145	01		J2112	47				168	9			HADB50	01	HAT101E	01	1	TS4	A2				02B	
00572		J2145	02											GND	01					TS4					01A
00895		J2145	03		J2112	52				168	9			HADBRO	01	HAT100E	01	1	TS4	A1				03B	
00905		J2145	04		J2112	50				168	9			HADBT0	01	HAT102E	01	1	TS4	A3				02A	
02892		J2145	05							168	9			HAT093E	02	HAT100E	01	2	TS4	A1				04B	
00910		J2145	06		J2112	41				168	9			HADBU0	01	HAT103E	01	1	TS4	A4				03A	
03739		J2145	07										M	HAT100E	01	HAT100E	00	1	TS4	A1				05B	
02828		J2145	08		J2141	03				168	9			HATACOV	06	HAT101E	01	2	TS4	A2				04A	
02842		J2145	09		J2141	07				168	9			HATAEOV	06	HAT103E	01	2	TS4	A4				06B	
02894		J2145	10							168	9			HAT103E	02	HAT103E	00	1	TS4	A4				05A	
03740		J2145	11										M	HAT101E	01	HAT101E	00	1	TS4	A2				07B	
00133		J2145	12											+5V	01				TS4					08A	
03741		J2145	13										M	HAT102E	01	HAT102E	00	1	TS4	A3				07A	
02835		J2145	14		J2141	01				168	9			HATADOV	06	HAT102E	01	2	TS4	A3				06A	
00862		J2145	15							168	9			HADBJ0	03	HAT081E	01	1	TS4	B2				08B	
00573		J2145	16											GND	01				TS4					01B	
00855		J2145	17		J2112	22				168	9			HADBIO	01	HAT080E	01	1	TS4	B1				09B	
00865		J2145	18		J2112	20				168	9			HADBKO	02	HAT082E	01	1	TS4	B3				09A	
02888		J2145	19							168	9			HAT073E	02	HAT080E	01	2	TS4	B1				10B	
00870		J2145	20		J2112	17				168	9			HADBLO	01	HAT083E	01	1	TS4	B4				10A	
03733		J2145	21										M	HAT080E	01	HAT080E	00	1	TS4	B1				11B	
02869		J2145	22		J2146	08				168	9			HATAJOV	05	HAT081E	01	2	TS4	B2				11A	
02863		J2145	23		J2141	25				168	9			HATAHOV	06	HAT083E	01	2	TS4	B4				12B	
02889		J2145	24		J2146	33				168	9			HAT083E	01	HAT083E	00	1	TS4	B4				12A	
03735		J2145	25										M	HAT082E	01	HAT082E	00	1	TS4	B3				14A	
02855		J2145	26		J2146	14				168	9			HATAGOV	05	HAT082E	01	2	TS4	B3				13A	
03734		J2145	27										M	HAT081E	01	HAT081E	00	1	TS4	B2				13B	
00134		J2145	28											+5V	01				TS4					08A	
00940		J2145	29		J2112	74				168	9			HADCC0	01	HAT121E	01	1	TS4	C2				14B	
00945		J2145	30		J2112	76				168	9			HADCE0	01	HAT122E	01	1	TS4	C3				15A	
00935		J2145	31		J2112	69				168	9			HADCC0	01	HAT120E	01	1	TS4	C1				15B	
00574		J2145	32											GND	01				TS4					27A	
02895		J2145	33		J2147	24				168	9			HAT113E	01	HAT120E	01	2	TS4	C1				16B	
00950		J2145	34		J2112	75				168	9			HADCF0	01	HAT123E	01	1	TS4	C4				16A	
03745		J2145	35										M	HAT120E	01	HAT120E	00	1	TS4	C1				17B	
02826		J2145	36		J2147	22				168	9			HATACOV	04	HAT121E	01	2	TS4	C2				17A	
02840		J2145	37		J2147	23				168	9			HATAEOV	04	HAT123E	01	2	TS4	C4				18B	
02898		J2145	38							168	9			HAT123E	02	HAT123E	00	1	TS4	C4				18A	
03746		J2145	39										M	HAT121E	01	HAT121E	00	1	TS4	C2				19B	
02833		J2145	40		J2147	26				168	9			HATADOV	04	HAT122E	01	2	TS4	C3				19A	
00780		J2145	41		J2108	52				168	9			HADANO	01	HAT041E	01	1	TS4	D2				22B	
03747		J2145	42										M	HAT122E	01	HAT122E	00	1	TS4	C3				20A	
00775		J2145	43		J2108	39				168	9			HADAMO	01	HAT040E	01	1	TS4	D1				23B	
00575		J2145	44											GND	01				TS4					40A	
02880		J2145	45							168	9			HAT033E	02	HAT040E	01	2	TS4	D1				24B	
00785		J2145	46		J2109	52				168	9			HADAPO	01	HAT042E	01	1	TS4	D3				21A	
03721		J2145	47										M	HAT040E	01	HAT040E	00	1	TS4	D1				25B	
00790		J2145	48		J2109	46				168	9			HADAQ0	01	HAT043E	01	1	TS4	D4				22A	
02846		J2145	49		J2147	37				168	9			HATAFOV	03	HAT043E	01	2	TS4	D4				26B	
02811		J2145	50		J2147	36				168	9			HATABOV	03	HAT041E	01	2	TS4	D2				23A	
																								A04	
	CONNECTOR J2145																								
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RECORD NUMBER	FROM			TO	TO			WIRE				SIGNAL	SEQ NO	EQUATION	F	T	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	SIZE	MULTI GROUP	CODE	COLOR												
03722		J2145	51									M	HAT041E	01	HAT041E	00	1	TS4	D2		27B		
02881		J2145	52		J2146	59			168	9			HAT043E	01	HAT043E	00	1	TS4	D4		24A		
00980		J2145	53		J2116	15			168	9			HADCL0	01	HAT141E	01	1	TS4	E2		28B		
02818		J2145	54		J2147	40			168	9			HATAAOV	03	HAT042E	01	2	TS4	D3		25A		A04
00977		J2145	55						168	9			HADCK0	03	HAT140E	01	1	TS4	E1		29B		
03723		J2145	56						168	9		M	HAT042E	01	HAT042E	00	1	TS4	D3		26A		
00985		J2145	57		J2116	22			168	9			HADCNO	01	HAT142E	01	1	TS4	E3		28A		
00576		J2145	58										GND	01				TS4			40B		
02899		J2145	59		J2147	52			168	9			HAT133E	01	HAT140E	01	2	TS4	F1		30B		
00990		J2145	60		J2116	27			168	9			HADCNO	01	HAT143E	01	1	TS4	E4		29A		
03751		J2145	61									M	HAT140E	01	HAT140E	00	1	TS4	E1		31B		
02824		J2145	62		J2147	50			168	9			HATACOV	02	HAT141E	01	2	TS4	E2		30A		
02838		J2145	63		J2147	49			168	9			HATACOV	02	HAT143E	01	2	TS4	E4		32B		
02902		J2145	64						168	9			HAT143E	02	HAT143E	00	1	TS4	E4		31A		
03752		J2145	65									M	HAT141E	01	HAT141E	00	1	TS4	E2		33B		
02831		J2145	66		J2147	54			168	9			HATADOV	02	HAT142E	01	2	TS4	E3		32A		
00577		J2145	67										GND	01				TS4					
03753		J2145	68									M	HAT142E	01	HAT142E	00	1	TS4	E3		33A		
01048		J2145	69		J2116	59			168	9			HADCY0	01	HAT171E	01	1	TS4	F2		34B		
01047		J2145	70						168	9			HADCZ0	03	HAT172E	01	1	TS4	F3		34A		
01035		J2145	71		J2116	55			168	9			HADCX0	01	HAT170E	01	1	TS4	F1		35B		
01052		J2145	72						168	9			HADDA0	03	HAT173E	01	1	TS4	F4		35A		
02906		J2145	73						168	9			HAT163E	02	HAT170E	01	2	TS4	F1		36B		
02866		J2145	74		J2146	50			168	9			HATAJOV	02	HAT171E	01	2	TS4	F2		36A		
03760		J2145	75									M	HAT170E	01	HAT170E	00	1	TS4	F1		37B		
02907		J2145	76		J2146	73			168	9			HAT173E	01	HAT173E	00	1	TS4	F4		37A		
02859		J2145	77		J2146	49			168	9			HATAHOV	02	HAT173E	01	2	TS4	F4		38B		
02852		J2145	78		J2146	54			168	9			HATAGOV	02	HAT172E	01	2	TS4	F3		38A		
03761		J2145	79									M	HAT171E	01	HAT171E	00	1	TS4	F2		39B		
03762		J2145	80									M	HAT172E	01	HAT172E	00	1	TS4	F3		39A		

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RECORD NUMBER	FROM				TO				WIRE				SIGNAL	SEC NO	EQUATION	TERM	CXT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECQ NO
	PREFIX	CONNECTOR	PIN	WIRE	PREFIX	CONNECTOR	PIN	WIRE	MULTI GROUP	CODE	COLOR	IDENT										
00840	J2146	01		J2112	05		16B 9					HADBF0	01	HAT071E	01	1 TS4	A2			02B		
00578	J2146	02										GND	01			1 TS4				01A		
00835	J2146	03		J2112	04		16B 9					HADBE0	01	HAT070E	01	1 TS4	A1			03B		
00845	J2146	04		J2112	09		16B 9					HADBG0	01	HAT072E	01	1 TS4	A3			02A		
02886	J2146	05					16B 9					HAT063E	02	HAT070E	01	2 TS4	A1			04B		
00850	J2146	06		J2112	15		16B 9					HADBH0	01	HAT073E	01	1 TS4	A4			03A		
03730	J2146	07									M	HAT070E	01	HAT070E	00	1 TS4	A1			05B		
02870	J2146	08		J2141	18		16B 9					HATAJ0V	06	HAT071E	01	2 TS4	A2			04A		
02862	J2146	09		J2145	23		16B 9					HATAHOV	05	HAT073E	01	2 TS4	A4			06B		
02887	J2146	10		J2145	19		16B 9					HAT073E	01	HAT073E	00	1 TS4	A4			05A		
03731	J2146	11									M	HAT071E	01	HAT071E	00	1 TS4	A2			07B		
00135	J2146	12										+5V	01			1 TS4				08A		
03732	J2146	13									M	HAT072E	01	HAT072E	00	1 TS4	A3			07A		
02856	J2146	14		J2141	24		16B 9					HATAG0V	06	HAT072E	01	2 TS4	A3			06A		
00740	J2146	15		J2109	15		16B 9					HADAFO	01	HAT021E	01	1 TS4	B2			08B		
00579	J2146	16										GND	01			1 TS4				01B		
00735	J2146	17		J2108	20		16B 9					HADAEO	01	HAT020E	01	1 TS4	B1			09B		
00745	J2146	18		J2109	22		16B 9					HADAGO	01	HAT022E	01	1 TS4	B3			09A		
02876	J2146	19					16B 9					HAT013E	02	HAT020E	01	2 TS4	B1			10B		
00750	J2146	20		J2109	14		16B 9					HADAHO	01	HAT023E	01	1 TS4	B4			10A		
03715	J2146	21									M	HAT020E	01	HAT020E	00	1 TS4	B1			11B		
02813	J2146	22		J2147	08		16B 9					HAT0B0V	05	HAT021E	01	2 TS4	B2			11A		
02848	J2146	23		J2147	09		16B 9					HATAFOV	05	HAT023E	01	2 TS4	B4			12B		
02877	J2146	24		J2147	33		16B 9					HAT023E	01	HAT023E	03	1 TS4	B4			12A		
03717	J2146	25									M	HAT022E	01	HAT022E	00	1 TS4	B3			14A		
02820	J2146	26		J2147	14		16B 9					HATAAOV	05	HAT022E	01	2 TS4	B3			13A		
03716	J2146	27									M	HAT021E	01	HAT021E	00	1 TS4	B2			13B		
00136	J2146	28										+5V	01			1 TS4				08A		
00880	J2146	29		J2112	29		16B 9					HADBN0	01	HAT091E	01	1 TS4	C2			14B		
00885	J2146	30		J2112	33		16B 9					HADBP0	01	HAT092E	01	1 TS4	C3			15A		
00875	J2146	31		J2112	36		16B 9					HADBM0	01	HAT090E	01	1 TS4	C1			15B		
00580	J2146	32										GND	01			1 TS4				27A		
02890	J2146	33					16B 9					HAT083E	02	HAT090E	01	2 TS4	C1			16B		
00890	J2146	34		J2112	39		16B 9					HADBQ0	01	HAT093E	01	1 TS4	C4			16A		
03736	J2146	35									M	HAT090E	01	HAT090E	00	1 TS4	C1			17B		
02868	J2146	36		J2145	22		16B 9					HATAJ0V	04	HAT091E	01	2 TS4	C2			17A		
02861	J2146	37		J2146	09		16B 9					HATAHOV	04	HAT093E	01	2 TS4	C4			18B		
02891	J2146	38		J2145	05		16B 9					HAT093E	01	HAT093E	00	1 TS4	C4			18A		
03737	J2146	39									M	HAT091E	01	HAT091E	00	1 TS4	C2			19B		
02854	J2146	40		J2145	26		16B 9					HATAG0V	04	HAT092E	01	2 TS4	C3			19A		
01020	J2146	41		J2116	39		16B 9					HADCU0	01	HAT161E	01	1 TS4	D2			22B		
03738	J2146	42									M	HAT092E	01	HAT092E	00	1 TS4	C3			20A		
01015	J2146	43		J2116	33		16B 9					HADCT0	01	HAT160E	01	1 TS4	D1			23B		
00581	J2146	44										GND	01			1 TS4				40A		
02903	J2146	45		J2147	64		16B 9					HAT153E	01	HAT160E	01	2 TS4	D1			24B		
01025	J2146	46		J2116	52		16B 9					HADCV0	01	HAT162E	01	1 TS4	D3			21A		
03757	J2146	47									M	HAT160E	01	HAT160E	00	1 TS4	D1			25B		
01030	J2146	48		J2116	47		16B 9					HADCW0	01	HAT163E	01	1 TS4	D4			22A		
02860	J2146	49		J2146	37		16B 9					HATAHOV	03	HAT163E	01	2 TS4	D4			26B		
02867	J2146	50		J2146	36		16B 9					HATAJ0V	03	HAT161E	01	2 TS4	D2			23A		
CONNECTOR	J2146			CONTINUED ON THE NEXT PAGE ****																		

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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 DATE 09-01-82 PAGE 96

RECORD NUMBER	FROM			SHT	TO			WIRE				SIGNAL	SFG NO	EQUATION	TDR	CVT OR C/P TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		PREFIX	CONNECTOR	PIN	WIRE	GROUP	CODE	CG										
03758		J2146	51									M	HAT161E	01	HAT161E	00	1	TS4	D2	27B	
02905		J2146	52		J2145	73			168	9			HAT163E	01	HAT163E	00	1	TS4	D4	24A	
00800		J2146	53		J2109	60			168	9			HADASO	01	HAT051E	01	1	TS4	E2	28B	
02853		J2146	54		J2146	40			168	9			HATAGOV	03	HAT162E	01	2	TS4	D3	25A	
00795		J2146	55		J2109	66			168	9			HADARO	01	HAT050E	01	1	TS4	E1	29B	
03759		J2146	56									M	HAT162E	01	HAT162E	00	1	TS4	D3	26A	
00805		J2146	57		J2109	57			168	9			HADATO	01	HAT052E	01	1	TS4	E3	28A	
00582		J2146	58										GND	01				TS4		40B	
02882		J2146	59						168	9			HAT043E	02	HAT050E	01	2	TS4	E1	30F	
00810		J2146	60		J2109	63			168	9			HADAUO	01	HAT053E	01	1	TS4	E4	29A	
03724		J2146	61									M	HAT050E	01	HAT050E	00	1	TS4	F1	31B	
02810		J2146	62		J2145	50			168	9			HATABOV	02	HAT051E	01	2	TS4	E2	30A	A04
02845		J2146	63		J2145	49			168	9			HATAFOV	02	HAT053E	01	2	TS4	E4	32B	
02883		J2146	64		J2147	73			168	9			HAT053E	01	HAT053E	00	1	TS4	E4	31A	
03725		J2146	65									M	HAT051E	01	HAT051E	00	1	TS4	E2	33B	
02817		J2146	66		J2145	54			168	9			HATAAOV	02	HAT052E	01	2	TS4	E3	32A	A04
00583		J2146	67										GND	01				TS4			
03726		J2146	68									M	HAT052E	01	HAT052E	00	1	TS4	E3	33A	
01061		J2146	69		J2116	69			168	9			HADDCO	02	HAT181E	01	1	TS4	F2	34B	
01060		J2146	70		J2116	74			168	9			HADDDO	00	HAT182E	01	1	TS4	F3	34A	A01
01055		J2146	71		J2116	73			168	9			HADDBO	01	HAT180E	01	1	TS4	F1	35B	A01
01070		J2146	72		J2116	76			168	9			HADDEO	01	HAT183E	01	1	TS4	F4	35A	
02908		J2146	73						168	9			HAT173E	02	HAT180E	01	2	TS4	F1	36B	
02865		J2146	74		J2145	74			168	9			HATAJOV	01	HAT181E	01	2	TS4	F2	36A	
03763		J2146	75									M	HAT180E	01	HAT180E	00	1	TS4	F1	37B	
02909		J2146	76		J2101	22			168	9			HAT183E	01	HAT183E	00	1	TS4	F4	37A	C01
02858		J2146	77		J2145	77			168	9			HATAHOV	01	HAT183E	01	2	TS4	F4	38B	
02851		J2146	78		J2145	78			168	9			HATAGOV	01	HAT182E	01	2	TS4	F3	38A	
03764		J2146	79									M	HAT181E	01	HAT181E	00	1	TS4	F2	39B	
03765		J2146	80									M	HAT182E	01	HAT182E	00	1	TS4	F3	39A	



RECORD NUMBER	FROM				TO				WIRE			PK INST MISC	SIGNAL	SEQ NO	EQUATION	TERM	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN	INTO	PREFIX	CONNECTOR	PIN	INTO	MULTI GROUP	CODE	COLOR												
00720	J2147	01		J2108	05				168	9			HADAB0	01	HAT011E	01	1	TS4	A2		02B		
00584	J2147	02		J2108	05				168	9			GND	01	HAT011E	01	1	TS4	A2		01A		
00715	J2147	03		J2108	11				168	9			HADAA0	01	HAT010E	01	1	TS4	A1		03B		
00725	J2147	04		J2108	09				168	9			HADAC0	01	HAT012E	01	1	TS4	A3		02A		
03442	J2147	05		J2141	71				168	9			HAGN60V	00C	HAT013E	01	2	TS4	A1		04B	C01	
00730	J2147	06		J2109	01				168	9			HADAD0	01	HAT013E	01	1	TS4	A4		03A		
03712	J2147	07										M	HAT010E	01	HAT010E	00	1	TS4	A1		05B		
02814	J2147	08		J2141	08				168	9			HATAB0V	06	HAT011E	01	2	TS4	A2		04A	A02	
02849	J2147	09		J2141	10				168	9			HATAF0V	06	HAT013E	01	2	TS4	A4		06B		
02875	J2147	10		J2146	19				168	9			HAT013E	01	HAT013E	00	1	TS4	A4		05A		
03713	J2147	11										M	HAT011E	01	HAT011E	00	1	TS4	A2		07B		
00137	J2147	12											+5V	01	HAT011E	01	1	TS4			08A		
03714	J2147	13										M	HAT012E	01	HAT012E	00	1	TS4	A3		07A		
02821	J2147	14		J2141	13				168	9			HATAA0V	06	HAT012E	01	2	TS4	A3		06A	A02	
00922	J2147	15							168	9			HADBW0	03	HAT111E	01	1	TS4	B2		08B		
00585	J2147	16											GND	01	HAT111E	01	1	TS4			01B		
00915	J2147	17		J2112	59				168	9			HADBVO	01	HAT110E	01	1	TS4	B1		09B		
00927	J2147	18							168	9			HADCA0	03	HAT112E	01	1	TS4	B3		09A		
02893	J2147	19		J2145	10				168	9			HAT103E	01	HAT110E	01	2	TS4	B1		10B		
00932	J2147	20							168	9			HADC80	03	HAT113E	01	1	TS4	B4		10A		
03742	J2147	21										M	HAT110E	01	HAT110E	00	1	TS4	B1		11B		
02827	J2147	22		J2145	08				168	9			HATAC0V	05	HAT111E	01	2	TS4	B2		11A		
02841	J2147	23		J2145	09				168	9			HATAE0V	05	HAT113E	01	2	TS4	B4		12B		
02896	J2147	24							168	9			HAT113E	02	HAT113E	00	1	TS4	B4		12A		
03744	J2147	25										M	HAT112E	01	HAT112E	00	1	TS4	B3		14A		
02834	J2147	26		J2145	14				168	9			HATAD0V	05	HAT112E	01	2	TS4	B3		13A		
03743	J2147	27										M	HAT111E	01	HAT111E	00	1	TS4	B2		13B		
00138	J2147	28											+5V	01	HAT111E	01	1	TS4			08A		
00760	J2147	29		J2108	36				168	9			HADAJ0	01	HAT031E	01	1	TS4	C2		14B		
00765	J2147	30		J2108	29				168	9			HADAK0	01	HAT032E	01	1	TS4	C3		15A		
00755	J2147	31		J2109	21				168	9			HADAI0	01	HAT030E	01	1	TS4	C1		15B		
00586	J2147	32											GND	01	HAT030E	01	1	TS4			27A		
02878	J2147	33							168	9			HAT023E	02	HAT030E	01	2	TS4	C1		16B		
00770	J2147	34		J2108	33				168	9			HADAL0	01	HAT033E	01	1	TS4	C4		16A		
03718	J2147	35										M	HAT030E	01	HAT030E	00	1	TS4	C1		17B		
02812	J2147	36		J2146	22				168	9			HATAB0V	04	HAT031E	01	2	TS4	C2		17A	A04	
02847	J2147	37		J2146	23				168	9			HATAF0V	04	HAT033E	01	2	TS4	C4		18B		
02879	J2147	38		J2145	45				168	9			HAT033E	01	HAT033E	00	1	TS4	C4		18A		
03719	J2147	39										M	HAT031E	01	HAT031E	00	1	TS4	C2		19B		
02819	J2147	40		J2146	26				168	9			HATAA0V	04	HAT032E	01	2	TS4	C3		19A	A04	
00960	J2147	41		J2116	06				168	9			HADCH0	01	HAT131E	01	1	TS4	D2		22B		
03720	J2147	42										M	HAT032E	01	HAT032E	00	1	TS4	C3		20A		
00955	J2147	43		J2116	11				168	9			HADCG0	01	HAT130E	01	1	TS4	D1		23B		
00587	J2147	44											GND	01	HAT130E	01	1	TS4			40A		
02897	J2147	45		J2145	38				168	9			HAT123E	01	HAT130E	01	2	TS4	D1		24B		
00965	J2147	46		J2116	04				168	9			HADC10	01	HAT132E	01	1	TS4	D3		21A		
03748	J2147	47										M	HAT130E	01	HAT130E	00	1	TS4	D1		25B		
00972	J2147	48							168	9			HADCJ0	03	HAT133E	01	1	TS4	D4		22A		
02839	J2147	49		J2145	37				168	9			HATAE0V	03	HAT133E	01	2	TS4	D4		26B		
02825	J2147	50		J2145	36				168	9			HATAC0V	03	HAT131E	01	2	TS4	D2		23A		

CONNECTOR J2147 CONTINUED ON THE NEXT PAGE \*\*\*\*

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

CONNECTOR UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2 DATE

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RECORD NUMBER	FROM			TO	WIRE				SIGNAL	SEQ NO	EQUATION	TERI	FACTOR	CKT OR CHIP TYPE	GROUP	LOAD OR POWER PLANE	TEST POINTS AND/OR	SIGNAL DESCRIPTION	ECO NO
	PREFIX	CONNECTOR	PIN		CONDUCTOR	PIN	DI	MULTI GROUP											
03749	J2147	51								HAT131E	01	HAT131E	00	1	TS4	D2	27B		
02900	J2147	52					168	9		HAT133E	02	HAT133E	00	1	TS4	D4	24A		
01000	J2147	53		J2116	35		168	9		HADCQ0	01	HAT151E	01	1	TS4	E2	28B		
02832	J2147	54		J2145	40		168	9		HATAD0V	03	HAT132E	01	2	TS4	D3	25A		
00995	J2147	55		J2116	38		168	9		HADCP0	01	HAT150E	01	1	TS4	E1	29B		
03750	J2147	56								HAT132E	01	HAT132E	00	1	TS4	D3	26A		
01005	J2147	57		J2116	36		168	9		HADCR0	01	HAT152E	01	1	TS4	E3	28A		
00588	J2147	58								GND	01				TS4		28A		
02901	J2147	59		J2145	64		168	9		HAT143E	01	HAT150E	01	2	TS4	E1	30B		
01012	J2147	60					168	9		HADCS0	03	HAT153E	01	1	TS4	E4	29A		
03754	J2147	61								HAT150E	01	HAT150E	00	1	TS4	E1	31B		
02823	J2147	62		J2145	62		168	9		HATAC0V	01	HAT151E	01	2	TS4	E2	30A		A01
02837	J2147	63		J2145	63		168	9		HATAE0V	01	HAT153E	01	2	TS4	E4	32B		
02904	J2147	64					168	9		HAT153E	02	HAT153E	00	1	TS4	E4	31A		
03755	J2147	65								HAT151E	01	HAT151E	00	1	TS4	E2	33B		
02830	J2147	66		J2145	66		168	9		HATAD0V	01	HAT152E	01	2	TS4	E3	32A		
00589	J2147	67								GND	01				TS4				
03756	J2147	68								HAT152E	01	HAT152E	00	1	TS4	E3	33A		
00820	J2147	69		J2108	73		168	9		HADBB0	01	HAT061E	01	1	TS4	F2	34B		
00825	J2147	70		J2108	69		168	9		HADBC0	01	HAT062E	01	1	TS4	F3	34A		
00815	J2147	71		J2108	79		168	9		HADBA0	01	HAT060E	01	1	TS4	F1	35B		
00830	J2147	72		J2109	75		168	9		HADBD0	01	HAT063E	01	1	TS4	F4	35A		
02884	J2147	73					168	9		HAT053E	02	HAT060E	01	2	TS4	F1	36B		
02809	J2147	74		J2146	62		168	9		HATAB0V	01	HAT061E	01	2	TS4	F2	36A		A04
03727	J2147	75								HAT060E	01	HAT060E	00	1	TS4	F1	37B		
02885	J2147	76		J2146	05		168	9		HAT063E	01	HAT063E	00	1	TS4	F4	37A		
02844	J2147	77		J2146	63		168	9		HATAF0V	01	HAT063E	01	2	TS4	F4	38B		
02816	J2147	78		J2146	66		168	9		HATAA0V	01	HAT062E	01	2	TS4	F3	38A		A04
03728	J2147	79								HAT061E	01	HAT061E	00	1	TS4	F2	39B		
03729	J2147	80								HAT062E	01	HAT062E	00	1	TS4	F3	39A		

CARD RACK ASSEMBLY - DIGITAL, RH  
LOGIC WIRE LIST  
WL10281451

**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 WIRED RH MTS.
7. ALL 8XXXXX CONTROLLED NUMBERS ARE PREFIXED BY CODE IDENT "13973".
8. ECOs WILL BE WRITTEN SHOWING YELLOW HAND WIRE BEING USED FOR CHANGES TO AUTOMATIC WIRING. THESE SAME YELLOW WIRES WILL BE INCORPORATED AS WHITE AUTOMATIC WIRES AT THE NEXT DRAWING UPDATE.

**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.

Drawing No.  
 WL1 0281451  
 Rev. E, sheet 2

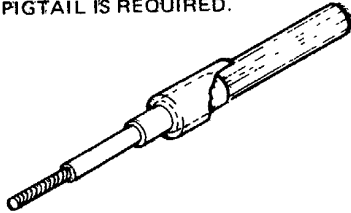
**H78 STRING AND CONNECTOR LIST, DEFINITION OF FIELDS- Continued**

- Q. Will cause an equation record to be omitted from logic listing.
- R. Will suppress printing the "FROM/TO" pin number in the string and connector lists.
- S. Do not move record number to the ident field for an ADD transaction in the harness string and double entry only. (Use only when adding a 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.

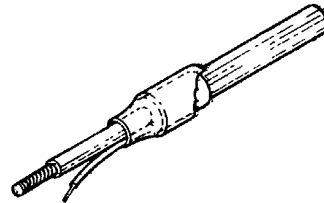
SHIELD FIGURE A

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



SHIELD FIGURE B

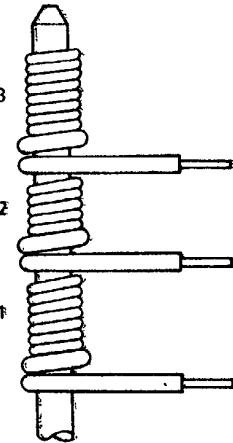
SHIELD TERMINATION FOR SHIELDED,  
SINGLE AND MULTIPLE CONDUCTORS,  
FRONT PIGTAIL IS REQUIRED.



SHIELD FIGURE NO. 3

SHIELD FIGURE NO. 2

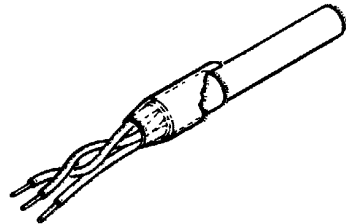
SHIELD FIGURE NO. 1



SHIELD FIGURE NUMBER  
INDICATES LEVEL OF WIRE WR

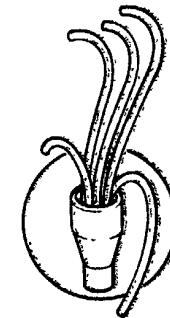
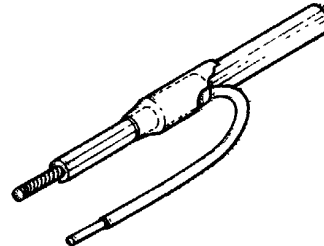
SHIELD FIGURE G

SHIELDED CABLE TERMINATION WITH DRAIN WIRE



SHIELD FIGURE C

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

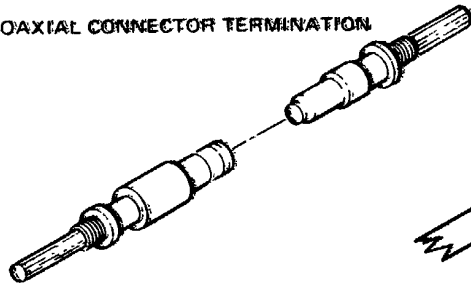


SHIELD FIGURE X

SHIELDED WIRE  
PIGTAILS—HYBRID

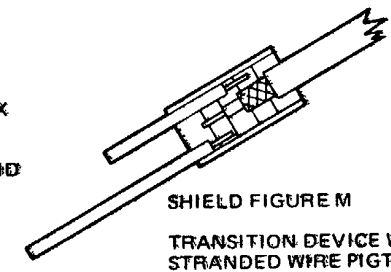
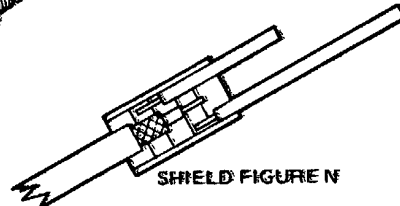
SHIELD FIGURE Z

COAXIAL CONNECTOR TERMINATION



SHIELD FIGURE N

TRANSITION DEVICE WITH  
SOLID WIRE PIGTAILS



SHIELD FIGURE M

TRANSITION DEVICE W  
STRANDED WIRE PIGT/

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

LOGIC UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESC. FACTOR	FACTOR	COMMENT
J2141	THI	F4	34A	HAACMAV	00	=		
J2141	THI	F4	35A	(72 )	01		HAACMSU 74 35A	
J2136	THI	F4	34A	HAACMOV	00	=		
J2136	THI	F4	35A	(72 )	01		HAACMAV 74 35A	
J2139	DBC	C1	18A	HAACMIU	00	=		
J2139	DBC	C1	18B	(38 )	01		HACMC1V1 HACMC2V1 HACMC3V1 HACMC4V1 HAENAS 39 18B 41 19B 43 22B 45 23B 50 24A	
J2139	DBC	C2	19A	HAACMZU	00	=		
J2139	DBC	C2	17B	(40 )	01		HACKMAV 37 17B	
J2139	DBC	C3	20A	HAACMZU	00	=		
J2139	DBC	C3	23A	(42 )	01		SPI037 47 23A	
J2139	DBC	C4	21A	HAACMZU	00	=		
J2139	DBC	C4	22A	(46 )	01		SPI036 48 22A	
J2139	DBC	C5	17A	HAACMSU	00	=		
J2139	DBC	C5	16B	(36 )	01		HAFBAAV 35 16B	
J2139	DBC	D1	26A	HAACMIU	00	=		
J2139	DBC	D1	26B	(54 )	01		HACMC5V1 HACMC6V1 HAGN5OV HAGN6OV HAENAS 53 26B 55 27B 57 29B 59 30B 63 31A	
J2139	DBC	D2	28B	HAACMZU	00	=		
J2139	DBC	D2	25B	(56 )	01		HACKMAV 51 25B	
J2139	DBC	D3	28A	HAACMZU	00	=		
J2139	DBC	D3	31B	(60 )	01		HAACMOV 61 31B	
J2139	DBC	D4	29A	HAACMZU	00	=		
J2139	DBC	D4	30A	(62 )	01		SPI037 64 30A	
J2139	DBC	D5	25A	HAACMSU	00	=		
J2139	DBC	D5	24B	(52 )	01		HAFBAAV 49 24B	

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

LOGIC UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3M2S2

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG. NOTOR	FACTOR	COMMENT
J2141	THI	D1	25A	HAAM1AV	00	=		
J2141	THI	D1	26A	(54)	01		HAACM1U 52 26A	
J2136	THI	D6	26B	HAAM10V	00	=		
J2136	THI	D6	27B	(53)	01		HAAM1AV 51 27B	
J2141	THI	D2	23A	HAAM2AV	00	=		
J2141	THI	D2	24A	(49)	01		HAACM2U 47 24A	
J2136	THI	E1	32A	HAAM20V	00	=		
J2136	THI	E1	33A	(66)	01		HAAM2AV 64 33A	
J2141	THI	D3	21A	HAAM3AV	00	=		
J2141	THI	D3	22A	(48)	01		HAACM3U 50 22A	
J2136	THI	E2	30A	HAAM30V	00	=		
J2136	THI	E2	31A	(63)	01		HAAM3AV 61 31A	
J2141	THI	D4	22B	HAAM4AV	00	=		
J2141	THI	D4	23B	(46)	01		HAACM4U 41 23B	
J2136	THI	E3	28A	HAAM40V	00	=		
J2136	THI	E3	29A	(60)	01		HAAM4AV 62 29A	
J2141	THI	D5	24B	HAAM5AV	00	=		
J2141	THI	D5	25B	(43)	01		HAACN1U 45 25B	
J2136	THI	E4	28B	HAAM50V	00	=		
J2136	THI	E4	29B	(56)	01		HAAM5AV 55 29B	
J2141	THI	D6	26B	HAAM6AV	00	=		
J2141	THI	D6	27B	(53)	01		HAACN2U 51 27B	
J2136	THI	E5	30B	HAAM60V	00	=		
J2136	THI	E5	31B	(57)	01		HAAM6AV 59 31B	



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

LOGIC UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2136	THI	F6	38A	HACKMAV	00	=		
J2136	THI	F6	39A	(77 )	01		HACKMO 75 39A	
J2138	TQ2	F3	35A	HACKMO	00	=		
J2138	TQ2	F3	34B	(69 )	01		HBYBPOV HAEN10V 65 34B 74 35B	
J2142	R05	A1	T01	HACMC1V1	00	=		
J2142	R05	A1		(15 )	01		HBCI0B1 13	
J2142	R05	A2	T02	HACMC2V1	00	=		
J2142	R05	A2		(18 )	01		HBCI1B1 17	
J2142	R05	A3	T03	HACMC3V1	00	=		
J2142	R05	A3		(20 )	01		HBCI2B1 19	
J2142	R05	A4	T04	HACMC4V1	00	=		
J2142	R05	A4		(22 )	01		HBCI3B1 25	
J2142	R05	A5	T05	HACMC5V1	00	=		
J2142	R05	A5		(24 )	01		HBCI4B1 27	
J2142	R05	A6	T06	HACMC6V1	00	=		
J2142	R05	A6		(26 )	01		HBCI5B1 31	
J2142	R05	A7	T07	HACMC7V1	00	=		
J2142	R05	A7		(29 )	01		SPI03B 21	
J2142	R05	A8	T08	HACMC8V1	00	=		
J2142	R05	A8		(34 )	01		SPI03B 23	
J2112	THI	A2	04A	HACP3AV	00	=		
J2112	THI	A2	05A	(08 )	01		HACP30V 06 05A	
J2108	THI	A6	06B	HACP30V	00	=		
J2108	THI	A6	07B	(10 )	01		HBCP3A 15 07B	

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

LOGIC UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	ORIGINATOR	FACTOR	COMMENT
J2134	TQ2	A4	07B	HACMAA	00	=		
J2134	TQ2	A4	05B	(15 )	01		HACMC7V1 HACMC8V1 11 05B 13 06B	
J2136	THI	F5	36A	HACMAOV	00	=		
J2136	THI	F5	37A	(78 )	01		HACMAA 76 37A	
J2108	THI	A1	06A	HADAAAV	00	=		
J2108	THI	A1	07A	(13 )	01		HADAAO 11 07A	
J2106	TQ2	A1	05A	HADAAO	00	=		
J2106	TQ2	A1	06A	(06 )	01		HAIAAA HAG010V 08 06A 10 07A	
J2108	THI	A4	02B	HADABAV	00	=		
J2108	THI	A4	03B	(01 )	01		HADABO 05 03B	
J2106	TQ2	A2	02B	HADABO	00	=		
J2106	TQ2	A2	04A	(01 )	01		HAI01AV HAG020V 04 04A 05 03B	
J2108	THI	A5	04B	HADACAV	00	=		
J2108	THI	A5	05B	(07 )	01		HADACO 09 05B	
J2106	TQ2	A3	04B	HADACO	00	=		
J2106	TQ2	A3	02A	(09 )	01		HAIABA HAG030V 03 02A 07 03A	
J2108	THI	B2	11A	HADADAV	00	=		
J2108	THI	B2	12A	(25 )	01		HADADO 23 12A	
J2109	TQ2	A2	02B	HADADG	00	=		
J2109	TQ2	A2	04A	(01 )	01		HAI02AV HAG040V 04 04A 05 03B	
J2108	THI	B3	09A	HADAEAV	00	=		
J2108	THI	B3	10A	(18 )	01		HADAE0 20 10A	
J2106	TQ2	A4	07B	HADAE0	00	=		
J2106	TQ2	A4	05B	(15 )	01		HAIACA HAG050V 11 05B 13 06B	

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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UNIT ASSEMBLY NO. 10281451  
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TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3

CONNECTOR	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2108	THI B4	08B	HADAFAY	00	=		
J2108	THI B4	09B	{14 }	01		HADAFO 17 09B	
J2109	TQ2 A4	07B	HADAFB	00	=		
J2109	TQ2 A4	05B	{15 }	01		HAIADA HAG060V 11 05B 13 06B	
J2108	THI B5	10B	HADAGAY	00	=		
J2108	THI B5	11B	{19 }	01		HADAGO 21 11B	
J2109	TQ2 B1	12A	HADAGO	00	=		
J2109	TQ2 B1	13A	{22 }	01		HAIAEA HAG070V 24 13A 26 14A	
J2108	THI B6	12B	HADAHAY	00	=		
J2108	THI B6	13B	{26 }	01		HADAHO 27 13B	
J2109	TQ2 B2	09A	HADAHB	00	=		
J2109	TQ2 B2	10A	{14 }	01		HAIABA HAG080V 18 10A 20 11A	
J2108	THI C2	17A	HADATAY	00	=		
J2108	THI C2	18A	{37 }	01		HADAIO 35 18A	
J2109	TQ2 B3	10B	HADAIB	00	=		
J2109	TQ2 B3	08B	{21 }	01		HAI03AV HAG090V 17 08B 19 09B	
J2108	THI C3	15A	HADAJAY	00	=		
J2108	THI C3	16A	{34 }	01		HADAJO 36 16A	
J2106	TQ2 D1	24A	HADAKB	00	=		
J2106	TQ2 D1	25A	{52 }	01		HAI04AV HAG100V 54 25A 56 26A	
J2108	THI C4	14B	HADAKAY	00	=		
J2108	THI C4	15B	{30 }	01		HADAKO 29 15B	
J2106	TQ2 D2	21A	HADAKB	00	=		
J2106	TQ2 D2	22A	{46 }	01		HAI05AV HAG110V 48 22A 50 23A	



DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

LOGIC UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
J2108	THI	D5	24B	HADASAV	00	=		
J2108	THI	D5	25B	(43)	01		HADASO 45 25B	
J2109	TQ2	E2	28A	HADASO	00	=		
J2109	TQ2	E2	29A	(60)	01		HAI AJA HAG180V 62 29A 64 30A	
J2108	THI	D6	26B	HADATAV	00	=		
J2108	THI	D6	27B	(53)	01		HADATO 51 27B	
J2109	TQ2	E3	30B	HADATO	00	=		
J2109	TQ2	E3	28B	(57)	01		HAI AKA HAG190V 53 28B 55 29B	
J2108	THI	E1	32A	HADAUAV	00	=		
J2108	THI	E1	33A	(66)	01		HADAUD 64 33A	
J2109	TQ2	E4	33B	HADAUD	00	=		
J2109	TQ2	E4	31B	(63)	01		HAI ALA HAG200V 59 31B 61 32B	
J2108	THI	F1	38B	HADBAAV	00	=		
J2108	THI	F1	39B	(80)	01		HADBAO 79 39B	
J2106	TQ2	F1	37B	HADBAO	00	=		
J2106	TQ2	F1	38B	(75)	01		HAI O9AV HAG210V 77 38B 79 39B	
J2108	THI	F2	36B	HADBBAV	00	=		
J2108	THI	F2	37B	(71)	01		HADBB0 73 37B	
J2106	TQ2	F2	34A	HADBB0	00	=		
J2106	TQ2	F2	36A	(72)	01		HAI I0AV HAG220V 71 36A 73 36B	
J2108	THI	F3	34B	HADBCAV	00	=		
J2108	THI	F3	35B	(70)	01		HADBC0 69 35B	
J2106	TQ2	F3	35A	HADBC0	00	=		
J2106	TQ2	F3	34B	(69)	01		HAI BAA HAG230V 65 34B 74 35B	

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

LOGIC  
 FILE IDENT TSQ3MTS2

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O. 31S5-2TSQ73-2-3  
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DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

LOGIC

UNIT ASSEMBLY NO. 10281451  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERMINAL	TEST POINT	FACTOR	COMMENT
J2108	THI	F4	34A	HADBDAV	00	=		
J2108	THI	F4	35A	(72 )	01	=	HADBDO 74 35A	
J2109	TQ2	F1	37B	HADBDO	00	=		
J2109	TQ2	F1	38B	(75 )	01	=	HA111A HAG240V 77 38B 79 39B	
J2112	THI	A3	03A	HADBEAV	00	=		
J2112	THI	A3	02A	(03 )	01	=	HADBEO 04 02A	
J2111	TQ2	A1	05A	HADBEO	00	=		
J2111	TQ2	A1	06A	(06 )	01	=	HA188A HAG250V 08 06A 10 07A	
J2112	THI	A4	02B	HADBEAV	00	=		
J2112	THI	A4	03B	(01 )	01	=	HADBFO 05 03B	
J2111	TQ2	A2	02B	HADBEO	00	=		
J2111	TQ2	A2	04A	(01 )	01	=	HA112AV HAG260V 04 04A 05 02B	
J2112	THI	A5	04B	HADBGAV	00	=		
J2112	THI	A5	05B	(07 )	01	=	HADBG0 09 05B	
J2111	TQ2	A3	04B	HADBG0	00	=		
J2111	TQ2	A3	02A	(09 )	01	=	HA1BCA HAG270V 03 02A 07 03A	
J2112	THI	A6	04B	HADBNAV	00	=		
J2112	THI	A6	07B	(10 )	01	=	HADBN0 15 07B	
J2111	TQ2	A4	07B	HADBN0	00	=		
J2111	TQ2	A4	05B	(15 )	01	=	HA113AV HAG280V 11 05B 13 06B	
J2112	THI	B1	13A	HADBTAV	00	=		
J2112	THI	B1	14A	(24 )	01	=	HADBIO 22 14A	
J2111	TQ2	B1	12A	HADBIO	00	=		
J2111	TQ2	B1	13A	(22 )	01	=	HA114A HAG290V 24 13A 26 14A	

DRAWING NUMBER WL10281451  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

LOGIC UNIT ASSEMBLY NO. 10281451  
 FILE IDENT TSQ3MTS2

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CONNECTOR	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
J2112	THI B2	11A	HADB JAV	00	=		
J2112	THI B2	12A	(25 )	01		HADBJO 23 12A	
J2111	TQ2 B2	09A	HADB JO	00	=		
J2111	TQ2 B2	10A	(14 )	01		HAIBDA HAG300V 18 10A 20 11A	
J2112	THI B3	09A	HADBKAV	00	=		
J2112	THI B3	10A	(18 )	01		HADBKO 20 10A	
J2111	TQ2 B3	10B	HADBKO	00	=		
J2111	TQ2 B3	08B	(21 )	01		HAIBEA HAG310V 17 08B 19 09B	
J2112	THI B4	08B	HADBLAV	00	=		
J2112	THI B4	09B	(14 )	01		HADBL0 17 09B	
J2111	TQ2 B4	13B	HADBL0	00	=		
J2111	TQ2 B4	11B	(27 )	01		HAIBFA HAG320V 23 11B 25 12B	
J2112	THI C3	15A	HADBMVAV	00	=		
J2112	THI C3	16A	(34 )	01		HADBMO 36 16A	
J2111	TQ2 C1	18A	HADBMO	00	=		
J2111	TQ2 C1	19A	(38 )	01		HA115A HAG330V 40 19A 42 20A	
J2112	THI C4	14B	HADBNVAV	00	=		
J2112	THI C4	15B	(30 )	01		HADBNO 29 15B	
J2111	TQ2 C2	15A	HADBNO	00	=		
J2111	TQ2 C2	16A	(30 )	01		HAIBGA HAG340V 34 16A 36 17A	
J2112	THI C5	16B	HADBPVAV	00	=		
J2112	THI C5	17B	(31 )	01		HADBP0 33 17B	
J2111	TQ2 C3	16B	HAQBPO	00	=		
J2111	TQ2 C3	14B	(33 )	01		HAIBHA HAG350V 29 14B 31 15B	

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 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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CONNECTOR	GROUP TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM TEST RATIO	FACTOR	COMMENT
J2112	THI	C6	18B	HADBQAV	00 =		
J2112	THI	C6	19B	(42 )	01	HADBQO 39 19B	
J2111	TQ2	C4	17B	HADBQO	00 =		
J2111	TQ2	C4	17B	(39 )	01	HAI16A HAG360V 35 17B 37 18B	
J2112	THI	D1	25A	HADBRVAV	00 =		
J2112	THI	D1	26A	(54 )	01	HADBRO 52 26A	
J2111	TQ2	D1	24A	HADBRO	00 =		
J2111	TQ2	D1	25A	(52 )	01	HAI1BIA HAG370V 54 25A 56 26A	
J2112	THI	D2	23A	HADBSAV	00 =		
J2112	THI	D2	24A	(49 )	01	HADBSO 47 24A	
J2111	TQ2	D2	21A	HADBSO	00 =		
J2111	TQ2	D2	22A	(46 )	01	HAI17AV HAG380V 48 22A 50 23A	
J2112	THI	D3	21A	HADBTAV	00 =		
J2112	THI	D3	22A	(48 )	01	HADBTO 50 22A	
J2111	TQ2	D3	24B	HADBTO	00 =		
J2111	TQ2	D3	22B	(45 )	01	HAI1BJA HAG390V 41 22B 43 23B	
J2112	THI	D4	22B	HADBUAV	00 =		
J2112	THI	D4	23B	(46 )	01	HADBUO 41 23B	
J2111	TQ2	D4	27B	HADBUO	00 =		
J2111	TQ2	D4	25B	(51 )	01	HAI18AV HAG400V 47 25B 49 26B	
J2112	THI	E5	30B	HADBVAV	00 =		
J2112	THI	E5	31B	(57 )	01	HADBVO 59 31B	
J2111	TQ2	E1	31A	HADBVO	00 =		
J2111	TQ2	E1	32A	(66 )	01	HAI19A HAG410V 68 32A 70 33A	



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 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR		EQUATION	TERM	SERIAL FACTOR	FACTOR	COMMENT
J2112	THI	E6	32B		HADBWA	00	=		
J2112	THI	E6	33B		(68 )	01		HADBWO 65 33B	
J2111	TQ2	E2	28A		HADBWO	00	=		
J2111	TQ2	E2	29A		(60 )	01		HAIBKA HAG420V 62 29A 64 30A	
J2112	THI	F1	38B		HADCAAV	00	=		
J2112	THI	F1	39B		(80 )	01		HADCAO 79 39B	
J2111	TQ2	E3	30B		HADCAO	00	=		
J2111	TQ2	E3	28B		(57 )	01		HAICAA HAG430V 53 28B 55 29B	
J2112	THI	F2	36B		HADCBVA	00	=		
J2112	THI	F2	37B		(71 )	01		HADCB0 73 37B	
J2111	TQ2	E4	33B		HADCB0	00	=		
J2111	TQ2	E4	31B		(63 )	01		HAICBA HAG440V 59 31B 61 32B	
J2112	THI	F3	34B		HADCCA	00	=		
J2112	THI	F3	35B		(70 )	01		HADCC0 69 35B	
J2111	TQ2	F1	37B		HADCC0	00	=		
J2111	TQ2	F1	38B		(75 )	01		HAI20AV HAG450V 77 38B 79 39B	
J2112	THI	F4	34A		HADCDVA	00	=		
J2112	THI	F4	35A		(72 )	01		HADCD0 74 35A	
J2111	TQ2	F2	34A		HADCD0	00	=		
J2111	TQ2	F2	36A		(72 )	01		HAICCA HAG460V 71 36A 73 36B	
J2112	THI	F5	36A		HADCEVA	00	=		
J2112	THI	F5	37A		(78 )	01		HADCE0 76 37A	
J2111	TQ2	F3	35A		HADCE0	00	=		
J2111	TQ2	F3	34B		(69 )	01		HAICDA HAG470V 65 34B 74 35B	

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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2112	THI F6	38A	HADCFAY	00	=		
J2112	THI F6	39A	(77 )	01		HADCFQ 75 39A	
J2111	TQ2 F4	39A	HADCFQ	00	=		
J2111	TQ2 F4	37A	(80 )	01		HAI21A HAG480V 76 37A 78 38A	
J2116	THI A1	06A	HADCGAV	00	=		
J2116	THI A1	07A	(13 )	01		HADCGO 11 07A	
J2115	TQ2 A1	05A	HADCGO	00	=		
J2115	TQ2 A1	06A	(06 )	01		HAI21A HAG480V 08 06A 10 07A	
J2116	THI A2	04A	HADCHAV	00	=		
J2116	THI A2	05A	(08 )	01		HADCHO 06 05A	
J2115	TQ2 A2	02B	HADCHO	00	=		
J2115	TQ2 A2	04A	(01 )	01		HAI21A HAG480V 04 04A 05 03B	
J2116	THI A3	03A	HADCIAY	00	=		
J2116	THI A3	02A	(03 )	01		HADCIO 04 02A	
J2115	TQ2 A3	04B	HADCIO	00	=		
J2115	TQ2 A3	02A	(09 )	01		HAI21A HAG480V 03 02A 07 03A	
J2116	THI A4	02B	HADCJAV	00	=		
J2116	THI A4	03B	(01 )	01		HADCJO 05 03B	
J2115	TQ2 A4	07B	HADCJO	00	=		
J2115	TQ2 A4	05B	(15 )	01		HAI22AV HAG520V 11 05B 13 06B	
J2116	THI A5	04B	HADCKAV	00	=		
J2116	THI A5	05B	(07 )	01		HADCKO 09 05B	
J2115	TQ2 B1	12A	HADCKO	00	=		
J2115	TQ2 B1	13A	(22 )	01		HAI23A HAG530V 24 13A 26 14A	

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM DESIGNATOR	FACTOR	COMMENT
J2116	THI	A6	06B	HADCLAV	00 =		
J2116	THI	A6	07B	(10 )	01	HADCL0 15 07B	
J2115	TQ2	B2	09A	HADCL0	00 =		
J2115	TQ2	B2	10A	(14 )	01	HAICHA HAG540V 18 10A 20 11A	
J2116	THI	B1	13A	HADCMAY	00 =		
J2116	THI	B1	14A	(24 )	01	HADCM0 22 14A	
J2115	TQ2	B3	10B	HADCM0	00 =		
J2115	TQ2	B3	08B	(21 )	01	HAICIA HAG550V 17 08B 19 09B	
J2116	THI	B6	12B	HADCMAY	00 =		
J2116	THI	B6	13B	(26 )	01	HADCM0 27 13B	
J2115	TQ2	B4	13B	HADCM0	00 =		
J2115	TQ2	B4	11B	(27 )	01	HAICJA HAG560V 23 11B 25 12B	
J2116	THI	C1	19A	HADCPAV	00 =		
J2116	THI	C1	20A	(40 )	01	HADCP0 38 20A	
J2115	TQ2	C1	18A	HADCP0	00 =		
J2115	TQ2	C1	19A	(38 )	01	HAIC24AV HAG570V 40 19A 42 20A	
J2116	THI	C2	17A	HADCGAV	00 =		
J2116	THI	C2	18A	(37 )	01	HADCG0 35 18A	
J2115	TQ2	C2	15A	HADCG0	00 =		
J2115	TQ2	C2	16A	(30 )	01	HAIC25AV HAG580V 34 16A 36 17A	
J2116	THI	C3	15A	HADCRAV	00 =		
J2116	THI	C3	16A	(34 )	01	HADCR0 36 16A	
J2115	TQ2	C3	16B	HADCR0	00 =		
J2115	TQ2	C3	14B	(33 )	01	HAICKA HAG590V 29 14B 31 15B	



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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM DEFIC. FACTOR	FACTOR	COMMENT
J2116	THI	E5	30B	HADCYAV	00 =		
J2116	THI	E5	31B	(57 )	01	HADCYO 59 31B	
J2115	TQ2	E2	28A	HADCYO	00 =		
J2115	TQ2	E2	29A	(60 )	01	HAICPA HAG660V 62 29A 64 30A	
J2116	THI	E6	32B	HADCZAV	00 =		
J2116	THI	E6	33B	(68 )	01	HADCZO 65 33B	
J2115	TQ2	E3	30B	HADCZO	00 =		
J2115	TQ2	E3	28B	(57 )	01	HAICQA HAG670V 53 28B 55 29B	
J2116	THI	F1	38B	HADDAV	00 =		
J2116	THI	F1	39B	(80 )	01	HADDAO 79 39B	
J2115	TQ2	E4	33B	HADDAO	00 =		
J2115	TQ2	E4	31B	(63 )	01	HAICRA HAG680V 59 31B 61 32B	
J2116	THI	F2	36B	HADDBAV	00 =		
J2116	THI	F2	37B	(71 )	01	HADDBO 73 37B	
J2115	TQ2	F1	37B	HADDBO	00 =		
J2115	TQ2	F1	38B	(75 )	01	HAI29A HAG690V 77 38B 79 39B	
J2116	THI	F3	34B	HADDCAV	00 =		
J2116	THI	F3	35B	(70 )	01	HADDCO 69 35B	
J2115	TQ2	F2	34A	HADDCO	00 =		
J2115	TQ2	F2	36A	(72 )	01	HAI30AV HAG700V 71 36A 73 36B	
J2116	THI	F4	34A	HADDDAV	00 =		
J2116	THI	F4	35A	(72 )	01	HADDDO 74 35A	
J2115	TQ2	F3	35A	HADDDO	00 =		
J2115	TQ2	F3	34B	(69 )	01	HAI31A HAG710V 65 34B 74 35B	

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TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR								COMMENT
J2116	THI	F5	36A	HADDEAV	00	#									
J2116	THI	F5	37A	(78 )	01	.	HADDE0 76 37A								
J2115	TQ2	F4	39A	HADDED	00	=									
J2115	TQ2	F4	37A	(80 )	01	.	HA132AV HAG720V 76 37A 78 38A								
J2124	THI	A1	06A	HADFA0V	00	#									
J2124	THI	A1	07A	(13 )	01	.	HBTE3A 11 07A								
J2124	THI	A2	04A	HADEROV	00	#									
J2124	THI	A2	05A	(08 )	01	.	HBTE3A 06 05A								
J2124	THI	A3	03A	HADFCOV	00	#									
J2124	THI	A3	02A	(03 )	01	.	HBTE3A 06 02A								
				HADM17	00	#									
J2103	EXT			( )	01	.	HAP010	HAP020	HA P03D	HAP04D	HAP05D	HAP06D	HAP07D	HAP08D	
J2103	EXT			( )	02	+	HAP09D	HAP10D	HA P11D	HAP12D	HAP13D	HAP14D	HAP15D	HAP16D	
J2103	EXT			( )	03	+	HAP17D	HAP18D	HA P19D	HAP20D	HAP21D	HAP22D	HAP23D	HAP24D	
J2103	EXT			( )	04	+	HAP25D	HAP26D	HA P27D	HAP28D	HAP29D	HAP30D	HAP31D	HAP32D	
J2103	EXT			( )	05	+	HAP33D	HAP34D	HA P35D	HAP36D	HAP37D	HAP38D	HAP39D	HAP40D	
J2103	EXT			( )	06	+	HAP41D	HAP42D	HA P43D	HAP44D	HAP45D	HAP46D	HAP47D	HAP48D	
J2103	EXT			( )	07	+	HAP49D	HAP50D	HA P51D	HAP52D	HAP53D	HAP54D	HAP55D	HAP56D	
J2103	EXT			( )	08	+	HAP57D	HAP58D	HA P59D	HAP60D	HAP61D	HAP62D	HAP63D	HAP64D	
J2103	EXT			( )	09	+	HAP65D	HAP66D	HA P67D	HAP68D	HAP69D	HAP70D	HAP71D	HAP72D	
				HADM22	00	#									
J2104	EXT			( )	01	.	HAG010V	HAG020V	HA G030V	HAG040V	HAG050V	HAG060V	HAG070V	HAG080V	
J2104	EXT			( )	02	+	HAG090V	HAG100V	HA G110V	HAG120V	HAG130V	HAG140V	HAG150V	HAG160V	
J2104	EXT			( )	03	+	HAG170V	HAG180V	HA G190V	HAG200V	HAG210V	HAG220V	HAG230V	HAG240V	
J2104	EXT			( )	04	+	HAG250V	HAG260V	HA G270V	HAG280V	HAG290V	HAG300V	HAG310V	HAG320V	
J2104	EXT			( )	05	+	HAG330V	HAG340V	HA G350V	HAG360V	HAG370V	HAG380V	HAG390V	HAG400V	

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CONNECTOR	UNIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGN POINT	FACTOR	COMMENT
J2104	EXT			( )	06 +		HAG410V HAG420V HAG430V HAG440V HAG450V HAG460V HAG470V HAG480V 47 48 49 50 51 52 53 54	
J2104	EXT			( )	07 +		HAG490V HAG500V HAG510V HAG520V HAG530V HAG540V HAG550V HAG560V 55 56 57 59 60 61 62 63	
J2104	EXT			( )	08 +		HAG570V HAG580V HAG590V HAG600V HAG610V HAG620V HAG630V HAG640V 64 65 66 68 69 70 71 72	
J2104	EXT			( )	09 +		HAG650V HAG660V HAG670V HAG680V HAG690V HAG700V HAG710V HAG720V 73 74 75 76 77 78 79 80	
J2105	EXT			HADM3Z ( )	00 =		HAH011V1 HAH012V1 HAH013V1 HAH014V1 HAH015V1 HAH016V1 HAH017V1 HAH018V1 01 02 03 04 05 06 07 08	
J2105	EXT			( )	02 +		HAH021V1 HAH022V1 HAH023V1 HAH024V1 HAH025V1 HAH026V1 HAH027V1 HAH028V1 09 10 11 12 13 14 15 16	
J2105	EXT			( )	03 +		HAH031V1 HAH032V1 HAH033V1 HAH034V1 HAH035V1 HAH036V1 HAH037V1 HAH038V1 17 18 19 20 21 22 23 24	
J2105	EXT			( )	04 +		HAH041V1 HAH042V1 HAH043V1 HAH044V1 HAH045V1 HAH046V1 HAH047V1 HAH048V1 25 26 27 28 29 30 31 32	
J2105	EXT			( )	05 +		HAH051V1 HAH052V1 HAH053V1 HAH054V1 HAH055V1 HAH056V1 HAH057V1 HAH058V1 33 34 35 36 37 38 39 40	
J2105	EXT			( )	06 +		HAH061V1 HAH062V1 HAH063V1 HAH064V1 HAH065V1 HAH066V1 HAH067V1 HAH068V1 41 42 43 44 45 46 47 48	
J2105	EXT			( )	07 +		HAH071V1 HAH072V1 HAH073V1 HAH074V1 HAH075V1 HAH076V1 HAH077V1 HAH078V1 49 50 51 52 53 54 55 56	
J2105	EXT			( )	08 +		HAH081V1 HAH082V1 HAH083V1 HAH084V1 HAH085V1 HAH086V1 HAH087V1 HAH088V1 57 58 59 60 61 62 63 64	
J2105	EXT			( )	09 +		HAH091V1 HAH092V1 HAH093V1 HAH094V1 HAH095V1 HAH096V1 HAH097V1 HAH098V1 65 66 67 68 69 70 71 72	
J2105	EXT			( )	10 +		HAH0A1V HAH0A2V HAH0A3V HAH0A4V HAH0A5V 73 74 75 76 77 78	
J2124	THI	A4	02B	HADXAV	00 =			
J2124	THI	A4	03B	(01)	01		SPI031 05 03B	
J2124	THI	A5	04B	HADKZAV	00 =			
J2124	THI	A5	05B	(07)	01		SPI031 09 05B	
J2120	TS4	A1	05B	HAD010E	00 =			
J2120	TS4	A1	03B	(07)	01		HC0000 SPI031 03 03B 05 04B	
J2120	TS4	A2	07B	HAD011E	00 =			
J2120	TS4	A2	02B	(11)	01		HC0010 HADKZAV 01 02B 08 04A	
J2120	TS4	A3	07A	HAD012E	00 =			
J2120	TS4	A3	02A	(13)	01		HC0020 SPI030 04 02A 14 06A	

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CONNECTOR	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG. RATIO	FACTOR	COMMENT
J2120	TS4 A4	05A	HAD013E	00	*		
J2120	TS4 A4	03A	(10 )	01		HCD030 HADEBOV 06 03A 09 06B	
J2120	TS4 B1	11B	HAD020E	00	*		
J2120	TS4 B1	09B	(21 )	01		HCD040 SPI031 17 09B 19 10B	
J2120	TS4 B2	13B	HAD021E	00	*		
J2120	TS4 B2	08B	(27 )	01		HCD050 HADXZAV 15 08B 22 11A	
J2120	TS4 B3	14A	HAD022E	00	*		
J2120	TS4 B3	09A	(25 )	01		HCD060 SPI030 18 09A 26 13A	
J2120	TS4 B4	12A	HAD023E	00	*		
J2120	TS4 B4	10A	(24 )	01		HCD070 HADEBOV 20 10A 23 12B	
J2120	TS4 C1	17B	HAD030E	00	*		
J2120	TS4 C1	15B	(35 )	01		HCD080 SPI031 31 15B 33 16B	
J2120	TS4 C2	19B	HAD031E	00	*		
J2120	TS4 C2	14B	(39 )	01		HCD090 HADXZAV 29 14B 36 17A	
J2120	TS4 C3	20A	HAD032E	00	*		
J2120	TS4 C3	15A	(42 )	01		HCD100 SPI030 30 15A 40 19A	
J2120	TS4 C4	18A	HAD033E	00	*		
J2120	TS4 C4	16A	(38 )	01		HCD110 HADEBOV 34 16A 37 18B	
J2120	TS4 D1	25B	HAD040E	00	*		
J2120	TS4 D1	23B	(47 )	01		HCD120 SPI031 43 23B 45 24B	
J2120	TS4 D2	27B	HAD041E	00	*		
J2120	TS4 D2	22B	(51 )	01		HCD130 HADXZAV 41 22B 50 23A	
J2120	TS4 D3	26A	HAD042E	00	*		
J2120	TS4 D3	21A	(56 )	01		HCD140 SPI030 46 21A 54 35A	



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CONNECTOR	TEST POINT GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2120	TS4	D4	24A	HAD043E	00	=	
J2120	TS4	D4	22A	(152 )	01		HCD150 HADEBOV 48 22A 49 26B
J2120	TS4	E1	31B	HAD050E	00	=	
J2120	TS4	E1	29B	(161 )	01		HCD160 SPI031 55 29B 59 30B
J2120	TS4	E2	33B	HAD051E	00	=	
J2120	TS4	E2	28B	(165 )	01		HCD170 HADXZAV 53 28B 62 30A
J2120	TS4	E3	33A	HAD052E	00	=	
J2120	TS4	E3	28A	(168 )	01		HCD180 SPI030 57 28A 66 32A
J2120	TS4	E4	31A	HAD053E	00	=	
J2120	TS4	E4	29A	(164 )	01		HCD190 HADEBOV 60 29A 63 32B
J2120	TS4	F1	37B	HAD060E	00	=	
J2120	TS4	F1	35B	(175 )	01		HCD200 SPI031 71 35B 73 36B
J2120	TS4	F2	39B	HAD061E	00	=	
J2120	TS4	F2	34B	(179 )	01		HCD210 HADXZAV 69 34B 74 36A
J2120	TS4	F3	39A	HAD062E	00	=	
J2120	TS4	F3	34A	(180 )	01		HCD220 SPI030 70 34A 78 38A
J2120	TS4	F4	37A	HAD063E	00	=	
J2120	TS4	F4	35A	(176 )	01		HCD230 HADEBOV 72 35A 77 38B
J2119	TS4	A1	05B	HAD070E	00	=	
J2119	TS4	A1	03B	(107 )	01		HCD240 SPI028 03 03B 05 04B
J2119	TS4	A2	07B	HAD071E	00	=	
J2119	TS4	A2	02B	(111 )	01		HCD250 HADXZAV 01 02B 08 04A
J2119	TS4	A3	07A	HAD072E	00	=	
J2119	TS4	A3	02A	(113 )	01		HCD260 SPI030 04 02A 14 06A

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAD073E  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 24

CONNECTOR	UNIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG- NATION	FACTOR	COMMENT
J2119	TS4	A4	05A	HAD073E	00	=		
J2119	TS4	A4	03A	(10 )	01		HCD270 HADECOV 06 03A 09 06B	
J2119	TS4	B1	11B	HAD080E	00	=		
J2119	TS4	B1	09B	(21 )	01		HCD280 SPI028 17 09B 19 10B	
J2119	TS4	B2	13B	HAD081E	00	=		
J2119	TS4	B2	08B	(27 )	01		HCD290 HADXZAV 15 08B 22 11A	
J2119	TS4	B3	14A	HAD082E	00	=		
J2119	TS4	B3	09A	(25 )	01		HCD300 SPI030 18 09A 26 13A	
J2119	TS4	B4	12A	HAD083E	00	=		
J2119	TS4	B4	10A	(24 )	01		HCD310 HADECOV 20 10A 23 12B	
J2119	TS4	C1	17B	HAD090E	00	=		
J2119	TS4	C1	15B	(35 )	01		HCD320 SPI031 31 15B 33 16B	
J2119	TS4	C2	19B	HAD093E	00	=		
J2119	TS4	C2	14B	(39 )	01		HCD330 HADXZAV 29 14B 36 17A	
J2119	TS4	C3	20A	HAD092E	00	=		
J2119	TS4	C3	15A	(42 )	01		HCD340 SPI030 30 15A 40 19A	
J2119	TS4	C4	18A	HAD093E	00	=		
J2119	TS4	C4	16A	(38 )	01		HCD350 HADECOV 34 16A 37 18B	
J2118	TS4	A1	05B	HAD100E	00	=		
J2118	TS4	A1	03B	(07 )	01		HCD360 SPI028 03 03B 05 04B	
J2118	TS4	A2	07B	HAD103E	00	=		
J2118	TS4	A2	02B	(11 )	01		HCD370 HADXYAV 01 02B 03 04A	
J2118	TS4	A3	07A	HAD102E	00	=		
J2118	TS4	A3	02A	(13 )	01		HCD380 SPI027 04 02A 14 06A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAD103E  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 25

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DEFINITION	FACTOR	COMMENT
J2118	TS4	A4	05A	HAD103E	00	=		
J2118	TS4	A4	05A	(10 )	01		HCD390 HADEAOV 06 03A 09 06B	
J2118	TS4	B1	11B	HAD110E	00	=		
J2118	TS4	B1	09B	(21 )	01		HCD400 SPI028 17 09B 19 10B	
J2118	TS4	B2	13B	HAD111E	00	=		
J2118	TS4	B2	08B	(27 )	01		HCD410 HADXYAV 15 08B 22 11A	
J2118	TS4	B3	14A	HAD112E	00	=		
J2118	TS4	B3	09A	(25 )	01		HCD420 SPI027 18 09A 26 13A	
J2118	TS4	B4	12A	HAD113E	00	=		
J2118	TS4	B4	10A	(24 )	01		HCD430 HADEAOV 20 10A 23 12B	
J2118	TS4	C1	17B	HAD120E	00	=		
J2118	TS4	C1	15B	(35 )	01		HCD440 SPI028 31 15B 33 16B	
J2118	TS4	C2	19B	HAD121E	00	=		
J2118	TS4	C2	14B	(39 )	01		HCD450 HADXYAV 29 14B 36 17A	
J2118	TS4	C3	20A	HAD122E	00	=		
J2118	TS4	C3	15A	(42 )	01		HCD460 SPI027 30 15A 40 19A	
J2118	TS4	C4	18A	HAD123E	00	=		
J2118	TS4	C4	16A	(38 )	01		HCD470 HADEAOV 36 16A 37 18B	
J2118	TS4	D1	25B	HAD130E	00	=		
J2118	TS4	D1	23B	(47 )	01		HCD480 SPI028 43 23B 45 24B	
J2118	TS4	D2	27B	HAD131E	00	=		
J2118	TS4	D2	22B	(51 )	01		HCD490 HADXYAV 41 22B 50 23A	
J2118	TS4	D3	26A	HAD132E	00	=		
J2118	TS4	D3	21A	(56 )	01		HCD500 SPI027 46 21A 54 25A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAD133E  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 26

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND DR	EQUATION	TERM	DESIG- NATOR	FACTOR	COMMENT
J2118	TS4	D4	24A	HAD133E	00	#		
J2118	TS4	D4	22A	(52 )	01		HCD510 HADEAOV 48 22A 49 26B	
J2118	TS4	E1	31B	HAD140E	00	#		
J2118	TS4	E1	29B	(61 )	01		HCD520 SPI028 55 29B 59 30B	
J2118	TS4	E2	33B	HAD141E	00	#		
J2118	TS4	E2	28B	(65 )	01		HCD530 HADXYAV 53 28B 62 30A	
J2118	TS4	E3	33A	HAD142E	00	#		
J2118	TS4	E3	28A	(68 )	01		HCD540 SPI027 57 28A 66 32A	
J2118	TS4	E4	31A	HAD143E	00	#		
J2118	TS4	E4	29A	(64 )	01		HCD550 HADEAOV 60 29A 63 32B	
J2118	TS4	F1	37B	HAD150E	00	#		
J2118	TS4	F1	35B	(75 )	01		HCD560 SPI028 71 35B 72 34B	
J2118	TS4	F2	39B	HAD151E	00	#		
J2118	TS4	F2	34B	(79 )	01		HCD570 HADXYAV 69 34B 74 36A	
J2118	TS4	F3	39A	HAD152E	00	#		
J2118	TS4	F3	34A	(80 )	01		HCD580 SPI027 70 34A 78 38A	
J2118	TS4	F4	37A	HAD153E	00	#		
J2118	TS4	F4	35A	(76 )	01		HCD590 HADEAOV 72 35A 77 38B	
J2119	TS4	D1	25B	HAD160E	00	#		
J2119	TS4	D1	23B	(47 )	01		HCD600 SPI031 43 23B 45 24B	
J2119	TS4	D2	27B	HAD161E	00	#		
J2119	TS4	D2	22B	(51 )	01		HCD610 HADXYAV 41 22B 50 23A	
J2119	TS4	D3	26A	HAD162E	00	#		
J2119	TS4	D3	21A	(56 )	01		HCD620 SPI030 46 21A 54 25A	



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAECMOV  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 28

CONNECTOR	GROUP	TEST POINTS AND OR	EQUATION	TERM	TERMINATOR	FACTOR	COMMENT
J2136	THI D3	21A	HAECMOV	00	#		
J2136	THI D3	22A	(48 )	01		HAMGCOT 50 22A	ENA CKT MASK PROMS
J2135	TD4 F2	35A	HAENAR	00	#		
J2135	TD4 F2	36A	(69 )	01		HAENAS HAFBAAV HAFTCP SPI035 71 36A 72 34A 73 36B 74 35B	
J2134	TQ2 E4	33B	HAENAS	00	#		
J2134	TQ2 E4	31B	(63 )	01		HBTE3A HAENAR 59 31B 61 32B	IC CKT CTR ENA
J2135	TD4 E1	31B	HAENDO	00	#		
J2135	TD4 E1	32B	(59 )	01		HAE1CA HAE2CA HAE3CA HAE4CA 61 32B 66 31A 68 32A 70 33A	
J2138	TQ2 E1	37B	HAENER	00	#		
J2138	TQ2 F1	38B	(75 )	01		HAENES HAENAS 77 38B 79 39B	
J2135	TD4 E1	37A	HAENES	00	#		
J2135	TD4 F1	37B	(76 )	01		HAE5CA HAE6DA HAE6CA HAENER 75 37B 77 38B 78 38A 79 39B	
J2141	THI B4	08B	HAENRAV	00	#		
J2141	THI B4	09B	(14 )	01		HAENRO 17 09B	
J2143	TQ2 E1	31A	HAENRO	00	#		
J2143	TQ2 E1	32A	(66 )	01		HAENAS HAE5CA 68 32A 70 33A	
J2135	TD4 B1	11B	HAEN1A	00	#		
J2135	TD4 B1	12A	(23 )	01		HARM20V HAETIP HAET3P SPI032 22 12A 24 13A 25 13B 26 14A	
J2141	THI E1	32A	HAEN10V	00	#		
J2141	THI E1	33A	(66 )	01		HAEN1A 64 33A	CT1
J2143	TQ2 B2	09A	HAEN2A	00	#		
J2143	TQ2 B2	10A	(14 )	01		HAET1Q HAET2P 18 10A 20 11A	
J2141	THI E2	30A	HAEN20V	00	#		
J2141	THI E2	31A	(63 )	01		HAEN2A 61 31A	CT2

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAEN3A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 29

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM.	DESIGNATOR	FACTOR	COMMENT
J2143	TQ2	B3	10B	HAEN3A	00	=		
J2143	TQ2	B3	08B	(21 )	01		HAET2Q HAET3P 17 08B 19 09B	
J2141	THI	E3	28A	HAEN30V	00	=		
J2141	THI	E3	29A	(60 )	01		HAEN3A 62 29A	CT3
J2143	TQ2	B4	13B	HAEN4A	00	=		
J2143	TQ2	B4	11B	(27 )	01		HAET1Q HAET3Q 23 11B 25 12B	
J2141	THI	E4	28B	HAEN40V	00	=		
J2141	THI	E4	29B	(56 )	01		HAEN4A 55 29B	CT4
J2143	TQ2	C1	18A	HAEN5A	00	=		
J2143	TQ2	C1	19A	(38 )	01		HAET2Q HAET1P 40 19A 42 20A	
J2141	THI	E5	30B	HAEN50V	00	=		
J2141	THI	E5	31B	(57 )	01		HAEN5A 59 31B	CT5
J2143	TQ2	C2	15A	HAEN6A	00	=		
J2143	TQ2	C2	16A	(30 )	01		HAET3Q HAET2P 34 16A 36 17A	
J2141	THI	E6	32B	HAEN60V	00	=		
J2141	THI	E6	33B	(68 )	01		HAEN6A 65 33B	CT6
J2143	TQ2	E2	28A	HAETCA	00	=		
J2143	TQ2	E2	29A	(60 )	01		HBHAI0V HAENAS 62 29A 64 30A	
J2144	TDD	AI	06A	HAET1I ( )	00 01	=	HAET30V 08 06A	
J2144	TDD	AN	07A	HAET1N ( )	00 01	=	HAETCA 10 07A	
J2144	TDD	AP	05B	HAET1P (11 )	00 01	=	HAENRAY 06 05A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAETIQ  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 30

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
J2144	TDD AQ	06B	HAET10	00 =				
J2144	TDD AQ	07B	(13)	01		SPI046 15 07B		
J2141	THI C2	17A	HAET10V	00 =				
J2141	THI C2	18A	(37)	01		HAET1P 35 18A		
J2144	TDD BI	03B	HAET2T	00 =				
			( )	01		HAET10V 05 03B		
J2144	TDD BN	02B	HAET2N	00 =				
			( )	01		HAETCA 01 02B		
J2144	TDD BP	04B	HAET2P	00 =				
J2144	TDD BP	04A	(09)	01		HAENRAV 04 04A		
J2144	TDD BQ	02A	HAET2Q	00 =				
J2144	TDD BQ	02A	(07)	01		SPI047 03 02A		
J2141	THI C3	15A	HAET20V	00 =				
J2141	THI C3	16A	(34)	01		HAET2P 36 16A		
J2144	TDD CI	13A	HAET3T	00 =				
			( )	01		HAET20V 26 13A		
J2144	TDD CN	14A	HAET3N	00 =				
			( )	01		HAETCA 26 14A		
J2144	TDD CP	11B	HAET3P	00 =				
J2144	TDD CP	12A	(23)	01		HAENRAV 22 12A		
J2144	TDD CQ	12B	HAET3Q	00 =				
J2144	TDD CQ	13B	(25)	01		SPI048 27 13B		
J2141	THI C4	14B	HAET30V	00 =				
J2141	THI C4	15B	(30)	01		HAET3Q 29 15B		



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAET4I  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 31

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	TEST POINT	FACTOR	COMMENT
J2144	TDD	DI	10A	HAET4I ( )	00 =	01	HAET50V 18 10A	
J2144	TDD	DN	09A	HAET4N ( )	00 =	01	HAET30V 14 09A	
J2144	TDD	DP	10B	HAET4P (21 )	00 =	01	HAENAS 20 11A	
J2144	TDD	DQ	09B	HAET4Q (19 )	00 =	01	SPI047 17 08B	
J2141	THI	C5	16B	HAET40V (31 )	00 =	01	HAET4P 33 17B	
J2144	TDD	EI	19A	HAET5I ( )	00 =	01	HAET40V 40 19A	
J2144	TDD	EN	20A	HAET5N ( )	00 =	01	HAET30V 42 20A	
J2144	TDD	EP	17B	HAET5P (35 )	00 =	01	HAENAS 38 18A	
J2144	TDD	EQ	18B	HAET5Q (37 )	00 =	01	SPI048 39 19B	
J2141	THI	C6	18B	HAET50V (42 )	00 =	01	HAET5Q 39 19B	
J2117	TT3	E1	30A	HAET1CA (64 )	00 =	01	HBKB15V1 HAET4P HAET5P 66 31A 68 32A 70 33A	
J2117	TT3	E2	29B	HAET2CA (55 )	00 =	01	HBKB16V1 HAET4Q HAET5P 53 28B 60 28A 62 29A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAE3CA  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 32

CONNECTOR	OFFSET	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
			AND	OR					
J2117	TT3	E3	32B		HAE3CA	00	#		
J2117	TT3	E3	30B		(63 )	01		H8KB17V1 HAET4Q HAET5Q 57 30B 59 31B 61 32B	
J2117	TT3	E1	36B		HAE6CA	00	#		
J2117	TT3	F1	37B		(73 )	01		H8KB18V1 HAET4P HAET5Q 75 37B 77 38B 79 39B	
J2117	TT3	F2	35B		HAE5CA	00	#		
J2117	TT3	F2	34B		(74 )	01		HA5CC0V HAEN50V HBHAHS 65 34B 71 36A 72 34A	
J2117	TT3	F3	39A		HAE6CA	00	#		
J2117	TT3	F3	35A		(80 )	01		HAENDO HBHAHS HAEN60V 69 35A 76 37A 78 38A	
J2136	THI	E6	32B		HAERAAV	00	#		(RST-1)*
J2136	THI	E6	33B		(68 )	01		H8FBEO 65 33B	
J2136	THI	F1	38B		HAERBAV	00	#		(RST-2)*
J2136	THI	F1	39B		(80 )	01		H8FBEO 79 39B	
					HAETBI	00	#		
J2144	TDD	HI	22A		( )	01		HAFTCQV 48 22A	
					HAETRN	00	#		
J2144	TDD	HN	21A		( )	01		HBT4C0V 46 21A	
J2144	TDD	HP	24B		HAETBP	00	#		
J2144	TDD	HP	23A		(45 )	01		SPI041 50 23A	
J2144	TDD	HQ	23B		HAETBQ	00	#		
J2144	TDD	HQ	22B		(43 )	01		SPI042 41 22B	
					HAETCI	00	#		
J2144	TDD	FI	16A		( )	01		HAENES 3A 16A	
					HAETCN	00	#		
J2144	TDD	FN	15A		( )	01		HBT4C0V 30 15A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAFTCP  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 33

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
J2144	TDD	FP	16B	HAFTCP	00	=		
J2144	TDD	FP	17A	{33 }	01		SPI047 36 17A	
J2144	TDD	FQ	15B	HAFTCO	00	=		
J2144	TDD	FQ	14B	{31 }	01		SPI038 29 14B	FUNCTION TEST COMP
J2112	THI	E4	28B	HAFTCOV	00	=		
J2112	THI	E4	29B	{56 }	01		HAFTCP 55 29B	
J2124	THI	B6	12B	HAGAAAV	00	=		
J2124	THI	B6	13B	{26 }	01		HAEN1A 27 13B	
J2124	THI	C1	19A	HAGABAV	00	=		
J2124	THI	C1	20A	{40 }	01		HAEN1A 38 20A	
J2131	TQ2	D2	21A	HAGACA	00	=		
J2131	TQ2	D2	22A	{46 }	01		HAEN10V HA5CCOV 48 22A 50 23A	
J2131	TQ2	D3	24B	HAGADA	00	=		
J2131	TQ2	D3	22B	{45 }	01		HAEN20V HA6CCO 41 22B 43 23B	
J2117	TT3	B1	11A	HAGAFD	00	=		
J2117	TT3	B1	12A	{20 }	01		HAGACA HAGADA HAMGC3T 22 12A 24 13A 26 14A	
J2131	TQ2	D1	24A	HAGAFD	00	=		
J2131	TQ2	D1	25A	{52 }	01		HAMGC3T HAEN2A 54 25A 56 26A	
J2131	TQ2	D4	27B	HAGAGO	00	=		
J2131	TQ2	D4	25B	{51 }	01		HAEN2A HA1CCAV 47 25B 49 26B	
J2134	TQ2	A2	02B	HAGAHA	00	=		
J2134	TQ2	A2	04A	{01 }	01		HAEN20V HA5CCOV 04 04A 05 03B	
J2134	TQ2	A3	04B	HAGATA	00	=		
J2134	TQ2	A3	02A	{09 }	01		HAEN30V HA6CCO 03 02A 07 03A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGAJO  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 34

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2117	TT3	B2	09B	HAGAJO	00	#		
J2117	TT3	B2	09A	(19 )	01		HAGAMA HAGAIA HAICCAV 14 09A 17 08B 18 10A	
J2138	TQ2	E1	31A	HAGAKO	00	#		
J2138	TQ2	E1	32A	(66 )	01		HAICCAV HAEN3A 68 32A 70 33A	CTS - BOMAN
J2134	TQ2	E2	28A	HAGALA	00	#		
J2134	TQ2	E2	29A	(60 )	01		HAEN30V HA5CC0V 62 29A 64 30A	
J2134	TQ2	E3	30B	HAGAMA	00	#		
J2134	TQ2	E3	28B	(57 )	01		HAEN40V HA6CC0 53 28B 55 29B	
J2117	TT3	B3	13B	HAGANO	00	#		
J2117	TT3	B3	10B	(27 )	01		HAGALA HAGAMA HAMGC3T 21 10B 23 11B 25 12B	
J2134	TQ2	E1	31A	HAGAPO	00	#		
J2134	TQ2	E1	32A	(66 )	01		HAMGC3T HAEN4A 68 32A 70 33A	
J2143	TQ2	E4	33B	HAGAQA	00	#		
J2143	TQ2	E4	31B	(63 )	01		HAEN50V HA6CC0 59 31B 61 32B	
J2138	TQ2	E2	28A	HAGARA	00	#		
J2138	TQ2	E2	29A	(60 )	01		HAEN40V HA5CC0V 62 29A 64 30A	
J2135	TD4	A1	05B	HAGASO	00	#		
J2135	TD4	A1	05A	(11 )	01		SPI032 HAICCAV HAGAQA HAGARA 06 05A 08 06A 10 07A 13 06B	
J2134	TQ2	F1	37B	HAGATO	00	#		
J2134	TQ2	F1	38B	(75 )	01		HAEN5A HAMGC3T 77 38B 79 39B	
J2134	TQ2	F2	36A	HAGAUA	00	#		
J2134	TQ2	F2	36A	(72 )	01		HAEN50V HA5CC0V 71 36A 73 36B	
J2134	TQ2	F3	35A	HAGAVA	00	#		
J2134	TQ2	F3	34B	(69 )	01		HAEN60V HA6CC0 65 34B 74 35B	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGAWO  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 35

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
J2135	TD4	C1	17B	HAGAWO	00	=		
J2135	TD4	C1	18B	(35 )	01		HAGAWA HAGAVA HAMGC3T SPI032 37 18B 38 18A 40 19A 42 20A	
J2135	TD4	C2	16B	HAGAXO	00	=		
J2135	TD4	C2	15A	(33 )	01		HAGAWA HAGAVA HAMGC3T SPI032 30 15A 31 15B 34 16A 36 17A	(G75 51G) (G76 61G) ALL
J2138	TQ2	E3	30B	HAGAYO	00	=		
J2138	TQ2	E3	28B	(57 )	01		HAEN6A HAICCAV 53 28B 55 29B	
J2130	R05	A1	T01	HAGA11V1	00	=		
J2130	R05	A1		(15 )	01		HAAM10V 13	
J2130	R05	A2	T02	HAGA12V1	00	=		
J2130	R05	A2		(18 )	01		HAAM20V 17	
J2130	R05	A3	T03	HAGA13V1	00	=		
J2130	R05	A3		(20 )	01		HAAM30V 19	
J2130	R05	A4	T04	HAGA14V1	00	=		
J2130	R05	A4		(22 )	01		HAAM40V 25	
J2130	R05	A5	T05	HAGA15V1	00	=		
J2130	R05	A5		(24 )	01		HAAM50V 27	
J2130	R05	A6	T06	HAGA16V1	00	=		
J2130	R05	A6		(26 )	01		HAAM60V 31	
J2130	R05	A7	T07	HAGA17V1	00	=		
J2130	R05	A7		(29 )	01		HAECMOV 21	
J2130	R05	A8	T08	HAGA18V1	00	=		
J2130	R05	A8		(34 )	01		HAECMOV 23	
J2130	R05	B1	T09	HAGA21V1	00	=		
J2130	R05	B1		(38 )	01		HAAM10V 37	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGA22V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 36

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2130	R05	B2	T10	HAGA22V1	00	#		
J2130	R05	B2		(40 )	01		HAAM20V 39	
J2130	R05	B3	T11	HAGA23V1	00	#		
J2130	R05	B3		(42 )	01		HAAM30V 41	
J2130	R05	B4	T12	HAGA24V1	00	#		
J2130	R05	B4		(46 )	01		HAAM40V 49	
J2130	R05	B5	T13	HAGA25V1	00	#		
J2130	R05	B5		(48 )	01		HAAM50V 51	
J2130	R05	B6	T14	HAGA26V1	00	#		
J2130	R05	B6		(50 )	01		HAAM60V 53	
J2130	R05	B7	T15	HAGA27V1	00	#		
J2130	R05	B7		(52 )	01		HAECMOV 45	
J2130	R05	B8	T16	HAGA28V1	00	#		
J2130	R05	B8		(54 )	01		HAECMOV 47	
J2130	R05	C1	T17	HAGA31V1	00	#		
J2130	R05	C1		(62 )	01		HAAM10V 60	
J2130	R05	C2	T18	HAGA32V1	00	#		
J2130	R05	C2		(64 )	01		HAAM20V 59	
J2130	R05	C3	T19	HAGA33V1	00	#		
J2130	R05	C3		(66 )	01		HAAM30V 61	
J2130	R05	C4	T20	HAGA34V1	00	#		
J2130	R05	C4		(68 )	01		HAAM40V 69	
J2130	R05	C5	T20	HAGA35V1	00	#		
J2130	R05	C5		(70 )	01		HAAM50V 71	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGA36V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 37

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	TEST POINT	FACTOR	COMMENT
J2130	R05	C6	T22	HAGA36V1	00	=		
J2130	R05	C6		( 72 )	01		HAAM60V 73	
J2130	R05	C7	T23	HAGA37V1	00	=		
J2130	R05	C7		( 74 )	01		HAECMOV 63	
J2130	R05	C8	T24	HAGA38V1	00	=		
J2130	R05	C8		( 76 )	01		HAECMOV 65	
J2133	R05	A1	T01	HAGA41V1	00	=		
J2133	R05	A1		( 15 )	01		HAAM10V 13	
J2133	R05	A2	T02	HAGA42V1	00	=		
J2133	R05	A2		( 18 )	01		HAAM20V 17	
J2133	R05	A3	T03	HAGA43V1	00	=		
J2133	R05	A3		( 20 )	01		HAAM30V 19	
J2133	R05	A4	T04	HAGA44V1	00	=		
J2133	R05	A4		( 22 )	01		HAAM40V 25	
J2133	R05	A5	T05	HAGA45V1	00	=		
J2133	R05	A5		( 24 )	01		HAAM50V 27	
J2133	R05	A6	T06	HAGA46V1	00	=		
J2133	R05	A6		( 26 )	01		HAAM60V 31	
J2133	R05	A7	T07	HAGA47V1	00	=		
J2133	R05	A7		( 29 )	01		HAECMOV 21	
J2133	R05	A8	T08	HAGA48V1	00	=		
J2133	R05	A8		( 34 )	01		HAECMOV 23	
J2133	R05	B1	T09	HAGA51V1	00	=		
J2133	R05	B1		( 38 )	01		HAAM10V 37	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGA52V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 38

CONNECTOR	GROUP	TEST POINTS AND OR	EQUATION	TERM	ORIGINATOR	FACTOR	COMMENT
J2133	R05 B2	T10	HAGA52V1	00	#		
J2133	R05 B2		(40 )	01		HAAM20V 39	
J2133	R05 B3	T11	HAGA53V1	00	#		
J2133	R05 B3		(42 )	01		HAAM30V 41	
J2133	R05 B4	T12	HAGA54V1	00	#		
J2133	R05 B4		(46 )	01		HAAM40V 49	
J2133	R05 B5	T13	HAGA55V1	00	#		
J2133	R05 B5		(48 )	01		HAAM50V 51	
J2133	R05 B6	T14	HAGA56V1	00	#		
J2133	R05 B6		(50 )	01		HAAM60V 53	
J2133	R05 B7	T15	HAGA57V1	00	#		
J2133	R05 B7		(52 )	01		HAECMOV 45	
J2133	R05 B8	T16	HAGA58V1	00	#		
J2133	R05 B8		(54 )	01		HAECMOV 47	
J2133	R05 C1	T17	HAGA61V1	00	#		
J2133	R05 C1		(62 )	01		HAAM10V 60	
J2133	R05 C2	T18	HAGA62V1	00	#		
J2133	R05 C2		(64 )	01		HAAM20V 59	
J2133	R05 C3	T19	HAGA63V1	00	#		
J2133	R05 C3		(66 )	01		HAAM30V 61	
J2133	R05 C4	T21	HAGA64V1	00	#		
J2133	R05 C4		(68 )	01		HAAM40V 69	
J2133	R05 C5	T20	HAGA65V1	00	#		
J2133	R05 C5		(70 )	01		HAAM50V 71	



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGA66V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 39

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2133	R05	C6	T22	HAGA66V1	00	=		
J2133	R05	C6		(72 )	01		HAAM60V 72	
J2133	R05	C7	T23	HAGA67V1	00	=		
J2133	R05	C7		(74 )	01		HAECMOV 63	
J2133	R05	C8	T24	HAGA68V1	00	=		
J2133	R05	C8		(76 )	01		HAECMOV 65	
J2137	R05	A1	T01	HAGA71V1	00	=		
J2137	R05	A1		(15 )	01		HAAM10V 13	
J2137	R05	A2	T02	HAGA72V1	00	=		
J2137	R05	A2		(18 )	01		HAAM20V 17	
J2137	R05	A3	T03	HAGA73V1	00	=		
J2137	R05	A3		(20 )	01		HAAM30V 19	
J2137	R05	A4	T04	HAGA74V1	00	=		
J2137	R05	A4		(22 )	01		HAAM40V 25	
J2137	R05	A5	T05	HAGA75V1	00	=		
J2137	R05	A5		(24 )	01		HAAM50V 27	
J2137	R05	A6	T06	HAGA76V1	00	=		
J2137	R05	A6		(26 )	01		HAAM60V 31	
J2137	R05	A7	T07	HAGA77V1	00	=		
J2137	R05	A7		(29 )	01		HAECMOV 21	
J2137	R05	A8	T08	HAGA78V1	00	=		
J2137	R05	A8		(34 )	01		HAECMOV 23	
J2137	R05	B1	T09	HAGA81V1	00	=		
J2137	R05	B1		(38 )	01		HAAM10V 37	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGA82V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 40

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2137	R05	B2	T10	HAGA82V1	00	#		
J2137	R05	B2		(40 )	01		HAAM20V 39	
J2137	R05	B3	T11	HAGA83V1	00	#		
J2137	R05	B3		(42 )	01		HAAM30V 41	
J2137	R05	B4	T12	HAGA84V1	00	#		
J2137	R05	B4		(46 )	01		HAAM40V 49	
J2137	R05	B5	T13	HAGA85V1	00	#		
J2137	R05	B5		(48 )	01		HAAM50V 51	
J2137	R05	B6	T14	HAGA86V1	00	#		
J2137	R05	B6		(50 )	01		HAAM60V 53	
J2137	R05	B7	T15	HAGA87V1	00	#		
J2137	R05	B7		(52 )	01		HAECMOV 45	
J2137	R05	B8	T16	HAGA88V1	00	#		
J2137	R05	B8		(54 )	01		HAECMOV 47	
J2137	R05	C1	T17	HAGA91V1	00	#		
J2137	R05	C1		(62 )	01		HAAM10V 60	
J2137	R05	C2	T18	HAGA92V1	00	#		
J2137	R05	C2		(64 )	01		HAAM20V 59	
J2137	R05	C3	T19	HAGA93V1	00	#		
J2137	R05	C3		(66 )	01		HAAM30V 61	
J2137	R05	C4	T21	HAGA96V1	00	#		
J2137	R05	C4		(68 )	01		HAAM40V 69	
J2137	R05	C5	T20	HAGA95V1	00	#		
J2137	R05	C5		(70 )	01		HAAM50V 71	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAGA96V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 41

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM DESIGNATION	FACTOR	COMMENT
J2137	R05	C6	T22	HAGA96V1	00 =		
J2137	R05	C6		(72 )	01	HAAM60V 73	
J2137	R05	C7	T23	HAGA97V1	00 =		
J2137	R05	C7		(74 )	01	HAECMOV 63	
J2137	R05	C8	T24	HAGA98V1	00 =		
J2137	R05	C8		(76 )	01	HAECMOV 65	
J2106	TQ2	D4	27B	HAGM1A	00 =		
J2106	TQ2	D4	25B	(51 )	01	HBWAKA HAG610V 47 25B 49 26B	
J2109	TQ2	C2	15A	HAGM2A	00 =		
J2109	TQ2	C2	16A	(30 )	01	HBWAKA HAG650V 34 16A 36 17A	
J2109	TQ2	C4	19B	HAGM3A	00 =		
J2109	TQ2	C4	17B	(39 )	01	HBWAKA HAG660V 35 17B 37 18B	
J2116	THI	F6	38A	HAGM30V	00 =		
J2116	THI	F6	39A	(77 )	01	HAGM3A 75 39A	
J2109	TQ2	D4	27B	HAGM4A	00 =		
J2109	TQ2	D4	25B	(51 )	01	HBWAKA HAG720V 47 25B 49 26B	
J2141	THI	F1	38B	HAGN50V	00 =		PULL DOWN
J2141	THI	F1	39B	(80 )	01	SPI037 79 39B	
J2141	THI	F2	36B	HAGN60V	00 =		
J2141	THI	F2	37B	(71 )	01	SPI037 73 37B	
J2126	TQ2	A1	05A	HAG01A	00 =		
J2126	TQ2	A1	06A	(06 )	01	HAGA11V1 HAGAAV 08 06A 10 07A	
J2124	THI	C2	17A	HAG010V	00 =		
J2124	THI	C2	18A	(37 )	01	HAG01A 35 18A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG02A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 42

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG. PREFIX	FACTOR	COMMENT
J2126	TQ2	A2	02B	HAG02A	00	#		
J2126	TQ2	A2	04A	(01)	01		HAGA12V1 HAGAAV 04 04A 05 03B	
J2126	THI	C3	15A	HAG020V	00	#		
J2124	THI	C3	16A	(34)	01		HAG02A 36 16A	
J2126	TQ2	A3	04B	HAG03A	00	#		
J2126	TQ2	A3	02A	(09)	01		HAGA13V1 HAGAAV 02 02A 07 03A	
J2126	THI	C4	14B	HAG030V	00	#		
J2124	THI	C4	15B	(30)	01		HAG03A 29 15B	
J2126	TQ2	A4	07B	HAG04A	00	#		
J2126	TQ2	A4	05B	(15)	01		HAGA14V1 HAGAAV 11 05B 13 06B	
J2126	THI	C5	16B	HAG040V	00	#		
J2124	THI	C5	17B	(31)	01		HAG04A 33 17B	
J2126	TQ2	B1	12A	HAG05A	00	#		
J2126	TQ2	B1	13A	(22)	01		HAGA15V1 HAGABAV 24 13A 26 14A	
J2126	THI	C6	18B	HAG050V	00	#		
J2124	THI	C6	19B	(42)	01		HAG05A 39 19B	
J2126	TQ2	B2	09A	HAG06A	00	#		
J2126	TQ2	B2	10A	(14)	01		HAGA16V1 HAGABAV 18 10A 20 11A	
J2126	THI	D1	25A	HAG060V	00	#		
J2124	THI	D1	26A	(54)	01		HAG06A 52 26A	
J2126	TQ2	B3	10B	HAG07A	00	#		
J2126	TQ2	B3	08B	(21)	01		HAGA17V1 HAGABAV 17 08B 19 09B	
J2126	THI	D2	23A	HAG070V	00	#		
J2124	THI	D2	24A	(49)	01		HAG07A 47 24A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG08A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 43

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2126	TQ2	B4	13B	HAG08A	00	=		
J2126	TQ2	B4	11B	( 27 )	01		HAGA18V1 HAGABAV 23 11B 25 12B	
J2124	THI	D3	21A	HAG080V	00	=		
J2124	THI	D3	22A	( 48 )	01		HAG08A 50 22A	
J2126	TQ2	C1	18A	HAG09A	00	=		
J2126	TQ2	C1	19A	( 38 )	01		HAGA21V1 HAEN10V 40 19A 42 20A	
J2124	THI	D4	22B	HAG090V	00	=		
J2124	THI	D4	23B	( 46 )	01		HAG09A 41 23B	
J2126	TQ2	C2	15A	HAG10A	00	=		
J2126	TQ2	C2	16A	( 30 )	01		HAGA22V1 HAEN10V 34 16A 36 17A	
J2124	THI	D5	24B	HAG100V	00	=		
J2124	THI	D5	25B	( 43 )	01		HAG10A 45 25B	
J2126	TQ2	C3	16B	HAG11A	00	=		
J2126	TQ2	C3	14B	( 33 )	01		HAGA23V1 HAEN10V 29 14B 31 15B	
J2124	THI	D6	26B	HAG110V	00	=		
J2124	THI	D6	27B	( 53 )	01		HAG11A 51 27B	
J2126	TQ2	C4	19B	HAG12A	00	=		
J2126	TQ2	C4	17B	( 39 )	01		HAGA24V1 HAEN10V 35 17B 37 18B	
J2124	THI	E1	32A	HAG120V	00	=		
J2124	THI	E1	33A	( 66 )	01		HAG12A 64 33A	
J2126	TQ2	D1	24A	HAG13A	00	=		
J2126	TQ2	D1	25A	( 52 )	01		HAGA25V1 HAGAGO 54 25A 56 26A	
J2124	THI	E2	30A	HAG130V	00	=		
J2124	THI	E2	31A	( 63 )	01		HAG13A 61 31A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG14A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 44

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM DESIGNATOR	FACTOR	COMMENT
J2126	TQ2	D2	21A	HAG14A	00		
J2126	TQ2	D2	22A	(46 )	01	HAGA26VI HAGAGO 48 22A 50 23A	
J2124	THI	E3	28A	HAG140V	00		
J2124	THI	E3	29A	(60 )	01	HAG14A 62 29A	
J2126	TQ2	D3	24B	HAG15A	00		
J2126	TQ2	D3	22B	(45 )	01	HAGA27VI HAGAF0 41 22B 43 23B	
J2124	THI	E4	28B	HAG150V	00		
J2124	THI	E4	29B	(56 )	01	HAG15A 55 29B	
J2126	TQ2	D4	27B	HAG16A	00		
J2126	TQ2	D4	25B	(51 )	01	HAGA28VI HAGAF0 47 25B 49 26B	
J2124	THI	E5	30B	HAG160V	00		
J2124	THI	E5	31B	(57 )	01	HAG16A 59 31B	
J2126	TQ2	E1	31A	HAG17A	00		
J2126	TQ2	E1	32A	(66 )	01	HAGA31VI HAGAGO 68 32A 70 33A	
J2124	THI	E6	32B	HAG170V	00		
J2124	THI	E6	33B	(68 )	01	HAG17A 65 33B	
J2126	TQ2	E2	28A	HAG18A	00		
J2126	TQ2	E2	29A	(60 )	01	HAGA32VI HAGAE0 62 29A 64 30A	
J2124	THI	F1	38B	HAG180V	00		
J2124	THI	F1	39B	(80 )	01	HAG18A 79 39B	
J2126	TQ2	E3	30B	HAG19A	00		
J2126	TQ2	E3	28B	(57 )	01	HAGA33VI HAGAE0 53 28B 55 29B	
J2124	THI	F2	36B	HAG190V	00		
J2124	THI	F2	37B	(71 )	01	HAG19A 73 37B	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG20A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 45

CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM DESIGNATION	FACTOR	COMMENT
J2126	TQ2	E4 33B	HAG20A	00 =		
J2126	TQ2	E4 31B	(63 )	01	HAGA34V1 HAGAGO 59 31B 61 32B	
J2124	THI	F3 34B	HAG200V	00 =		
J2124	THI	F3 35B	(70 )	01	HAG20A 69 35B	
J2126	TQ2	F1 37B	HAG21A	00 =		
J2126	TQ2	F1 38B	(75 )	01	HAGA35V1 HAGAGO 77 38B 79 39B	
J2124	THI	F4 34A	HAG210V	00 =		
J2124	THI	F4 35A	(72 )	01	HAG21A 74 35A	
J2126	TQ2	F2 34A	HAG22A	00 =		
J2126	TQ2	F2 36A	(72 )	01	HAGA36V1 HAGAGO 71 36A 73 36B	
J2124	THI	F5 36A	HAG220V	00 =		
J2124	THI	F5 37A	(78 )	01	HAG22A 76 37A	
J2126	TQ2	F3 35A	HAG23A	00 =		
J2126	TQ2	F3 34B	(69 )	01	HAGA37V1 HAGAGO 65 34B 74 35B	
J2124	THI	F6 38A	HAG230V	00 =		
J2124	THI	F6 39A	(77 )	01	HAG23A 75 39A	
J2126	TQ2	F4 39A	HAG24A	00 =		
J2126	TQ2	F4 37A	(80 )	01	HAGA38V1 HAGAGO 76 37A 78 38A	
J2128	THI	F6 38A	HAG240V	00 =		
J2128	THI	F6 39A	(77 )	01	HAG24A 75 39A	
J2131	TQ2	A1 05A	HAG25A	00 =		
J2131	TQ2	A1 06A	(06 )	01	HAGA41V1 HAGAKO 08 06A 10 07A	
J2128	THI	B1 13A	HAG250V	00 =		
J2128	THI	B1 14A	(24 )	01	HAG25A 22 14A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG26A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 46

CONNECTOR	TEST POINT	GROUP	TEST POINTS AND OR	EQUATION	TERM	TEST POINT	FACTOR	COMMENT
J2131	TQ2	A2	02B	HAG26A	00			
J2131	TQ2	A2	04A	(01 )	01		HAGA42V1 HAGAKO 04 04A 05 03B	
J2128	THI	B2	11A	HAG260V	00			
J2128	THI	B2	12A	(25 )	01		HAG26A 23 12A	
J2131	TQ2	A3	04B	HAG27A	00			
J2131	TQ2	A3	02A	(09 )	01		HAGA43V1 HAGAKO 03 02A 07 03A	
J2128	THI	B3	09A	HAG270V	00			
J2128	THI	B3	10A	(18 )	01		HAG27A 20 10A	
J2131	TQ2	A4	07B	HAG28A	00			
J2131	TQ2	A4	05B	(15 )	01		HAGA44V1 HAGAKO 11 05B 13 04B	
J2128	THI	B4	08B	HAG280V	00			
J2128	THI	B4	09B	(14 )	01		HAG28A 17 09B	
J2131	TQ2	B1	12A	HAG29A	00			
J2131	TQ2	B1	13A	(22 )	01		HAGA45V1 HAGAJO 24 13A 26 14A	
J2128	THI	B5	10B	HAG290V	00			
J2128	THI	B5	11B	(19 )	01		HAG29A 21 11B	
J2131	TQ2	B2	09A	HAG30A	00			
J2131	TQ2	B2	10A	(14 )	01		HAGA46V1 HAGAJO 18 10A 20 11A	
J2128	THI	B6	12B	HAG300V	00			
J2128	THI	B6	13B	(26 )	01		HAG30A 27 13B	
J2131	TQ2	B3	10B	HAG31A	00			
J2131	TQ2	B3	08B	(21 )	01		HAGA47V1 HAGAJO 17 08B 19 09B	
J2128	THI	C1	19A	HAG310V	00			
J2128	THI	C1	20A	(40 )	01		HAG31A 38 20A	



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG32A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 47

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2131	TQ2	B4	13B	HAG32A	00	=		
J2131	TQ2	B4	11B	(27 )	01		HAGA48V1 HAGAJ0 23 11B 25 12B	
J2128	THI	C2	17A	HAG320V	00	=		
J2128	THI	C2	18A	(37 )	01		HAG32A 35 18A	
J2134	TQ2	B1	12A	HAG33A	00	=		
J2134	TQ2	B1	13A	(22 )	01		HAGA51V1 HAGAKO 24 13A 26 16A	
J2128	THI	C3	15A	HAG330V	00	=		
J2128	THI	C3	16A	(34 )	01		HAG33A 36 16A	
J2134	TQ2	B2	09A	HAG34A	00	=		
J2134	TQ2	B2	10A	(14 )	01		HAGA52V1 HAGAKO 18 10A 20 11A	
J2128	THI	C4	14B	HAG340V	00	=		
J2128	THI	C4	15B	(30 )	01		HAG34A 29 15B	
J2134	TQ2	B3	10B	HAG35A	00	=		
J2134	TQ2	B3	08B	(21 )	01		HAGA53V1 HAGAKO 17 08B 19 09B	
J2128	THI	C5	16B	HAG350V	00	=		
J2128	THI	C5	17B	(31 )	01		HAG35A 33 17B	
J2134	TQ2	B4	13B	HAG36A	00	=		
J2134	TQ2	B4	11B	(27 )	01		HAGA54V1 HAGAKO 23 11B 25 12B	
J2128	THI	C6	18B	HAG360V	00	=		
J2128	THI	C6	19B	(42 )	01		HAG36A 39 19B	
J2131	TQ2	C1	18A	HAG37A	00	=		
J2131	TQ2	C1	19A	(38 )	01		HAGA55V1 HAGAPO 40 19A 42 20A	
J2128	THI	D1	25A	HAG370V	00	=		
J2128	THI	D1	26A	(54 )	01		HAG37A 52 26A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/E154 MTS/T.O.31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG38A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 48

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM.	DESIGNATOR	FACTOR	COMMENT
J2131	TQ2	C2	15A	HAG38A	00	#		
J2131	TQ2	C2	16A	(30)	01		HAGA56V1 HAGAP0 34 16A 36 17A	
J2128	THI	D2	23A	HAG380V	00	=		
J2128	THI	D2	24A	(49)	01		HAG38A 47 24A	
J2131	TQ2	C3	16B	HAG39A	00	#		
J2131	TQ2	C3	14B	(33)	01		HAGA57V1 HAGANO 29 14B 31 15B	
J2128	THI	D3	21A	HAG390V	00	=		
J2128	THI	D3	22A	(48)	01		HAG39A 50 22A	
J2131	TQ2	C4	19B	HAG40A	00	#		
J2131	TQ2	C4	17B	(39)	01		HAGA58V1 HAGANO 35 17B 37 18B	
J2128	THI	D4	22B	HAG400V	00	=		
J2128	THI	D4	23B	(46)	01		HAG40A 41 23B	
J2131	TQ2	E1	31A	HAG41A	00	#		
J2131	TQ2	E1	32A	(66)	01		HAGA61V1 HAGANO 68 32A 70 33A	
J2128	THI	D5	24B	HAG410V	00	=		
J2128	THI	D5	25B	(43)	01		HAG41A 45 25B	
J2131	TQ2	E2	28A	HAG42A	00	#		
J2131	TQ2	E2	29A	(60)	01		HAGA62V1 HAGANO 62 29A 64 30A	
J2128	THI	D6	26B	HAG420V	00	=		
J2128	THI	D6	27B	(53)	01		HAG42A 51 27B	
J2131	TQ2	E3	30B	HAG43A	00	#		
J2131	TQ2	E3	28B	(57)	01		HAGA63V1 HAGANO 53 28B 55 29B	
J2128	THI	E1	32A	HAG430V	00	=		
J2128	THI	E1	33A	(66)	01		HAG43A 64 33A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG44A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 49

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2131	TQ2	E4	33B	HAG44A	00	=		
J2131	TQ2	E4	31B	(63 )	01		HAGA64V1 HAGANO 59 31B 61 32B	
J2128	THI	E2	30A	HAG440V	00	=		
J2128	THI	E2	31A	(63 )	01		HAG44A 61 31A	
J2131	TQ2	F1	37B	HAG45A	00	=		
J2131	TQ2	F1	38B	(75 )	01		HAGA65V1 HAGAPO 77 38B 79 39B	
J2128	THI	E3	28A	HAG450V	00	=		
J2128	THI	E3	29A	(60 )	01		HAG45A 62 29A	
J2131	TQ2	F2	34A	HAG46A	00	=		
J2131	TQ2	F2	36A	(72 )	01		HAGA66V1 HAGAPO 71 36A 73 36B	
J2128	THI	E4	28B	HAG460V	00	=		
J2128	THI	E4	29B	(56 )	01		HAG46A 55 29B	
J2131	TQ2	F3	35A	HAG47A	00	=		
J2131	TQ2	F3	34B	(69 )	01		HAGA67V1 HAGAPO 65 34B 74 35B	
J2128	THI	E5	30B	HAG470V	00	=		
J2128	THI	E5	31B	(57 )	01		HAG47A 59 31B	
J2131	TQ2	F4	39A	HAG48A	00	=		
J2131	TQ2	F4	37A	(80 )	01		HAGA68V1 HAGAPO 76 37A 78 38A	
J2128	THI	E6	32B	HAG480V	00	=		
J2128	THI	E6	33B	(68 )	01		HAG48A 65 33B	
J2138	TQ2	A1	05A	HAG49A	00	=		
J2138	TQ2	A1	06A	(06 )	01		HAGATO HAG471V1 08 06A 10 07A	
J2128	THI	F1	38B	HAG490V	00	=		
J2128	THI	F1	39B	(80 )	01		HAG49A 79 39B	

DRAWING NUMBER WL10281451 LOGIC  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG50A  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 50

CONNECTOR	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
J2138	TQ2	A2 02B	HAG50A	00			
J2138	TQ2	A2 04A	(01)	01		HAGAT0 HAG72V1 04 04A 05 03B	
J2128	THI	F2 36B	HAG500V	00			
J2128	THI	F2 37B	(71)	01		HAG50A 73 37B	
J2138	TQ2	A3 04B	HAG51A	00			
J2138	TQ2	A3 02A	(09)	01		HAGAS0 HAG73V1 03 02A 07 03A	
J2128	THI	F3 34B	HAG510V	00			
J2128	THI	F3 35B	(70)	01		HAG51A 69 35B	
J2138	TQ2	A4 07B	HAG52A	00			
J2138	TQ2	A4 05B	(15)	01		HAGAS0 HAG74V1 11 05B 13 06B	
J2128	THI	F4 34A	HAG520V	00			
J2128	THI	F4 35A	(72)	01		HAG52A 74 35A	
J2138	TQ2	B1 12A	HAG53A	00			
J2138	TQ2	B1 13A	(22)	01		HAGA75V1 HAGAS0 24 13A 26 14A	
J2128	THI	F5 36A	HAG530V	00			
J2128	THI	F5 37A	(78)	01		HAG53A 76 37A	
J2138	TQ2	B2 09A	HAG54A	00			
J2138	TQ2	B2 10A	(14)	01		HAGA76V1 HAGAS0 18 10A 20 11A	
J2136	THI	A1 06A	HAG540V	00			
J2136	THI	A1 07A	(13)	01		HAG54A 11 07A	
J2138	TQ2	B3 10B	HAG55A	00			
J2138	TQ2	B3 08B	(21)	01		HAGA77V1 HAGAS0 17 08B 19 09B	
J2136	THI	A2 04A	HAG550V	00			
J2136	THI	A2 05A	(08)	01		HAG55A 06 05A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

REV E INDEX HAG56A  
DATE 09-01-82 PAGE 51

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2138	TQ2	B4	13B	HAG56A	00	=		
J2138	TQ2	B4	11B	(27 )	01		HAGA78V1 HAGASO 23 11B 25 12B	
J2136	THI	A3	03A	HAG560V	00	=		
J2136	THI	A3	02A	(03 )	01		HAG56A 04 02A	
J2138	TQ2	C1	18A	HAG57A	00	=		
J2138	TQ2	C1	19A	(38 )	01		HAGA81V1 HAGASO 40 19A 42 20A	
J2136	THI	A4	02B	HAG570V	00	=		
J2136	THI	A4	03B	(01 )	01		HAG57A 05 03B	
J2138	TQ2	C2	15A	HAG58A	00	=		
J2138	TQ2	C2	16A	(30 )	01		HAGA82V1 HAGASO 34 16A 36 17A	
J2136	THI	A5	04B	HAG580V	00	=		
J2136	THI	A5	05B	(07 )	01		HAG58A 09 05B	
J2138	TQ2	C3	16B	HAG59A	00	=		
J2138	TQ2	C3	14B	(33 )	01		HAGA83V1 HAGATO 29 14B 31 15B	
J2136	THI	A6	06B	HAG590V	00	=		
J2136	THI	A6	07B	(10 )	01		HAG59A 15 07B	
J2138	TQ2	C4	19B	HAG60A	00	=		
J2138	TQ2	C4	17B	(39 )	01		HAGA84V1 HAGATO 35 17B 37 18B	
J2136	THI	B1	13A	HAG600V	00	=		
J2136	THI	B1	14A	(24 )	01		HAG60A 22 14A	
J2134	TQ2	F4	39A	HAG61A	00	=		
J2134	TQ2	F4	37A	(80 )	01		HAGA85V1 HAGAYO 76 37A 78 38A	
J2136	THI	B2	11A	HAG610V	00	=		
J2136	THI	B2	12A	(25 )	01		HAG61A 23 12A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG62A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 52

CONNECTOR	UNIT CAGE	GROUP	TEST POINTS AND OR	EQUATION	TERM	ORIGIN	FACTOR	COMMENT
J2138	TQ2	D2	21A	HAG62A	00	=		
J2138	TQ2	D2	22A	(46 )	01		HAGA86V1 HAGAWO 48 22A 50 23A	
J2136	THI	B3	09A	HAG620V	00	=		
J2136	THI	B3	10A	(18 )	01		HAG62A 20 10A	
J2138	TQ2	D3	24B	HAG63A	00	=		
J2138	TQ2	D3	22B	(45 )	01		HAGA87V1 HAGAWO 41 22B 43 23B	
J2136	THI	B4	08B	HAG630V	00	=		
J2136	THI	B4	09B	(14 )	01		HAG63A 17 09B	
J2138	TQ2	D4	27B	HAG64A	00	=		
J2138	TQ2	D4	25B	(51 )	01		HAGA88V1 HAGAWO 47 25B 49 26B	
J2136	THI	B5	10B	HAG640V	00	=		
J2136	THI	B5	11B	(19 )	01		HAG64A 21 11B	
J2134	TQ2	C1	18A	HAG65A	00	=		
J2134	TQ2	C1	19A	(38 )	01		HAGA91V1 HAGAXO 40 19A 42 20A	
J2136	THI	B6	12B	HAG650V	00	=		
J2136	THI	B6	13B	(26 )	01		HAG65A 27 13B	
J2134	TQ2	C2	15A	HAG66A	00	=		
J2134	TQ2	C2	16A	(30 )	01		HAGA92V1 HAGAXO 34 16A 36 17A	
J2136	THI	C1	19A	HAG660V	00	=		
J2136	THI	C1	20A	(40 )	01		HAG66A 38 20A	
J2134	TQ2	C3	16B	HAG67A	00	=		
J2134	TQ2	C3	14B	(33 )	01		HAGA93V1 HAGAXO 29 14B 31 15B	
J2136	THI	C2	17A	HAG670V	00	=		
J2136	THI	C2	18A	(37 )	01		HAG67A 35 18A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAG68A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 53

CONNECTOR	ENCLOSURE TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
J2134	TQ2	C4	19B	HAG68A	00 =			
J2134	TQ2	C4	17B	(39 )	01		HAGA94V1 HAGAXO 35 17B 37 18B	
J2136	THI	C3	15A	HAG680V	00 =			
J2136	THI	C3	16A	(34 )	01		HAG68A 36 16A	
J2134	TQ2	D1	24A	HAG69A	00 =			
J2134	TQ2	D1	25A	(52 )	01		HAGA95V1 HAGAXO 54 25A 56 26A	
J2136	THI	C4	14B	HAG690V	00 =			
J2136	THI	C4	15B	(30 )	01		HAG69A 29 15B	
J2134	TQ2	D2	21A	HAG70A	00 =			
J2134	TQ2	D2	22A	(46 )	01		HAGA96V1 HAGAXO 48 22A 50 23A	
J2136	THI	C5	16B	HAG700V	00 =			
J2136	THI	C5	17B	(31 )	01		HAG70A 33 17B	
J2134	TQ2	D3	24B	HAG71A	00 =			
J2134	TQ2	D3	22B	(45 )	01		HAGA97V1 HAGAWO 41 22B 43 23B	
J2136	THI	C6	18B	HAG710V	00 =			
J2136	THI	C6	19B	(42 )	01		HAG71A 39 19B	
J2134	TQ2	D4	27B	HAG72A	00 =			
J2134	TQ2	D4	25B	(51 )	01		HAGA98V1 HAGAYO 47 25B 49 26B	
J2136	THI	D1	25A	HAG720V	00 =			
J2136	THI	D1	26A	(54 )	01		HAG72A 52 26A	
J2128	THI	A1	06A	HAGA0AV	00 =			
J2128	THI	A1	07A	(13 )	01		HBC10B1 11 07A	
J2124	THI	A6	06B	HAGA00V	00 =			
J2124	THI	A6	07B	(10 )	01		HAGA0AV 15 07B	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAHA1AV  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 54

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM DESIGNATION	FACTOR	COMMENT
J2128	THI	A2	04A	HAHA1AV	00		
J2128	THI	A2	05A	(08 )	01	HBCI1B1 06 05A	
J2124	THI	B1	13A	HAHA10V	00		
J2124	THI	B1	14A	(24 )	01	HAHA1AV 22 14A	
J2128	THI	A3	03A	HAHA2AV	00		
J2128	THI	A3	02A	(03 )	01	HBCI2B1 04 02A	
J2124	THI	B2	11A	HAHA20V	00		
J2124	THI	B2	12A	(25 )	01	HAHA2AV 23 12A	
J2128	THI	A4	02B	HAHA3AV	00		
J2128	THI	A4	03B	(01 )	01	HBCI3B1 05 03B	
J2124	THI	B3	09A	HAHA30V	00		
J2124	THI	B3	10A	(18 )	01	HAHA3AV 20 10A	
J2128	THI	A5	04B	HAHA4AV	00		
J2128	THI	A5	05B	(07 )	01	HBCI4B1 09 05B	
J2124	THI	B4	08B	HAHA40V	00		
J2124	THI	B4	09B	(14 )	01	HAHA4AV 17 09B	
J2128	THI	A6	06B	HAHA5AV	00		
J2128	THI	A6	07B	(10 )	01	HBCI5B1 15 07B	
J2124	THI	B5	10B	HAHA50V	00		
J2124	THI	B5	11B	(19 )	01	HAHA5AV 21 11B	
J2121	R05	A1	T01	HAHA011V1	00		
J2121	R05	A1		(15 )	01	HAHA00V 13	
J2121	R05	A2	T02	HAHA012V1	00		
J2121	R05	A2		(18 )	01	HAHA10V 17	



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAH013V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 55

CONNECTOR	GROUP	TEST POINTS AND OR	EQUATION	TERM	REG. RATOR	FACTOR	COMMENT
J2121	R05	A3 T03	HAH013V1	00	=		
J2121	R05	A3	(20 )	01		HAHA20V 19	
J2121	R05	A4 T04	HAH014V1	00	=		
J2121	R05	A4	(22 )	01		HAHA30V 25	
J2121	R05	A5 T05	HAH015V1	00	=		
J2121	R05	A5	(24 )	01		HAHA40V 27	
J2121	R05	A6 T06	HAH016V1	00	=		
J2121	R05	A6	(26 )	01		HAHA50V 31	
J2121	R05	A7 T07	HAH017V1	00	=		
J2121	R05	A7	(29 )	01		HARM40V 21	
J2121	R05	A8 T08	HAH018V1	00	=		
J2121	R05	A8	(34 )	01		HARM40V 23	
J2121	R05	B1 T09	HAH021V1	00	=		
J2121	R05	B1	(38 )	01		HAHA00V 37	
J2121	R05	B2 T10	HAH022V1	00	=		
J2121	R05	B2	(40 )	01		HAHA10V 39	
J2121	R05	B3 T11	HAH023V1	00	=		
J2121	R05	B3	(42 )	01		HAHA20V 41	
J2121	R05	B4 T12	HAH024V1	00	=		
J2121	R05	B4	(46 )	01		HAHA30V 49	
J2121	R05	B5 T13	HAH025V1	00	=		
J2121	R05	B5	(48 )	01		HAHA40V 51	
J2121	R05	B6 T14	HAH026V1	00	=		
J2121	R05	B6	(50 )	01		HAHA50V 53	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAH027V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 56

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
J2121	R05	B7	T15	HAH027V1	00	=		
J2121	R05	B7		(52 )	01		HARM40V 45	
J2121	R05	B8	T16	HAH028V1	00	=		
J2121	R05	B8		(54 )	01		HARM40V 47	
J2121	R05	C1	T17	HAH031V1	00	=		
J2121	R05	C1		(62 )	01		HAMA00V 60	
J2121	R05	C2	T18	HAH032V1	00	=		
J2121	R05	C2		(64 )	01		HAMA10V 59	
J2121	R05	C3	T19	HAH033V1	00	=		
J2121	R05	C3		(66 )	01		HAMA20V 61	
J2121	R05	C4	T21	HAH034V1	00	=		
J2121	R05	C4		(68 )	01		HAMA30V 69	
J2121	R05	C5	T20	HAH035V1	00	=		
J2121	R05	C5		(70 )	01		HAMA40V 71	
J2121	R05	C6	T22	HAH036V1	00	=		
J2121	R05	C6		(72 )	01		HAMA50V 73	
J2121	R05	C7	T23	HAH037V1	00	=		
J2121	R05	C7		(74 )	01		HARM40V 63	
J2121	R05	C8	T24	HAH038V1	00	=		
J2121	R05	C8		(76 )	01		HARM40V 65	
J2122	R05	A1	T01	HAH041V1	00	=		
J2122	R05	A1		(15 )	01		HAMA00V 13	
J2122	R05	A2	T02	HAH042V1	00	=		
J2122	R05	A2		(18 )	01		HAMA10V 17	



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAH057V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 58

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
J2122	R05	A3	T03	HAH043V1	00	=		
J2122	R05	A3		(20 )	01		HAHA20V 19	
J2122	R05	A4	T04	HAH044V1	00	=		
J2122	R05	A4		(22 )	01		HAHA30V 25	
J2122	R05	A5	T05	HAH045V1	00	=		
J2122	R05	A5		(24 )	01		HAHA40V 27	
J2122	R05	A6	T06	HAH046V1	00	=		
J2122	R05	A6		(26 )	01		HAHA50V 31	
J2122	R05	A7	T07	HAH047V1	00	=		
J2122	R05	A7		(29 )	01		HARM40V 21	
J2122	R05	A8	T08	HAH048V1	00	=		
J2122	R05	A8		(34 )	01		HARM40V 23	
J2122	R05	B1	T09	HAH051V1	00	=		
J2122	R05	B1		(38 )	01		HAHA00V 37	
J2122	R05	B2	T10	HAH052V1	00	=		
J2122	R05	B2		(40 )	01		HAHA10V 39	
J2122	R05	B3	T11	HAH053V1	00	=		
J2122	R05	B3		(42 )	01		HAHA20V 41	
J2122	R05	B4	T12	HAH054V1	00	=		
J2122	R05	B4		(46 )	01		HAHA30V 49	
J2122	R05	B5	T13	HAH055V1	00	=		
J2122	R05	B5		(48 )	01		HAHA40V 51	
J2122	R05	B6	Y14	HAH056V1	00	=		
J2122	R05	B6		(50 )	01		HAHA50V 53	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAH073V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 59

CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	REG. PATION	FACTOR	COMMENT
J2123	R05 A3	T03	HAH073V1	00	=		
J2123	R05 A3		(20 )	01		HAMA20V 19	
J2123	R05 A4	T04	HAH074V1	00	=		
J2123	R05 A4		(22 )	01		HAMA30V 25	
J2123	R05 A5	T05	HAH075V1	00	=		
J2123	R05 A5		(24 )	01		HAMA40V 27	
J2123	R05 A6	T06	HAH076V1	00	=		
J2123	R05 A6		(26 )	01		HAMA50V 31	
J2123	R05 A7	T07	HAH077V1	00	=		
J2123	R05 A7		(29 )	01		HARM50V 21	
J2123	R05 A8	T08	HAH078V1	00	=		
J2123	R05 A8		(34 )	01		HARM50V 23	
J2123	R05 B1	T09	HAH081V1	00	=		
J2123	R05 B1		(38 )	01		HAMA00V 37	
J2123	R05 B2	T10	HAH082V1	00	=		
J2123	R05 B2		(40 )	01		HAMA10V 39	
J2123	R05 B3	T11	HAH083V1	00	=		
J2123	R05 B3		(42 )	01		HAMA20V 41	
J2123	R05 B4	T12	HAH084V1	00	=		
J2123	R05 B4		(46 )	01		HAMA30V 49	
J2123	R05 B5	T13	HAH085V1	00	=		
J2123	R05 B5		(48 )	01		HAMA40V 51	
J2123	R05 B6	T14	HAH086V1	00	=		
J2123	R05 B6		(50 )	01		HAMA50V 53	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAH087V1  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 60

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	TEST POINT	FACTOR	COMMENT
J2123	R05	B7	T15	HAH087V1	00	=		
J2123	R05	B7		(52 )	01		HARM50V 45	
J2123	R05	B8	T16	HAH088V1	00	=		
J2123	R05	B8		(54 )	01		HARM50V 47	
J2123	R05	C1	T17	HAH091V1	00	=		
J2123	R05	C1		(62 )	01		HAMA00V 60	
J2123	R05	C2	T18	HAH092V1	00	=		
J2123	R05	C2		(64 )	01		HAMA10V 59	
J2123	R05	C3	T19	HAH093V1	00	=		
J2123	R05	C3		(66 )	01		HAMA20V 61	
J2123	R05	C4	T20	HAH094V1	00	=		
J2123	R05	C4		(68 )	01		HAMA30V 68	
J2123	R05	C5	T20	HAH095V1	00	=		
J2123	R05	C5		(70 )	01		HAMA40V 71	
J2123	R05	C6	T22	HAH096V1	00	=		
J2123	R05	C6		(72 )	01		HAMA50V 73	
J2123	R05	C7	T23	HAH097V1	00	=		
J2123	R05	C7		(74 )	01		HARM50V 63	
J2123	R05	C8	T24	HAH098V1	00	=		
J2123	R05	C8		(76 )	01		HARM50V 65	
J2109	TQ2	A1	05A	HAI1AA	00	=		
J2109	TQ2	A1	06A	(06 )	01		HAD010E HALDCAV 08 06A 10 07A	
J2117	TT3	A1	04A	HAI1ABA	00	=		
J2117	TT3	A1	05A	(04 )	01		HAD012E HBCP2A HBCP3A 06 05A 08 06A 10 07A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

REV E INDEX HAIACA  
DATE 09-01-82 PAGE 61

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
			AND	OR					
J2109	TQ2	A3	04B		HAIACA	00	=		
J2109	TQ2	A3	02A		(09 )	01		HAD020E SPI025 03 02A 07 03A	
J2106	TQ2	C1	18A		HAIADA	00	=		
J2106	TQ2	C1	19A		(38 )	01		HAD021E HBCP1A 40 19A 42 20A	
J2117	TT3	C2	15B		HAIAEA	00	=		
J2117	TT3	C2	14B		(31 )	01		HAD022E HBCP3A HBCPAA 29 14B 30 15A 34 16A	
J2117	TT3	C3	19B		HAIAEA	00	=		
J2117	TT3	C3	16B		(39 )	01		HBCPOA HAD023E HBCP8A 33 16B 35 17B 37 18B	
J2141	THI	F5	36A		HATAEOV	00	=		
J2141	THI	F5	37A		(78 )	01		HAIAGA 76 37A	
J2117	TT3	D1	23A		HAIAGA	00	=		
J2117	TT3	D1	24A		(50 )	01		HAD032E HBCP6A HBBP1A 52 24A 54 25A 56 26A	
J2109	TQ2	D3	24B		HAIAHA	00	=		
J2109	TQ2	D3	22B		(45 )	01		HAD040E HALDCAV 41 22B 43 23B	
J2135	TD4	D1	25B		HAIATA	00	=		
J2135	TD4	D1	26B		(47 )	01		HAD042E HBCP3A HBCP2A HBBP2A 49 26B 52 24A 54 25A 56 26A	
J2117	TT3	D2	23B		HAIATA	00	=		
J2117	TT3	D2	22B		(43 )	01		HAD051E HBCP1A HBBP3A 41 22B 46 21A 48 22A	
J2135	TD4	B2	10B		HAIACA	00	=		
J2135	TD4	B2	09A		(21 )	01		HAD052E HBCP3A HBCPAA SPI034 14 09A 18 10A 19 09B 20 11A	
J2106	TQ2	E4	33B		HAIALA	00	=		
J2106	TQ2	E4	31B		(63 )	01		HAD053E HBCPOA 59 31B 61 32B	
J2109	TQ2	F2	34A		HAIABA	00	=		
J2109	TQ2	F2	36A		(72 )	01		HAD062E HBCP7A 71 36A 73 36B	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

REV E INDEX HAIBBA  
DATE 09-01-82 PAGE 62

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
J2114	TQ2	A1	05A	HA1BBA	00	=		
J2114	TQ2	A1	06A	(06 )	01		HAD070E HALDCAV 08 06A 10 07A	
J2117	TT3	A2	03A	HA1BCA	00	=		
J2117	TT3	A2	02B	(07 )	01		HAD072E HBCP2A HBCP3A 01 02B 03 02A 05 03B	
J2114	TQ2	A2	02B	HA1BDA	00	=		
J2114	TQ2	A2	04A	(01 )	01		HAD081E HBCP1A 04 04A 05 03B	
J2114	TQ2	A3	04B	HA1BEA	00	=		
J2114	TQ2	A3	02A	(09 )	01		HAD082E HBCP3A 03 02A 07 03A	
J2114	TQ2	B1	12A	HA1BEA	00	=		
J2114	TQ2	B1	13A	(22 )	01		HAD083E HBCP5A 24 13A 26 14A	(652+MEM POS CP)
J2114	TQ2	B2	09A	HA1BGA	00	=		
J2114	TQ2	B2	10A	(14 )	01		HAD091E HBCP9A 18 10A 20 11A	
J2112	TH1	D5	24B	HA1BGGV	00	=		
J2112	TH1	D5	25B	(43 )	01		HA1BGA 45 25B	
J2114	TQ2	B3	10B	HA1BHA	00	=		
J2114	TQ2	B3	08B	(21 )	01		HAD092E HBCP6A 17 08B 19 09B	
J2114	TQ2	B4	13B	HA1BIA	00	=		
J2114	TQ2	B4	11B	(27 )	01		HAD100E HALDDAV 23 11B 25 12B	
J2117	TT3	D3	27B	HA1BJA	00	=		
J2117	TT3	D3	24B	(51 )	01		HAD102E HBCP2A HACP3AV 45 24B 47 25B 49 26B	
J2114	TQ2	E1	31A	HA1BKA	00	=		
J2114	TQ2	E1	32A	(66 )	01		HAD111E HBCP1A 68 32A 70 33A	
J2114	TQ2	E2	28A	HA1CAA	00	=		
J2114	TQ2	E2	29A	(60 )	01		HAD112E HACP3AV 62 29A 64 30A	



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAICBA  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 63

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	TEST POINT RATOR	FACTOR	COMMENT
J2114	TQ2	E3	30B	HAICBA	00	=		
J2114	TQ2	E3	28B	(57 )	01		HAD113E HBCP5A 53 28B 55 29B	
J2114	TQ2	F1	37B	HAICCA	00	=		
J2114	TQ2	F1	38B	(75 )	01		HAD121E HBCP9A 77 38B 79 39B	
J2112	THI	A1	06A	HAICCOV	00	=		
J2112	THI	A1	07A	(13 )	01		HAICCA 11 07A	
J2114	TQ2	F2	34A	HAICDA	00	=		
J2114	TQ2	F2	36A	(72 )	01		HAD122E HBCP6A 71 36A 73 36B	
J2114	TQ2	A4	07B	HAICFA	00	=		
J2114	TQ2	A4	05B	(15 )	01		HAD130E HALDDAV 11 05B 13 06B	
J2114	TQ2	C1	18A	HAICFA	00	=		
J2114	TQ2	C1	19A	(38 )	01		HAD131E HBCP9A 40 19A 42 20A	
J2116	THI	B3	09A	HAICFOV	00	=		
J2116	THI	B3	10A	(18 )	01		HAICFA 20 10A	
J2117	TT3	A3	07B	HAICGA	00	=		
J2117	TT3	A3	04B	(15 )	01		HAD132E HBCP2A HACP3AV 09 04B 11 05B 13 06B	
J2114	TQ2	C2	15A	HAICHA	00	=		
J2114	TQ2	C2	16A	(30 )	01		HAD141E HBCP1A 34 16A 36 17A	
J2114	TQ2	C3	16B	HAICIA	00	=		
J2114	TQ2	C3	14B	(33 )	01		HAD142E HACP3AV 29 14B 31 15B	
J2114	TQ2	C4	19B	HAICJA	00	=		
J2114	TQ2	C4	17B	(39 )	01		HAD143E SPI025 35 17B 37 18B	
J2114	TQ2	D1	24A	HAICKA	00	=		
J2114	TQ2	D1	25A	(52 )	01		HAD152E HBCP7A 54 25A 56 26A	

DRAWING NUMBER WL10281451 LOGIC  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX HAICLA  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 64

CONNECTOR	GROUP	TEST POINTS AND OR	EQUATION	TERM DESIGNATOR	FACTOR	COMMENT
J2114	TQ2	D2 21A	HAICLA	00 =		
J2114	TQ2	D2 22A	(146 )	01	HAD160E HAL0DAV 48 22A 50 23A	
J2114	TQ2	D3 24B	HAICMA	00 =		
J2114	TQ2	D3 22B	(145 )	01	HAD161E HBCP7A 41 22B 43 23B	
J2117	TT3	C1 17A	HAICNA	00 =		
J2117	TT3	C1 18A	(136 )	01	HAD162E HBCP2A HACP3AV 38 18A 40 19A 42 20A	
J2114	TQ2	D4 27B	HAICPA	00 =		
J2114	TQ2	D4 25B	(151 )	01	HAD171E HBCP1A 47 25B 49 26B	
J2114	TQ2	F3 35A	HAICQA	00 =		
J2114	TQ2	F3 34B	(169 )	01	HAD172E HACP3AV 65 34B 74 35B	
J2114	TQ2	F4 39A	HAICRA	00 =		
J2114	TQ2	F4 37A	(180 )	01	HAD173E HBCP5A 76 37A 78 38A	
J2108	THI	A3 03A	HAI01AV	00 =		
J2108	THI	A3 02A	(03 )	01	HAD011E 04 02A	
J2108	THI	B1 13A	HAI02AV	00 =		
J2108	THI	B1 14A	(24 )	01	HAD013E 22 14A	
J2108	THI	C1 19A	HAI03AV	00 =		
J2108	THI	C1 20A	(140 )	01	HAD030E 38 20A	
J2108	THI	E2 30A	HAI04AV	00 =		
J2108	THI	E2 31A	(163 )	01	HAD031E 61 31A	
J2109	TQ2	B4 13B	HAI05A	00 =		
J2109	TQ2	B4 11B	(27 )	01	HAD033E SPI025 23 11B 25 12B	
J2109	TQ2	C3 16B	HAI06A	00 =		
J2109	TQ2	C3 14B	(133 )	01	HBNBCA HAD041E 29 14B 31 15B	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAI060V  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2141	THI	B6	12B	HAI060V	00	=		
J2141	THI	B6	13B	(26 )	01		HAI06A 27 13B	
J2108	THI	E5	30B	HAI07AV	00	=		
J2108	THI	E5	31B	(57 )	01		HAD043E 59 31B	
J2106	TQ2	B2	09A	HAI08A	00	=		
J2106	TQ2	B2	10A	(14 )	01		HAD050E HBCP4A 18 10A 20 11A	
J2141	THI	B5	10B	HAI080V	00	=		
J2141	THI	B5	11B	(19 )	01		HAI08A 21 11B	
J2108	THI	F5	36A	HAI09AV	00	=		
J2108	THI	F5	37A	(78 )	01		HAD060E 76 37A	
J2108	THI	F6	38A	HAI10AV	00	=		
J2108	THI	F6	39A	(77 )	01		HAD061E 75 39A	
J2106	TQ2	F4	39A	HAI11A	00	=		
J2106	TQ2	F4	37A	(80 )	01		HAD063E SPI025 76 37A 78 38A	
J2112	THI	B5	10B	HAI12AV	00	=		
J2112	THI	B5	11B	(19 )	01		HAD071E 21 11B	
J2112	THI	B6	12B	HAI13AV	00	=		
J2112	THI	B6	13B	(26 )	01		HAD073E 27 13B	
J2106	TQ2	B3	10B	HAI14A	00	=		
J2106	TQ2	B3	08B	(21 )	01		HAD080E HBCP4A 17 08B 19 09B	
J2112	THI	E2	30A	HAI140V	00	=		
J2112	THI	E2	31A	(63 )	01		HAI14A 61 31A	
J2106	TQ2	E3	30B	HAI15A	00	=		
J2106	TQ2	E3	28B	(57 )	01		HBCKBA HAD090E 53 28B 55 29B	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAI16A  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 66

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	ORIGINATOR	FACTOR	COMMENT
J2114	TQ2	E4	33B	HAI16A	00	#		
J2114	TQ2	E4	31B	(63 )	01		HAD093E SPI025 59 31B 61 32B	
J2112	THI	D6	26B	HAI17AV	00	#		
J2112	THI	D6	27B	(53 )	01		HAD101E 51 27B	
J2112	THI	E1	32A	HAI18AV	00	#		
J2112	THI	E1	33A	(66 )	01		HAD103E 64 33A	
J2106	TQ2	B1	12A	HAI19A	00	#		
J2106	TQ2	B1	13A	(22 )	01		HAD110E HBCP4A 24 13A 26 14A	
J2112	THI	C1	19A	HAI19CV	00	#		
J2112	THI	C1	20A	(40 )	01		HAI19A 38 20A	
J2112	THI	E3	28A	HAI20AV	00	#		
J2112	THI	E3	29A	(60 )	01		HAD120E 62 29A	
J2109	TQ2	F3	35A	HAI21A	00	#		
J2109	TQ2	F3	34B	(69 )	01		HAD123E SPI026 65 34B 74 35B	
J2116	THI	B2	11A	HAI22AV	00	#		
J2116	THI	B2	12A	(25 )	01		HAD133E 23 12A	
J2106	TQ2	B4	13B	HAI23A	00	#		
J2106	TQ2	B4	11B	(27 )	01		HAD140E HBCP4A 23 11B 25 12B	
J2116	THI	D6	26B	HAI230V	00	#		
J2116	THI	D6	27B	(53 )	01		HAI23A 51 27B	
J2116	THI	B4	09B	HAI24AV	00	#		
J2116	THI	B4	09B	(14 )	01		HAD150E 17 09B	
J2116	THI	B5	10B	HAI25AV	00	#		
J2116	THI	B5	11B	(19 )	01		HAD151E 21 11B	

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WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAI26A  
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CONNECTOR	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG. FACTOR	FACTOR	COMMENT
J2109	TQ2	C1 18A	HAI26A	00	=		
J2109	TQ2	C1 19A	(138 )	01		SPI026 HAD153E 60 19A 62 20A	
J2116	THI	D4 22B	HAI27AV	00	=		
J2116	THI	D4 23B	(146 )	01		HAD163E 41 23B	
J2116	THI	D5 24B	HAI28AV	00	=		
J2116	THI	D5 25B	(143 )	01		HAD170E 45 25B	
J2106	TQ2	C4 19B	HAI29A	00	=		
J2106	TQ2	C4 17B	(139 )	01		HAD180E HBCP4A 35 17B 37 18B	
J2108	THI	E6 32B	HAI290V	00	=		
J2108	THI	E6 33B	(168 )	01		HAI29A 65 33B	
J2116	THI	E1 32A	HAI30AV	00	=		
J2116	THI	E1 33A	(166 )	01		HAD181E 64 33A	
J2109	TQ2	F4 39A	HAI31A	00	=		
J2109	TQ2	F4 37A	(180 )	01		HBCP5A HAD182E 76 37A 78 38A	
J2116	THI	E2 30A	HAI32AV	00	=		
J2116	THI	E2 31A	(163 )	01		HAD183E 61 31A	
J2108	THI	A2 04A	HALDCAV	00	=		
J2108	THI	A2 05A	(108 )	01		HBLDCO 06 05A	
J2108	THI	E3 28A	HALDDAV	00	=		
J2108	THI	E3 29A	(160 )	01		HBLDCO 62 29A	
J2140	TT3	E2 29B	HA104A	00	=		
J2140	TT3	E2 28B	(155 )	01		HAH014V1 HAG040V SPI050 53 28B 60 28A 62 29A	
J2140	TT3	A1 04A	HA108A	00	=		
J2140	TT3	A1 05A	(104 )	01		HAH018V1 HA1AF0V HAG080V 06 05A 08 06A 10 07A	

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WL10281451  
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LOGIC

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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	ORIGIN	DESTINATION	FACTOR	COMMENT
J2140	TT3	A2	03A	HAL14A	00	=			
J2140	TT3	A2	02B	(07 )	01		HAI060V HAH026V1 HAG140V 01 02B 03 02A 05 03B		
J2140	TT3	E3	33B	HAL15A	00	=			
J2140	TT3	E3	30B	(63 )	01		SPI050 HAG150V HAH027V1 57 30B 59 31B 61 32B		
J2140	TT3	A3	07B	HAL17A	00	=			
J2140	TT3	A3	04B	(15 )	01		HAG170V HAI080V HAH031V1 09 04B 11 05B 13 06B		
J2140	TT3	F1	36B	HAL26A	00	=			
J2140	TT3	F1	37B	(73 )	01		HAH042V1 HAG260V SPI050 75 37B 77 38B 79 39B		
J2140	TT3	B1	11A	HAL29A	00	=			
J2140	TT3	B1	12A	(20 )	01		HAH045V1 HAI140V HAG290V 22 12A 24 13A 26 14A		
J2140	TT3	B2	09B	HAL34A	00	=			
J2140	TT3	B2	09A	(19 )	01		HAIB60V HAH052V1 HAG340V 14 09A 17 08B 18 10A		
J2140	TT3	B3	13B	HAL41A	00	=			
J2140	TT3	B3	10B	(27 )	01		HAG410V HAI190V HAH061V1 21 10B 23 11B 25 12B		
J2140	TT3	C1	17A	HAL46A	00	=			
J2140	TT3	C1	18A	(36 )	01		HAH066V1 HAIC60V HAG460V 38 18A 40 19A 42 20A		
J2140	TT3	F2	35B	HAL48A	00	=			
J2140	TT3	F2	34B	(74 )	01		HAH068V1 SPI050 HAG480V 65 34B 71 36A 72 34A		
J2140	TT3	C2	15B	HAL50A	00	=			
J2140	TT3	C2	14B	(31 )	01		HAH072V1 HAICF0V HAG500V 29 14B 30 15A 34 16A		
J2140	TT3	C3	19B	HAL53A	00	=			
J2140	TT3	C3	16B	(39 )	01		HAG530V HAI230V HAH075V1 33 16B 35 17B 37 18B		
J2140	TT3	F3	39A	HAL66A	00	=			
J2140	TT3	F3	35A	(80 )	01		SPI050 HAH092V1 HAGM30V 69 35A 76 37A 78 38A		

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 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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CONNECTOR	TEST POINT	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
J2140	TT3	D1	23A	HAL69A	00	=		
J2140	TT3	D1	24A	(50 )	01		HAM095V1 HAI290V HAG690V 52 24A 54 25A 56 26A	
J2139	DBC	A1	04A	HAMGC0T	00	=		
J2139	DBC	A1	02A	(08 )	01		HACMC7V1 04 02A	
J2139	DBC	A2	05A	HAMGC1T	00	=		
J2139	DBC	A2	03A	(10 )	01		HACMC8V1 06 03A	
J2139	DBC	A3	06A	HAMGC2T	00	=		
J2139	DBC	A3	02B	(14 )	01		HAGN50V 03 02B	
J2139	DBC	A4	07A	HAMGC3T	00	=		
J2139	DBC	A4	03B	(13 )	01		HAMXXAV 05 03B	
J2139	DBC	A5	08B	HAMGC4T	00	=		
J2139	DBC	A5		(17 )	01		SPA 4T	
J2139	DBC	A6	04B	HAMGC5T	00	=		
J2139	DBC	A6		(07 )	01		SPA 5T	
J2139	DBC	A7	05B	HAMGC6T	00	=		
J2139	DBC	A7		(09 )	01		SPA 6T	
J2139	DBC	A8	06B	HAMGC7T	00	=		
J2139	DBC	A8		(11 )	01		SPA 7T	
J2139	DBC	A9	07B	HAMGC8T	00	=		
J2139	DBC	A9		(15 )	01		SPA 8T	
J2139	DBC	A0	09A	HAMGC9T	00	=		
J2139	DBC	A0		(18 )	01		SPA 9T	
J2136	THI	D2	23A	HAMXXAV	00	=		
J2136	THI	D2	24A	(49 )	01		HARM20V 47 24A	

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UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

UNIT ASSEMBLY NO. 10281451  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM. DESIGNATION	FACTOR	COMMENT
J2107	TLD	A1	05A	HAP01D	00 =		
J2107	TLD	A1	06A	(06 )	01	HADAAAV HAH011V1 08 06A 10 07A	1(7A)
J2107	TLD	A2	07B	HAP02D	00 =		
J2107	TLD	A2	04A	(01 )	01	HADABAV HAH012V1 04 06A 05 03B	2(6A)
J2107	TLD	A3	04B	HAP03D	00 =		
J2107	TLD	A3	02A	(09 )	01	HADACAV HAH013V1 03 02A 07 03A	3(5A)
J2107	TLD	A4	07B	HAP04D	00 =		
J2107	TLD	A4	05B	(15 )	01	HADADAV HAH014V1 11 05B 13 06B	4(4A)
J2107	TLD	B1	12A	HAP05D	00 =		
J2107	TLD	B1	13A	(22 )	01	HADAEAV HAH015V1 24 13A 26 14A	5(3B)
J2107	TLD	B2	09A	HAP06D	00 =		
J2107	TLD	B2	10A	(14 )	01	HADAFAV HAH016V1 18 10A 20 11A	6(2B)
J2107	TLD	B3	10B	HAP07D	00 =		
J2107	TLD	B3	08B	(21 )	01	HADAGAV HAH017V1 17 08B 19 09B	7(2A)
J2107	TLD	B4	13B	HAP08D	00 =		
J2107	TLD	B4	11B	(27 )	01	HADAHAV HAH018V1 23 11B 25 12B	8(3A)
J2107	TLD	C1	18A	HAP09D	00 =		
J2107	TLD	C1	19A	(38 )	01	HADAIIV HAH021V1 40 19A 42 20A	9(4B)
J2107	TLD	C2	15A	HAP10D	00 =		
J2107	TLD	C2	16A	(30 )	01	HADAJAV HAH022V1 34 16A 36 17A	10(5B)
J2107	TLD	C3	16B	HAP11D	00 =		
J2107	TLD	C3	14B	(33 )	01	HADAKAV HAH023V1 29 14B 31 15B	11(6B)
J2107	TLD	C4	19B	HAP12D	00 =		
J2107	TLD	C4	17B	(39 )	01	HADALAV HAH024V1 35 17B 37 18B	12(7B)



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WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAP13D  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2107	TLD	D1	24A	HAP13D	00	=		13(14A)
J2107	TLD	D1	25A	(52 )	01		HADAMAV HAH025V1 54 25A 56 26A	
J2107	TLD	D2	21A	HAP14D	00	=		14(13A)
J2107	TLD	D2	22A	(46 )	01		HADANAV HAH026V1 48 22A 50 23A	
J2107	TLD	D3	24B	HAP15D	00	=		15(12A)
J2107	TLD	D3	22B	(45 )	01		HADAPAV HAH027V1 41 22B 43 23B	
J2107	TLD	D4	27B	HAP16D	00	=		16(11A)
J2107	TLD	D4	25B	(51 )	01		HADAQAV HAH028V1 47 25B 49 26B	
J2107	TLD	E1	31A	HAP17D	00	=		17(10A)
J2107	TLD	E1	32A	(66 )	01		HADARAV HAH031V1 68 32A 70 33A	
J2107	TLD	E2	28A	HAP18D	00	=		18(9A)
J2107	TLD	E2	29A	(60 )	01		HADASAV HAH032V1 62 29A 64 30A	
J2107	TLD	E3	30B	HAP19D	00	=		19(8B)
J2107	TLD	E3	28B	(57 )	01		HADATAV HAH033V1 53 28B 55 29B	
J2107	TLD	E4	33B	HAP20D	00	=		20(9B)
J2107	TLD	E4	31B	(63 )	01		HADAUAV HAH034V1 59 31B 61 32B	
J2107	TLD	F1	37B	HAP21D	00	=		21(10B)
J2107	TLD	F1	38B	(75 )	01		HADBAAV HAH035V1 77 38B 79 39B	
J2107	TLD	F2	34A	HAP22D	00	=		22(11B)
J2107	TLD	F2	36A	(72 )	01		HADBBAV HAH036V1 71 36A 73 36B	
J2107	TLD	F3	35A	HAP23D	00	=		23(12B)
J2107	TLD	F3	34B	(69 )	01		HADBCAV HAH037V1 65 34B 74 35B	
J2107	TLD	F4	39A	HAP24D	00	=		
J2107	TLD	F4	37A	(80 )	01		HADBDAV HAH038V1 76 37A 78 38A	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAP25D  
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CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG- NATOR	FACTOR	COMMENT
J2110	TLD	A1	05A	HAP25D	00	=		
J2110	TLD	A1	06A	(06 )	01		HADBEAV HAH041V1 08 06A 10 07A	25(20A)
J2110	TLD	A2	02B	HAP26D	00	=		
J2110	TLD	A2	04A	(01 )	01		HADBFV HAH042V1 04 04A 05 03B	26(19A)
J2110	TLD	A3	04B	HAP27D	00	=		
J2110	TLD	A3	02A	(09 )	01		HADBGAV HAH043V1 03 02A 07 03A	27(18A)
J2110	TLD	A4	07B	HAP28D	00	=		
J2110	TLD	A4	05B	(15 )	01		HADBHAV HAH044V1 11 05B 13 06B	28(17A)
J2110	TLD	B1	12A	HAP29D	00	=		
J2110	TLD	B1	13A	(22 )	01		HADBIAV HAH045V1 24 13A 26 14A	29(16A)
J2110	TLD	B2	09A	HAP30D	00	=		
J2110	TLD	B2	10A	(14 )	01		HADBJAV HAH046V1 18 10A 20 11A	30(15A)
J2110	TLD	B3	10B	HAP31D	00	=		
J2110	TLD	B3	08B	(21 )	01		HADBKAV HAH047V1 17 08B 19 09B	31(14B)
J2110	TLD	B4	13B	HAP32D	00	=		
J2110	TLD	B4	11B	(27 )	01		HADBLAV HAH048V1 23 11B 25 12B	32(13B)
J2110	TLD	C1	18A	HAP33D	00	=		
J2110	TLD	C1	19A	(38 )	01		HADBMAV HAH051V1 40 19A 42 20A	33(16B)
J2110	TLD	C2	15A	HAP34D	00	=		
J2110	TLD	C2	16A	(30 )	01		HADBNV HAH052V1 34 16A 36 17A	34(17B)
J2110	TLD	C3	16B	HAP35D	00	=		
J2110	TLD	C3	14B	(33 )	01		HADBPAV HAH053V1 29 14B 31 15B	35(18B)
J2110	TLD	C4	19B	HAP36D	00	=		
J2110	TLD	C4	17B	(39 )	01		HADBQAV HAH054V1 35 17B 37 18B	36(19B)

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 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

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CONNECTOR	GROUP	POINT	EQUATION	TERM	RELATION	FACTOR	COMMENT
J2110	T1D	D1 24A	HAP37D	00 =			
J2110	T1D	D1 25A	(152 )	01		HADBRAV HAH055V1 56 25A 56 26A	37(26A)
J2110	T1D	D2 21A	HAP38D	00 =			
J2110	T1D	D2 22A	(146 )	01		HADBSAV HAH056V1 48 22A 50 23A	38(25A)
J2110	T1D	D3 24B	HAP39D	00 =			
J2110	T1D	D3 22B	(145 )	01		HADBTAV HAH057V1 61 22B 63 23B	39(24A)
J2110	T1D	D4 27B	HAP40D	00 =			
J2110	T1D	D4 25B	(151 )	01		HADBUAV HAH058V1 47 25B 49 26B	40(23A)
J2110	T1D	E1 31A	HAP41D	00 =			
J2110	T1D	E1 32A	(166 )	01		HADBVAV HAH061V1 68 32A 70 33A	41(22A)
J2110	T1D	E2 28A	HAP42D	00 =			
J2110	T1D	E2 29A	(160 )	01		HADBWAV HAH062V1 62 29A 64 30A	42(21A)
J2110	T1D	E3 30B	HAP43D	00 =			
J2110	T1D	E3 28B	(157 )	01		HADCAAV HAH063V1 53 28B 55 29B	43(22B)
J2110	T1D	E4 33B	HAP44D	00 =			
J2110	T1D	E4 31B	(163 )	01		HADCBVAV HAH064V1 59 31B 61 32B	44(23B)
J2110	T1D	F1 37B	HAP45D	00 =			
J2110	T1D	F1 38B	(175 )	01		HADCCAV HAH065V1 77 38B 79 39B	45(22B)
J2110	T1D	F2 34A	HAP46D	00 =			
J2110	T1D	F2 36A	(172 )	01		HADCDVAV HAH066V1 71 36A 73 36B	46(25B)
J2110	T1D	F3 35A	HAP47D	00 =			
J2110	T1D	F3 34B	(169 )	01		HADCEAV HAH067V1 65 34B 74 35B	47(26B)
J2110	T1D	F4 39A	HAP48D	00 =			
J2110	T1D	F4 37A	(180 )	01		HADCFVAV HAH068V1 76 37A 78 38A	48(27B)

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

REV E INDEX HAP49D  
DATE 09-01-82 PAGE 74

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2113	TLD	A1	05A	HAP49D	00	#		
J2113	TLD	A1	06A	(06 )	01		HADCGAV HAH071V1 08 06A 10 07A	49(33A)
J2113	TLD	A2	02B	HAP50D	00	#		
J2113	TLD	A2	04A	(01 )	01		HADCHAV HAH072V1 04 04A 05 03B	50(32A)
J2113	TLD	A3	04B	HAP51D	00	#		
J2113	TLD	A3	02A	(09 )	01		HADCIAV HAH073V1 03 02A 07 03A	51(31A)
J2113	TLD	A4	07B	HAP52D	00	#		
J2113	TLD	A4	05B	(15 )	01		HADCJAV HAH074V1 11 05B 13 06B	52(30A)
J2113	TLD	B1	12A	HAP53D	00	#		
J2113	TLD	B1	13A	(22 )	01		HADCKAV HAH075V1 24 13A 26 14A	53(29A)
J2113	TLD	B2	09A	HAP54D	00	#		
J2113	TLD	B2	10A	(14 )	01		HADCLAV HAH076V1 18 10A 20 11A	54(28A)
J2113	TLD	B3	10B	HAP55D	00	#		
J2113	TLD	B3	08B	(21 )	01		HADCMVAV HAH077V1 17 08B 19 09B	55(28B)
J2113	TLD	B4	13B	HAP56D	00	#		
J2113	TLD	B4	11B	(27 )	01		HADCNAV HAH078V1 23 11B 25 12B	56(29B)
J2113	TLD	C1	18A	HAP57D	00	#		
J2113	TLD	C1	19A	(38 )	01		HADCPAV HAH081V1 40 19A 42 20A	57(30B)
J2113	TLD	C2	15A	HAP58D	00	#		
J2113	TLD	C2	16A	(30 )	01		HADCQAV HAH082V1 34 16A 36 17A	58(31B)
J2113	TLD	C3	16B	HAP59D	00	#		
J2113	TLD	C3	14B	(33 )	01		HADCRAV HAH083V1 29 14B 31 15B	59(32B)
J2113	TLD	C4	19B	HAP60D	00	#		
J2113	TLD	C4	17B	(39 )	01		HADCSAV HAH084V1 35 17B 37 19B	60(33B)

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAP61D  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 75

CONNECTOR	GROUP	TEST POINTS AND OR	EQUATION	TERM	RELATION	FACTOR	COMMENT
J2113	TLD D1 24A	HAP61D	00 =			61(398)	
J2113	TLD D1 25A	(52 )	01		HADCTAV HAH085V1 54 25A 56 26A		
J2113	TLD D2 21A	HAP62D	00 =			62(388)	
J2113	TLD D2 22A	(46 )	01		HADCUAV HAH086V1 48 22A 50 23A		
J2113	TLD D3 24B	HAP63D	00 =			63(378)	
J2113	TLD D3 22B	(45 )	01		HADCVAV HAH087V1 41 22B 43 23B		
J2113	TLD D4 27B	HAP64D	00 =			64(368)	
J2113	TLD D4 25B	(51 )	01		HADCWAV HAH088V1 47 25B 49 26B		
J2113	TLD E1 31A	HAP65D	00 =			65(36A)	
J2113	TLD E1 32A	(66 )	01		HADCXAV HAH091V1 68 32A 70 33A		
J2113	TLD E2 28A	HAP66D	00 =			66(34A)	
J2113	TLD E2 29A	(60 )	01		HADCYAV HAH092V1 62 29A 64 30A		
J2113	TLD E3 30B	HAP67D	00 =			67(34B)	
J2113	TLD E3 28B	(57 )	01		HADCZAV HAH093V1 53 28B 55 29B		
J2113	TLD E4 33B	HAP68D	00 =			68(35B)	
J2113	TLD E4 31B	(63 )	01		HADDAV HAH094V1 59 31B 61 32B		
J2113	TLD F1 37B	HAP69D	00 =			69(35A)	
J2113	TLD F1 38B	(75 )	01		HADDBAV HAH095V1 77 38B 79 39B		
J2113	TLD F2 34A	HAP70D	00 =			70(37A)	
J2113	TLD F2 36A	(72 )	01		HADDCAV HAH096V1 71 36A 73 36B		
J2113	TLD F3 35A	HAP71D	00 =			71(38A)	
J2113	TLD F3 34B	(69 )	01		HADDDAV HAH097V1 65 34B 74 35B		
J2113	TLD F4 39A	HAP72D	00 =			72(39A)	
J2113	TLD F4 37A	(80 )	01		HADDEAV HAH098V1 76 37A 78 38A		

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HARM20V  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 76

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2141	THI	F3	34B	HARM20V	00	=		
J2141	THI	F3	35B	(70 )	01	=	HBSAKAV 69 35B	ENA 2
J2136	THI	F2	34B	HARM40V	00	=		
J2136	THI	F2	37B	(71 )	01	=	HBSAKAV 73 37B	ENA 4
J2136	THI	F3	34B	HARM50V	00	=		
J2136	THI	F3	35B	(70 )	01	=	HBSAKAV 69 35B	ENA 5
J2141	THI	A1	06A	HATAA0V	00	=		
J2141	THI	A1	07A	(13 )	01	=	HBCGDAV 11 07A	
J2141	THI	A2	04A	HATAS0V	00	=		
J2141	THI	A2	05A	(08 )	01	=	HBCGEAV 06 05A	
J2141	THI	A3	03A	HATAC0V	00	=		
J2141	THI	A3	02A	(03 )	01	=	HBCGEAV 04 02A	
J2141	THI	A4	02B	HATAD0V	00	=		
J2141	THI	A4	03B	(01 )	01	=	HBCGDAV 05 03B	
J2141	THI	A5	04B	HATAE0V	00	=		
J2141	THI	A5	05B	(07 )	01	=	HBCGFAV 09 05B	
J2141	THI	A6	04B	HATAE0V	00	=		
J2141	THI	A6	07B	(10 )	01	=	HBCGFAV 15 07B	
J2141	THI	B1	13A	HATAG0V	00	=		
J2141	THI	B1	14A	(24 )	01	=	HBCGDAV 22 14A	
J2141	THI	B2	11A	HATAH0V	00	=		
J2141	THI	B2	12A	(25 )	01	=	HBCGFAV 23 12A	
J2141	THI	B3	09A	HATAJ0V	00	=		
J2141	THI	B3	10A	(18 )	01	=	HBCGEAV 20 10A	

DRAWING NUMBER WL10281451 LOGIC  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX HAT010E  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 77

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIG. NOTOR	FACTOR	COMMENT
J2147	TS4	A1	05B	HAT010E	00	=		
J2147	TS4	A1	03B	(07 )	01		HADAAO HAGN6OV 03 03B 05 04B	
J2147	TS4	A2	07B	HAT011E	00	=		
J2147	TS4	A2	02B	(11 )	01		HADABO HATABOV 01 02B 08 04A	
J2147	TS4	A3	07A	HAT012E	00	=		
J2147	TS4	A3	02A	(13 )	01		HADACO HATAAOV 04 02A 14 06A	
J2147	TS4	A4	05A	HAT013E	00	=		
J2147	TS4	A4	03A	(10 )	01		HADADO HATAFOV 06 03A 09 06B	
J2146	TS4	B1	11B	HAT020E	00	=		
J2146	TS4	B1	09B	(21 )	01		HADAE0 HAT013E 17 09B 19 10B	
J2146	TS4	B2	13B	HAT021E	00	=		
J2146	TS4	B2	08B	(27 )	01		HADAF0 HATABOV 15 08B 22 11A	
J2146	TS4	B3	14A	HAT022E	00	=		
J2146	TS4	B3	09A	(25 )	01		HADAGO HATAAOV 18 09A 26 13A	
J2146	TS4	B4	12A	HAT023E	00	=		
J2146	TS4	B4	10A	(24 )	01		HADAHO HATAFOV 20 10A 23 12B	
J2147	TS4	C1	17B	HAT030E	00	=		
J2147	TS4	C1	15B	(35 )	01		HADAIO HAT023E 31 15B 33 16B	
J2147	TS4	C2	19B	HAT031E	00	=		
J2147	TS4	C2	14B	(39 )	01		HADAJ0 HATABOV 29 14B 36 17A	
J2147	TS4	C3	20A	HAT032E	00	=		
J2147	TS4	C3	15A	(42 )	01		HADAKO HATAAOV 30 15A 40 19A	
J2147	TS4	C4	18A	HAT033E	00	=		
J2147	TS4	C4	16A	(38 )	01		HADALO HATAFOV 34 16A 37 18B	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAT040E  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 78

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND OR	EQUATION	TERM DESIGNATOR	FACTOR	COMMENT
J2145	TS4	D1	25B	HAT040E	00 =		
J2145	TS4	D1	23B	(47 )	01	HADAMO HAT033E 43 23B 45 24B	
J2145	TS4	D2	27B	HAT041E	00 =		
J2145	TS4	D2	22B	(51 )	01	HADANO HATABOV 41 22B 50 23A	
J2145	TS4	D3	26A	HAT042E	00 =		
J2145	TS4	D3	21A	(56 )	01	HADAPO HATAAOV 44 21A 54 25A	
J2145	TS4	D4	24A	HAT043E	00 =		
J2145	TS4	D4	22A	(52 )	01	HADAQO HATAFOV 48 22A 49 26B	
J2146	TS4	E1	31B	HAT050E	00 =		
J2146	TS4	E1	29B	(61 )	01	HADARO HAT043E 55 29B 59 30B	
J2146	TS4	E2	33B	HAT051E	00 =		
J2146	TS4	E2	28B	(65 )	01	HADASO HATABOV 53 28B 62 30A	
J2146	TS4	E3	33A	HAT052E	00 =		
J2146	TS4	E3	28A	(68 )	01	HADATO HATAAOV 57 28A 66 32A	
J2146	TS4	E4	31A	HAT053E	00 =		
J2146	TS4	E4	29A	(64 )	01	HADAUO HATAFOV 60 29A 63 32B	
J2147	TS4	F1	37B	HAT060E	00 =		
J2147	TS4	F1	35B	(75 )	01	HADBAO HAT053E 71 35B 73 36B	
J2147	TS4	F2	39B	HAT061E	00 =		
J2147	TS4	F2	34B	(79 )	01	HADBBO HATABOV 69 34B 74 36A	
J2147	TS4	F3	39A	HAT062E	00 =		
J2147	TS4	F3	34A	(80 )	01	HADBCO HATAAOV 70 34A 78 38A	
J2147	TS4	F4	37A	HAT063E	00 =		
J2147	TS4	F4	35A	(76 )	01	HADBDO HATAFOV 72 35A 77 38B	



DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2

REV E INDEX HAT070E  
DATE 09-01-82 PAGE 79

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
J2146	TS4	A1	05B	HAT070E	00	=		
J2146	TS4	A1	03B	(07)	01		HADBEO HAT063E 03 03B 05 04B	
J2146	TS4	A2	07B	HAT071E	00	=		
J2146	TS4	A2	02B	(11)	01		HADBFO HATAJOV 01 02B 08 04A	
J2146	TS4	A3	07A	HAT072E	00	=		
J2146	TS4	A3	02A	(13)	01		HADBGO HATAGOV 06 02A 14 06A	
J2146	TS4	A4	05A	HAT073E	00	=		
J2146	TS4	A4	03A	(10)	01		HADBHO HATAHOV 06 03A 09 06B	
J2145	TS4	B1	11B	HAT080E	00	=		
J2145	TS4	B1	09B	(21)	01		HADBIO HAT073E 17 09B 19 10B	
J2145	TS4	B2	13B	HAT081E	00	=		
J2145	TS4	B2	08B	(27)	01		HADBJO HATAJOV 15 08B 22 11A	
J2145	TS4	B3	14A	HAT082E	00	=		
J2145	TS4	B3	09A	(25)	01		HADBKO HATAGOV 18 09A 26 13A	
J2145	TS4	B4	12A	HAT083E	00	=		
J2145	TS4	B4	10A	(24)	01		HADBLO HATAHOV 20 10A 23 12B	
J2146	TS4	C1	17B	HAT090E	00	=		
J2146	TS4	C1	15B	(35)	01		HADBMO HAT083E 31 15B 33 16B	
J2146	TS4	C2	19B	HAT091E	00	=		
J2146	TS4	C2	14B	(39)	01		HADBNO HATAJOV 29 14B 36 17A	
J2146	TS4	C3	20A	HAT092E	00	=		
J2146	TS4	C3	15A	(42)	01		HADBPD HATAGOV 30 15A 40 19A	
J2146	TS4	C4	18A	HAT093E	00	=		
J2146	TS4	C4	16A	(38)	01		HADBQO HATAHOV 34 16A 37 18B	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAT100E  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 80

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS AND/OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2145	TS4	A1	05B	HAT100E	00	=		
J2145	TS4	A1	03B	(07 )	01		HADBRO HAT093E 03 03B 05 04B	
J2145	TS4	A2	07B	HAT101E	00	=		
J2145	TS4	A2	02B	(11 )	01		HADBSO HATACOV 01 02B 08 04A	
J2145	TS4	A3	07A	HAT102E	00	=		
J2145	TS4	A3	02A	(13 )	01		HADBT0 HATADOV 04 02A 14 06A	
J2145	TS4	A4	05A	HAT103E	00	=		
J2145	TS4	A4	03A	(10 )	01		HADBUO HATAEOV 06 03A 09 06B	
J2147	TS4	B1	11B	HAT110E	00	=		
J2147	TS4	B1	09B	(21 )	01		HADBVO HAT103E 17 09B 19 10B	
J2147	TS4	B2	13B	HAT111E	00	=		
J2147	TS4	B2	08B	(27 )	01		HADBWO HATACOV 15 08B 22 11A	
J2147	TS4	B3	14A	HAT112E	00	=		
J2147	TS4	B3	09A	(25 )	01		HADCA0 HATADOV 18 09A 26 13A	
J2147	TS4	B4	12A	HAT113E	00	=		
J2147	TS4	B4	10A	(24 )	01		HADCBO HATAEOV 20 10A 23 12B	
J2145	TS4	C1	17B	HAT120E	00	=		
J2145	TS4	C1	15B	(35 )	01		HADCC0 HAT113E 21 15B 22 16B	
J2145	TS4	C2	19B	HAT121E	00	=		
J2145	TS4	C2	14B	(39 )	01		HADCDO HATACOV 29 14B 36 17A	
J2145	TS4	C3	20A	HAT122E	00	=		
J2145	TS4	C3	15A	(42 )	01		HADCEO HATADOV 30 15A 40 19A	
J2145	TS4	C4	18A	HAT123E	00	=		
J2145	TS4	C4	16A	(38 )	01		HADCFO HATAEOV 34 16A 37 18B	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451  
FILE IDENT TSQ3MTS2  
REV E  
DATE 09-01-82  
INDEX HAT130E  
PAGE 81

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIG-NATOR	FACTOR	COMMENT
			AND	OR					
J2147	TS4	D1	25B		HAT130E	00	=		
J2147	TS4	D1	23B		(47 )	01		HADCGO HAT123E 43 23B 45 24B	
J2147	TS4	D2	27B		HAT131E	00	=		
J2147	TS4	D2	22B		(51 )	01		HADCHO HATACOV 41 22B 50 23A	
J2147	TS4	D3	26A		HAT132E	00	=		
J2147	TS4	D3	21A		(56 )	01		HADCIO HATADOV 46 21A 54 25A	
J2147	TS4	D4	24A		HAT133E	00	=		
J2147	TS4	D4	22A		(52 )	01		HADCJO HATAEOV 48 22A 49 26B	
J2145	TS4	E1	31B		HAT140F	00	=		
J2145	TS4	E1	29B		(61 )	01		HADCKO HAT133E 55 29B 59 30B	
J2145	TS4	E2	33B		HAT141E	00	=		
J2145	TS4	E2	28B		(65 )	01		HADCLO HATACOV 53 28B 62 30A	
J2145	TS4	E3	35A		HAT142E	00	=		
J2145	TS4	E3	28A		(68 )	01		HADCMO HATADOV 57 28A 66 32A	
J2145	TS4	E4	31A		HAT143F	00	=		
J2145	TS4	E4	29A		(64 )	01		HADCNO HATAEOV 60 29A 63 32B	
J2147	TS4	E1	31B		HAT150E	00	=		
J2147	TS4	E1	29B		(61 )	01		HADCPO HAT143E 55 29B 59 30B	
J2147	TS4	E2	33B		HAT151E	00	=		
J2147	TS4	E2	28B		(65 )	01		HADCQO HATACOV 53 28B 62 30A	
J2147	TS4	E3	33A		HAT152E	00	=		
J2147	TS4	E3	28A		(68 )	01		HADCRO HATADOV 57 28A 66 32A	
J2147	TS4	E4	31A		HAT153E	00	=		
J2147	TS4	E4	29A		(64 )	01		HADCSO HATAEOV 60 29A 63 32B	

DRAWING NUMBER  
UNIT ASSEMBLY NAME

WL10281451  
CARD CAGE WIRED RH MTS

LOGIC

TM 11-7010-201-40-3/ET821-AA-MMI-030/EE154 MTS/T.O. 31S5-2TSQ73-2-3  
UNIT ASSEMBLY NO. 10281451 REV E INDEX HAT160E  
FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 82

CONNECTOR	CIRCUIT TYPE	GROUP	TEST POINTS		EQUATION	TERM	DESIGNATION	FACTOR	COMMENT
			AND	OR					
J2146	TS4	D1	25B		HAT160E	00			
J2146	TS4	D1	23B		(47 )	01	HADCTO HAT153E 43 23B 45 24B		
J2146	TS4	D2	27B		HAT161E	00			
J2146	TS4	D2	22B		(51 )	01	HADCUO HATAJOV 41 22B 50 23A		
J2146	TS4	D3	26A		HAT162E	00			
J2146	TS4	D3	21A		(56 )	01	HADCVO HATAGOV 46 21A 54 25A		
J2146	TS4	D4	24A		HAT163E	00			
J2146	TS4	D4	22A		(52 )	01	HADCMO HATAHOV 48 22A 49 24B		
J2145	TS4	F1	37B		HAT170E	00			
J2145	TS4	F1	35B		(75 )	01	HADCXO HAT163E 71 35B 73 36B		
J2145	TS4	F2	39B		HAT171E	00			
J2145	TS4	F2	34B		(79 )	01	HADCYO HATAJOV 69 34B 74 36A		
J2145	TS4	F3	39A		HAT172E	00			
J2145	TS4	F3	34A		(80 )	01	HADCZO HATAGOV 70 34A 78 38A		
J2145	TS4	F4	37A		HAT173E	00			
J2145	TS4	F4	35A		(76 )	01	HADDAO HATAHOV 72 35A 77 38B		
J2146	TS4	F1	37B		HAT180E	00			
J2146	TS4	F1	35B		(75 )	01	HADDBO HAT173E 71 35B 73 36B		
J2146	TS4	F2	39B		HAT181E	00			
J2146	TS4	F2	34B		(79 )	01	HADDCO HATAJOV 69 34B 74 36A		
J2146	TS4	F3	39A		HAT182E	00			
J2146	TS4	F3	34A		(80 )	01	HADDDO HATAGOV 70 34A 78 38A		
J2146	TS4	F4	37A		HAT183E	00			
J2146	TS4	F4	35A		(76 )	01	HADDEO HATAHOV 72 35A 77 38B		

DRAWING NUMBER WL10281451 LOGIC  
 UNIT ASSEMBLY NAME CARD CAGE WIRED RH MTS

UNIT ASSEMBLY NO. 10281451 REV E INDEX HA1CCA  
 FILE IDENT TSQ3MTS2 DATE 09-01-82 PAGE 83

CONNECTOR	CIRCUIT GROUP	TEST POINTS AND OR	EQUATION	TERM	DESIGNATOR	FACTOR	COMMENT
J2136	THI D5	24B	HA1CCA	00	=		
J2136	THI D5	25B	(43 )	01		HA1CCOV 45 25B	
J2141	THI C1	19A	HA1CCOV	00	=		88MAN CARD
J2141	THI C1	20A	(40 )	01		HAMCC3T 38 20A	
J2136	THI D4	22B	HA5CCOV	00	=		5 IC CARD
J2136	THI D4	23B	(46 )	01		HAMCC2T 41 23B	
J2138	TQ2 E4	33B	HA6CCO	00	=		ANY 6 IC CARD
J2138	TQ2 E4	31B	(63 )	01		HAMCC0T HAMCC1T 59 31B 61 32B	

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block; margin-left: 20px;"> <p style="font-size: small; margin: 0;">THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</p> </div>		SOMETHING WRONG WITH PUBLICATION		
		FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)		
PUBLICATION NUMBER		DATE SENT		
PUBLICATION DATE		PUBLICATION TITLE		
BE EXACT PIN-POINT WHERE IT IS				
PAGE NO.	PARA- GRAPH	FIGURE NO.	TABLE NO.	<p style="font-weight: bold; font-size: small;">IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.</p>
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER			SIGN HERE	

