ARMY NAVY AIR FORCE TM 11-7010-201-40-5 ET821-AA-MMI-050/E154 MTS T0 31S5-2TSQ73-2-5

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

DEPARTMENTS OF THE ARMY, NAVY, AND AIR FORCE 28 MARCH 1983



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

DO NOT TRY TO PULL OR GRAB THE INDIVIDUAL

IF POSSIBLE, TURN OFF THE ELECTRICAL POWER

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

SEND FOR HELP AS SOON AS POSSIBLE

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

TM 11-7010-201-40-5/ET821-AA-MMI-050/E154 MTS/TO 31S5-2TSQ73-2-5

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.

TECHNICAL MANUAL NO. 11-7010-201-40-5 TECHNICAL MANUAL ET821-AA-MMI-050/E154 MTS TECHNICAL ORDER T0 31S5-2TSQ73-2-5 TM 11-7010-201-40-5 ET821-AA-MMI-050/E154 MTS T0 31S5-2TSQ73-2-5 DEPARTMENTS OF THE ARMY THE NAVY, AND THE AIR FORCE

Washington, DC, 28 March 1983

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

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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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope. This manual describes the Module Test Set (MTS) Test Aid Assembly, Part Number TE113980 (figure 1-1), hereafter referred to as the MTS test aid. The manual contains instructions for the installation, operation, and functional description. The manual also provides general support maintenance instructions, including troubleshooting, repair and functional test. A complete listing of reference publications is provided in Appendix A. The Maintenance Allocation chart is contained in Appendix B of TM 11-7010-201-12. The Repair Parts and Special Tools List (RPSTL) is contained in TM 11-7010-201-40P.

1-2. Consolidated Index of Army Publications and Blank Forms.

a. *Army*. Refer to the latest issue of DA Pam 310-1 to determine whether there are new editions, changes or additional publications pertaining to the equipment.

b. Air Force. Use T.O. 0.1-31 Series Numerical Index and Requirements Table (NIRT).

1-3. Maintenance Forms, Records and Reports.

a. Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, the Army Maintenance Management System. Air Force personnel will use AFR 66-1 for maintenance reporting and T.O.-OO-35D54 for unsatisfactory equipment reporting. Navy personnel will report maintenance performed utilizing the Maintenance Data Collection Subsystem (MDCS) IAW OPNAVINST 4790.2, Vol 3 and unsatisfactory material/conditions (UR sub- missions) IAW OPNAVINST 4790.2, Vol 2, Chapter 17.

b. Report of Packaging and Handling Deficiencies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73/ARF 400-54/MCO 4430.3E.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33B/AFR 75-18/MCO P4610.19C and DLAR 4500.15.

1-4. Reporting Equipment Improvement Recommendations (EIR).

a. Army. If your MTS Test Aid needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications-Electronics Command, and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703. We'll send you a reply.



Figure 1-1. MTS Test Aid

- b. Air Force. Air Force personnel are encouraged to submit EIRs in accordance with AFR 900-4.
- c. Navy. Navy personnel are encouraged to submit EIRs through their local Beneficial Suggestion Program.

1-5. Administrative Storage. Refer to TM 740-90-1 Administrative Storage, for information covering the administrative storage requirements of this equipment.

1-6. Destruction of Army Electronics Materiel. Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

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Section II. DESCRIPTION AND DATA

1-7. Description. The MTS test aid is designed for use with Test Set, Electronic Circuit Plug-In Unit TS-3317()/TSQ-73, an item of support equipment for Automatic Message Switching Central AN/TYC-39 and Automatic Telephone Central Office AN/TTC-39. The MTS test aid provides a convenient, simultaneous display of the logic states of signals present at connector J7 of the MTS, and is used as a troubleshooting aid in conjunction with the MTS. (For a complete description of the MTS, refer to TM 11-7010-201-12.)

The MTS test aid consists of a chassis assembly and a cable assembly. The chassis assembly is an aluminum alloy enclosure with a hinged front panel, circuit board assembly, and connector receptacle. The front panel contains switches and indicator lamps used for operation of the MTS test aid. The circuit board assembly is mounted inside the chassis and contains integrated circuits and electrical components that are interconnected with the front panel and connector receptacle. A cover on the bottom of the chassis provides access to the MTS test aid interior for maintenance purposes. Two binding posts mounted on the side of the MTS test aid are provided for connecting an external 5v power supply.

The cable assembly consists of two 260-pin connectors wired pin-to-pin and is used to connect the TMS test aid to the MTS.

The MTS test aid provides a visual display of the status of various counters, decoders, and other logic elements of the MTS. It also simultaneously displays the status of 72 logic lines from the MTS. Three different sets of 72 logic lines each are selectable for display by setting a front panel switch. The information displayed by the MTS test aid indicators provides data for use when troubleshooting the MTS, a circuit card under test, or when isolating wiring problems.

The MTS test aid is powered from the MTS during normal operation. However, for functional testing of the MTS test aid, 5 vdc at 5 amperes is required.

1-8. Technical Characteristics.

- a. Power Requirements.
 - (1) Five volts DC is supplied to the test aid by the MTS during normal operation.
 - (2) When the test aid is being functionally tested, input power from an auxiliary 5-vdc source is required.
- b. Physical Characteristics.
 - Test Aid Assembly Height: 5.5 inches Width: 15.0 inches Depth: 10.25 inches Weight: 5 pounds
- (2) Cable Assembly Length: 2 feet Weight: 5 pounds

CHAPTER 2 SERVICE UPON RECEIPT AND INSTALLATION

Section I. SERVICE UPON RECEIPT OF MATERIAL

2-1. Unpacking. No special instructions are required for unpacking the test set. Remove the test set from its shipping container and perform the inspection outlined in paragraph 2-2.

2-2. Checking Unpacked Equipment.

a. Inspect equipment for damage incurred during shipment. If equipment has been damaged, report damage (para 1-3b.).

b. Check equipment against component listing on packing slip to see if shipment is complete. Report all discrepancies in accordance with paragraph 1-3c. The equipment should be placed in service even though a minor assembly or part that does not affect proper functioning is missing.

Section II. INSTALLATION INSTRUCTIONS

2-3. Introduction. This section contains the procedure for interconnection of the MTS test aid to the MTS. The unit is ready for installation after unpacking as described in paragraph 2-1. No special tools are required for installation.

2-4. Electrical Interconnection. Connect the MTS test aid to the MTS with the test aid cable assembly as shown in figure 2-1. Perform operating instructions described in Chapter 3.

CAUTION

When attaching cable assembly to MTS and MTS test aid connectors, carefully aline guide pins and sockets of connector jacks and tighten a little at a time to avoid damaging connector pins.



Figure 2-1. MTS Test Aid Test Setup

CHAPTER 3 OPERATING INSTRUCTIONS

Section I. CONTROLS AND INDICATORS

3-1. Introduction. This section contains the operating instructions for the MTS test aid and includes the functions of all operating controls and indicators.

3-2. Controls, Indicators and Connectors. The MTS test aid controls, indicators and connectors are shown in figure 3-1 and functionally described in table 3-1.



Figure 3-1. MTS Test Aid Controls, Indicators and Connectors

Control/Indicator	Function		
Y ADDRESS indicators 1, 2, 4, 8,	Displays binary configuration of MTS Y address counter.		
16, 32 X ADDRESS indicators 1, 2, 4, 8 TC indicator CK indicator Indicators 1 through 72	Displays binary configuration of MTS X address counter. Display status of test clock control logic. Displays status of clock signals to card under test. Displays status of selected control lines dependent on position of DATA/FUNCTIONAL/CONT selector switch.		
CARD ID indicators 1, 2, 4, 8, 16, 32	Display binary code which identifies card under test.		
STATE indicators 1, 2, 3, 4, 5, 6, 7, 8, 9, O	Displays status of MTS state counters.		
SELF TEST indicators 0, 1, 2, 3, 4, 5, 6, 7	Displays status of self-test data check logic.		
LT momentary pushbutton switch	When pressed, lights all front panel indicators for lamp test.		
SCP momentary pushbutton switch	When pressed, enables sub-state counter to advance 1 cycle after having been stopped by either the SS or BCP switch		
BCP two-position toggle switch	When set to up position, stops sub-state counter at end of each cycle for single stepping		
SS two-position toggle switch	When set to up position, stops sub-state counter at end of cycle if an error has occurred during that cycle		
DATA/FUNCTIONAL/CONT	Enables indicators 1 through 72 to display three different types of		
three-position rotary switch	data:		
	Switch Position Displayed Information DATA Data being strobed onto MTS probe.		
	FUNCTIONAL Functional errors detected by data comparison logic.		
	CONT Continuity errors detected by data comparison logic.		
JO1 connector receptacle	Test aid cable assembly input.		
CAL binding posts Red (+ 5vdc) Black (GND)	Power input (+ 5vdc) for functional test.		

Table 3-1. Controls, Indicators and Connectors

Section II. OPERATION

3-3. Introduction. This section provides operating procedures for the MTS test aid. Procedures for operation of the MTS test aid consist of troubleshooting the MTS and troubleshooting wiring.

3-4. Troubleshooting MTS. The MTS test aid may be used during MTS fault isolation as follows:

- a. Connect MTS test aid to MTS as described in paragraph 2-4.
- b. Set BCP switch down.
- c. Set SS switch down.

d. Perform MTS fault isolation procedure (TM 11-7010-201-12) using table 3-2 for correlating MTS J7 connector pin numbers to their respective MTS test aid lamps.

J7 pin	Test aid lamp	Switch position	J7 pin	Test aid lamp	Switch position
1	STATE 1	Switch position	32	SELF TEST 5	Switch position
2	STATE 2		33	SELF TEST 6	
3	STATE 3		34	SELF TEST 7	
4	STATE 4		35	1	DATA
5	STATE 5		36	2	DATA
6	STATE 6		37	3	DATA
7	STATE 7		38	4	DATA
8	STATE 8		39	5	DATA
9	STATE 9		40	6	DATA
10	STATE O		41	7	DATA
11	X ADDRESS 1		42	8	DATA
12	X ADDRESS 2		43	9	DATA
13	X ADDRESS 4		44	10	DATA
14	X ADDRESS 8		45	11	DATA
15	CARDID1		46	12	DATA
16	CARD ID 2		47	13	DATA
17	CARD ID 4		48	14	DATA
18	CARD ID 8		49	15	DATA
19	CARD ID 16		50	16	DATA
20	CARD ID 32		51	17	DATA
21	Y ADDRESS 1		52	18	DATA
22	Y ADDRESS 2		53	19	DATA
23	Y ADDRESS 4		54	20	DATA
24	Y ADDRESS 8		55	21	DATA
25	Y ADDRESS 16		56	22	DATA
26	Y ADDRESS 32		57	23	DATA
27	SELF TEST O		58	24	DATA
28	SELF TEST 1		59	25	DATA
29	SELF TEST 2		60	26	DATA
30	SELF TEST 3		61	27	DATA
31	SELF TEST 4		62	28	DATA
	-	-	•	-	•

Table 3-2. MTS Connector J7 Pin Numbers and Related Test Aid Lamps

J7 pin number	Test aid lamp	Switch position	J7 pin number	Test aid lamp	Switch position
		I			I

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J7 pin J7 pin number Test aid lamp Switch position number Test aid lamp Switch position DATA ΤС DATA CK DATA **FUNCTIONAL** DATA FUNCT1ONAL DATA FUNCTIONAL DATA **FUNCTIONAL** DATA **FUNCTIONAL** DATA **FUNCTIONAL FUNCTIONAL** DATA DATA **FUNCTIONAL** DATA **FUNCTIONAL** DATA **FUNCTIONAL** DATA **FUNCTIONAL** DATA **FUNCTIONAL FUNCTIONAL** DATA

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J7 pin	Test aid lamp	Switch position	J7 pin	Test aid lamp	Switch position
125	14	FUNCTIONAL	156	45	FUNCTIONAL
126	15	FUNCTIONAL	157	46	FUNCTIONAL
127	16	FUNCTIONAL	158	47	FUNCTIONAL
128	17	FUNCTIONAL	159	48	FUNCTIONAL
129	18	FUNCTIONAL	160	49	FUNCTIONAL
130	19	FUNCTIONAL	161	50	FUNCTIONAL
131	20	FUNCTIONAL	162	51	FUNCTIONAL
132	21	FUNCTIONAL	163	52	FUNCTIONAL
133	22	FUNCTIONAL	164	53	FUNCTIONAL
134	23	FUNCTIONAL	165	54	FUNCTIONAL
135	24	FUNCTIONAL	166	55	FUNCTIONAL
136	25	FUNCTIONAL	167	56	FUNCTIONAL
137	26	FUNCTIONAL	168	57	FUNCTIONAL
138	27	FUNCTIONAL	169	58	FUNCTIONAL
139	28	FUNCTIONAL	170	59	FUNCTIONAL
140	29	FUNCTIONAL	171	60	FUNCTIONAL
141	30	FUNCTIONAL	172	61	FUNCTIONAL
142	31	FUNCTIONAL	173	62	FUNCTIONAL
143	32	FUNCTIONAL	174	63	FUNCTIONAL
144	33	FUNCTIONAL	175	64	FUNCTIONAL
145	34	FUNCTIONAL	176	65	FUNCTIONAL
146	35	FUNCTIONAL	177	66	FUNCTIONAL
147	36	FUNCTIONAL	178	67	FUNCTIONAL
148	37	FUNCTIONAL	179	68	FUNCTIONAL
149	38	FUNCTIONAL	180	69	FUNCTIONAL
150	39	FUNCTIONAL	181	70	FUNCTIONAL
151	40	FUNCTIONAL	182	71	FUNCTIONAL
152	41	FUNCTIONAL	183	72	FUNCTIONAL
153	42	FUNCTIONAL	184	1	CONT
154	43	FUNCTIONAL	185	2	CONT
155	44	FUNCTIONAL	186	3	CONT

		Connector J7 Pin Number	S allu Relateu	Test Alu Lamps - Contin	ueu
J7 pin	Testeidleme	Curitab position	J7 pin	Testeidleme	Cwitch position
187	4	CONT	218	35	CONT
188	5	CONT	219	36	CONT
189	6	CONT	220	37	CONT
190	7	CONT	221	38	CONT
191	8	CONT	222	39	CONT
192	9	CONT	223	40	CONT
193	10	CONT	224	41	CONT
194	11	CONT	225	42	CONT
195	12	CONT	226	43	CONT
196	13	CONT	227	44	CONT
197	14	CONT	228	45	CONT
198	15	CONT	229	46	CONT
199	16	CONT	230	47	CONT
200	17	CONT	231	48	CONT
201	18	CONT	232	49	CONT
202	19	CONT	233	50	CONT
203	20	CONT	234	51	CONT
204	21	CONT	235	52	CONT
205	22	CONT	236	53	CONT
206	23	CONT	237	54	CONT
207	24	CONT	238	55	CONT
208	25	CONT	239	56	CONT
209	26	CONT	240	57	CONT
210	27	CONT	241	58	CONT
211	28	CONT	242	59	CONT
212	29	CONT	243	60	CONT
213	30	CONT	244	61	CONT
214	31	CONT	245	62	CONT
215	32	CONT	246	63	CONT
216	33	CONT	247	64	CONT
217	34	CONT	248	65	CONT

 Table 3-2. MTS Connector J7 Pin Numbers and Related Test Aid Lamps - Continued

J7 pin			J7 pin		
number	Test aid lamp	Switch position	number	Test aid lamp	Switch position
249	66	CONT	253	70	CONT
250	67	CONT	254	71	CONT
251	68	CONT	255	72	CONT
252	69	CONT			

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3-5. Troubleshooting Wiring. The need for using the MTS test aid to isolate card cage wiring problems is indicated if, after replacing circuit cards in the system equipment, a continuity error or functional error is still displayed on the MTS. Perform the following procedure to use the MTS test aid for isolating wiring problems.

- a. Connect MTS test aid to MTS as described in paragraph 2-4.
- b. Set SS switch up.
- c. Set BCP switch down.
- d. Press LT switch and verify that all front panel indicators light.
- e. Perform test with MTS (TM 11-7010-201-12).

f. Using table 3-3, check CARD ID indicators, and verify that binary code configuration (lamp on/off conditions) matches the card type under test.

g. Observe STATE indicators: if an error is detected, STATE 7 indicator will light. 3-9)

CARD ID indicators ¹						Decimal equivalent of binary	
32	16	8	4	2	1	number	Card type
0	0	0	0	0	0	0	587102
0	0	0	0	0	1	1	587103
0	0	0	0	1	0	2	587104
0	0	0	1	0	0	4	587108
0	0	0	1	0	1	5	587110
0	0	0	1	1	0	6	587117
0	0	1	0	0	0	8	149513
0	0	1	0	0	1	9	149580,
							10281780
0	0	1	1	1	0	14	587106
0	0	1	1	1	1	15	587109
0	1	0	0	0	1	. 17	587105
0	1	0	0	1	1	19	149512,
							10281602
0	1	0	1	0	0	20	149516,
							10281606
0	1	0	1	1	0	22	149576

Table 3-3. Card Type Identification

¹ Indicator on = 1, Indicator of f = 0

h. Set DATA/FUNCTIONAL/CONT switch to FUNCTIONAL or CONT, depending on error condition observed on MTS display.

NOTE

If both FUNCTIONAL INPUT ERROR and FUNCTIONAL OUTPUT ERROR indicators on the MTS light, there is a short circuit in the input signal line. If only the FUNCTIONAL OUTPUT ERROR indicator lights, the fault is in the output signal line.

i. Check MTS test aid indicators 1 through 72 and note which indicator lights.

j. Using table 3-4, column 1 (MTS test aid lamp number), locate lamp number corresponding to indication noted in step i. On same line of table 3-4, locate pin number corresponding to appropriate circuit card assembly part number.

k. Refer to system maintenance manual to determine applicable wire list number, then to the wire list in Section VI of Chapter 5 of this manual.

		Circuit card assemblies and I/O pin numbers			
MTS test aid	Circuit card	149512-100, 149513-100, 0281602	149516-100, 149576-100, 149580-100 10281606	587102-102 thru 587106-102 587108-102 thru	
no.	TP no.	0201002	10281780	587110-102	587117-102
1	7A	13	13	10	11
2	6A	14	14	8	13
3	5A	10	10	6	6
4	4A	8	8	4	8
5	3B	5	3	5	5
6	2B	3	1	1	1
7	2A	4	4	3	4
8	ЗA	6	6	7	3
9	4B	7	5	9	7
10	5B	9	7	11	9
11	6B	11	9	13	10
12	7B	15	11	15	15
13	14A	27	25	26	22
14	13A	26	26	24	24
15	12A	24	24	22	23
16	11A	22	22	20	25
17	10A	20	20	18	20
18	9A	18	18	14	18
19	8B	17	15	17	14
20	9B	19	17	19	17
21	10B	21	19	21	19
22	11B	23	21	23	21
23	12B	25	23	25	26
24	13B	29	27	27	27
25	20A	42	42	42	38
26	19A	40	40	40	40
27	18A	38	38	38	35
28	17A	36	36	36	37
29	16A	33	34	34	36
30	15A	30	30	30	34

Table 3-4. MTS Test Aid Indicators and Related Circuit Card Pins

Table 3-4. MTS Test Aid Indicators and Related Circuit Card Pins - Continued

		С	ircuit card assemblie	es and I/O pin numbe	ers
MTS test aid lamp no.	Circuit card assy. TP no.	149512-100, 149513-100, 10281602	149516-100, 149576-100, 149580-100, 10281606, 10281780	587102-102 thru 587106-102, 587108-102 thru 587110-102	587117-102
no. 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	14B 15B 16B 17B 18B 19B 26A 25A 24A 23A 22A 21A 22A 21A 22B 23B 24B 25B 26B 27B 33A	10281602 31 34 35 37 39 41 54 52 50 47 48 46 43 45 49 51 53 55 68	10281780 29 31 33 35 37 39 56 54 52 50 48 46 41 43 45 47 49 51 68	587110-102 29 31 33 35 37 39 56 54 52 50 48 46 41 43 45 47 49 51 70	$\begin{array}{r} 587117-102 \\ 30 \\ 29 \\ 31 \\ 33 \\ 42 \\ 39 \\ 52 \\ 54 \\ 47 \\ 49 \\ 50 \\ 48 \\ 46 \\ 41 \\ 43 \\ 45 \\ 53 \\ 51 \\ 64 \end{array}$
50 51 52 53 54 55 56 57 58 59 60	32A 31A 30A 29A 28A 28B 29B 30B 31B 32B 33B	69 63 64 62 60 56 57 59 61 66 71	66 64 62 60 57 53 55 59 61 63 65	68 66 64 62 60 53 55 57 59 61 63	66 61 63 62 60 56 55 57 59 68 65

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			Circuit card assemb	lies and I/O pin num	bers
MTS test aid lamp no.	Circuit card assy. TP no.	149512-100, 149513-100, 10281602	149516-100, 149576-100, 149580-100, 10281606, 10281780	587102-102 thru 587106-102, 587108-102 thru 587110-102	587117-102
61	39B	-	79	79	79
62	38B	80	77	77	80
63	37B	79	75	75	73
64	36B	77	73	73	71
65	36A	74	74	71	78
66	34A	70	70	72	72
67	34B	73	69	65	70
68	35B	75	71	74	69
69	35A	72	72	69	74
70	37A	76	76	76	76
71	38A	78	78	78	77
72	39A		80	80	75

Table 3-4. MTS Test Aid Indicators and Related Circuit Card Pins - Continued

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CHAPTER 4

FUNCTIONAL DESCRIPTION

4-1. Introduction. This chapter provides a functional description of the MTS test aid. The functional description is presented in two levels: an overall functional description and a detailed functional description. The overall description is supported by a functional block diagram, while the detailed description is supported by schematic diagram (figure FO-2) and by wire lists provided in Chapter 5, Section VI.

4-2. Overall Functional Description. The MTS test aid functions as a display medium for the MTS (figure 4-1). The MTS test aid monitors the outputs from J7 of the MTS displayed on the MTS test aid front panel. These signals are input via the MTS test aid cable assembly and enter the MTS test aid at connector J01. During normal operation, the MTS test aid is powered by + 5v from the MTS. While the MTS test aid is being functionally tested, + 5v is provided by an auxiliary source. In either case, + 5v provides drive for the indicators and integrated circuits.

The following signals are routed through connector J01 to the lamp drivers of the circuit board assembly: state, X address, card ID, Y address, self test, data lines, enable TC, and data CK. The outputs of these lamp drivers provide ground paths for the indicators on the MTS test aid front panel. The functional error signals and continuity error signals are inverted in the hex inverters of the circuit board, and applied to the lamp drivers. The outputs of the lamp drivers provide a ground path for the appropriate indicators (data lines). The DATA/FUNCTIONAL/CONT switch selects which lamp drivers have a pull-up voltage applied to their inputs. The LT (lamp test) switch applies ground to the circuit board diode array, which provides a current path for the front panel indicators. The SCP (step clock pulse) switch provides ground to the quadruple 2-input NAND gate (quad two) circuits. The quad two output signals are routed out of the MTS test aid to the MTS. The BCP (single step clock pulse) and SS (stop on error) switches output to ground through connector JO1 to the MTS.

4-3. Detailed Functional Description. Input power (+ 5v) and ground are provided through connector JOI during normal operation on pins 256 and 258, and 257 and 259, respectively (figure FO-2 and wire lists in Chapter 5 Section VI). When the MTS test aid is being functionally tested, input power from an auxiliary + 5v source is brought in through the CAL + 5v and GND binding posts (red and black). In either case, the voltage is applied to the circuit board (AO1) power plane, which is located on the front of the circuit board. The input ground is connected to the circuit board ground plane, located on the rear of the circuit board. The + 5v and GND are available any may be picked up at the V or G pins at each of the integrated circuit socket groups. The power plane and ground plane supply the drive necessary to operate the indicators on the MTS test aid front panel. The indicators are wired so that + 5v is always on pin 2. Therefore, a logic low is required at pin 1 to enable them. Two conditions will cause the indicators to light, activating the LT (lamp test) switch, or applying a logic low from a lamp driver. When the LT switch is pressed, a ground path is provided through each diode of the nine diode arrays to pin 1 of each indicator. This lights all 108 indicators on the MTS test aid from a lamp driver, only the indicator associated with that particular driver will light. The



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Figure 4-1. MTS Test Aid Functional Block Diagram

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TM 11-7010-201-40-5/ET821-AA-MMI-050/E154 MTS/T O 31S5-2TSQ73-2-5

eight self-test signals, six card ID signals, ten state signals, six Y address signals, four X address signals, the enable TC signal, and the data CK signal all enter the MTS test aid through connector J01. Each signal is used as an input to individual lamp drivers. These lamp drivers (located on circuit board A01) are NAND gates with one active input. The other input to each of the lamp drivers is floating, and is a logic high. in the driver. Since there is only one variable signal entering these lamp drivers; the NAND gates are actually used as inverters. When the variable signal entering the gate (from J01) is a logic high, the signal leaving the gate is a logic low. The output from each of the lamp drivers is applied to pin 1 of the individual indicators. When pin 1 is a logic low, the indicator will light, as previously described.

There are 72 identical circuits on the circuit board that are controlled by the DATA/FUNCTIONAL/CONT switch (SO1). These circuits activate the 72 indicators (numbered 1 through 72) on the MTS test aid front panel. To simplify this discussion, only one of the circuits will be described in detail.

Each circuit is composed of two inverters and three lamp drivers. Three input signals from connector JO1 are used by the circuit. Two of these signals, continuity in error (J01-184) and functional in error (J01-112) are inverted. The inverted signals are used as one of the two inputs to their respective lamp drivers. The third input signal, data bit (J01-35), is not inverted but is sent directly to a lamp driver as one of its two inputs. The other input to these three lamp drivers is controlled by the DATA/FUNCTIONAL/CONT switch. This switch shorts two of its three terminals to ground. The third terminal is allowed to float, and therefore applies a pull-up voltage to the appropriate lamp driver input. This pull-up voltage is felt as a logic high by the lamp driver. Since the two pull-ups associated with the other two switch terminals are shorted to ground, a logic low is felt on the input to the applicable lamp drivers. The output of the three lamp drivers are ORed together and tied to an indicator. To light the indicator, any of the three lamp driver outputs must be a logic low. To accomplish this, the lamp driver receiving a logic high signal from the DATA/FUNCTIONAL/CONT switch must also receive a logic high on its other input terminal (from J01).

The circuit board also contains a quad 2-input NAND circuit which functions as a flip-flop. The flip-flop is controlled by the action of SCP switch S05 (step clock pulse) and is a set-reset device. The output of the flip-flop is routed out of the MTS test aid through J01-108.

SS toggle switch S03 (stop on error) provides a ground to J01-107 when in the up position. BCP toggle switch S04 (single step clock pulse) provides a ground to J01-109 when in the up position.

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CHAPTER 5

GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

Section I. INTRODUCTION

5-1. General. Maintenance of the MTS test aid is performed at three levels: Organizational, General Support, and Depot. This chapter provides instructions for general support maintenance. The maintenance instructions include troubleshooting, repair and functional test procedure. A schematic diagram is contained in figure FO-2 and wire lists are provided in Section VI to aid maintenance personnel during functional testing and troubleshooting.

5-2. Scope. General support maintenance consists of fault isolation and detailed troubleshooting of electrical and mechanical items and their removal and repair. Included in general support maintenance are wire lists and performance verification procedures for the proper functioning of the MTS test aid.

Section II. TOOLS AND EQUIPMENT

5-3. Tools and Test Equipment. Tools and test equipment required to perform the maintenance procedures given in this chapter are listed in the Maintenance Allocation Chart (MAC) in Appendix B of TM 11-7010-201-12.

5-4. Repair Parts. Repair parts authorized for use by general support maintenance personnel for the MTS test aid are listed in the Repair Parts and Special Tools List (RPSTL),. TM 11-7010-201-40P.

Section III. TROUBLESHOOTING

5-5. Introduction. This section provides the fault isolation and detailed troubleshooting procedures required to identify and correct a malfunction in the MTS Test Aid.

5-6. Troubleshooting Procedures. Troubleshooting procedures are contained in table 5-1. The troubleshooting procedures follow fault indications that may be observed while performing the functional test procedure given in Section V.

Fault indication	Probable cause	Corrective action
Ohmmeter Checks Ohmmeter checks do not give proper resistance readings.	Open or short in wiring, or SS or BCP switch is not operating properly.	Troubleshooting, repair wiring, and/or replace appropriate switch.
Main Tests When power is applied, not all the X and Y address, TC, CK, card ID, state, and self-test indicators light.	Wiring, lamp driver IC or indicator is faulty.	Perform lamp test and replace indicator if necessary; or troubleshoot, repair <i>wiring,</i> and/or replace lamp driver IC
+ 5 \pm 0.5v is not present at JO1-256 and J01-258.	Faulty wiring between red binding post and J01-256 or JO1- Binding post broken.	Troubleshoot and repair wiring. Repair/replace binding post.
+ $3.25 \pm 1.75v$ is not present at JO1- 108. When SCP switch is pressed or released, there is a bounce in the voltage.	Faulty wiring or quad two IC. Quad two IC or SCP switch is faulty.	Troubleshoot, replace wiring, and/ or replace quad two IC. Replace SCP switch or quad two IC.
All indicators on front panel do not light when LT switch is pressed. One indicator on front panel does not light when LT switch is pressed.	Faulty wiring or LT switch is not working. Faulty wiring and/or bad indicator or diode array.	Troubleshoot, repair wiring, and/or replace LT switch. Troubleshoot, repair wiring, and/or replace indicator or diode array.
All indicators on front panel do not light when DATA/FUNCTIONAL/ CONT switch SO1 is set to DATA. Any of the indicators tested by the procedure of table 5-2 do not go off.	Faulty wiring, inverter IC, lamp driver IC, switch SO1, or resistor. Faulty wiring or lamp driver IC.	Troubleshoot, repair wiring, and/or replace inverter IC, lamp driver IC, switch, or resistor. Troubleshoot, repair wiring, and/or replace lamp driver IC.
Indicators 1 through 72 do not go off when DATA/FUNCTIONAL/ CONT switch SO1 is set to FUNCTIONAL.	Faulty wiring, switch SO1, or lamp driver IC.	Troubleshoot, repair wiring, and/or replace switch SO1 or lamp driver IC.
Tested indicator does not light when inverter input is jump wired to J01-259.	Faulty wiring, inverter IC, or lamp driver IC.	Troubleshoot, repair wiring, and/or replace inverter IC or lamp driver IC.

Table 5-1. MTS Test Aid Troubleshooting
Fault indication	Probable cause	Corrective action
Indicators 1 through 72 do not go off when DATA/FUNCTIONAL/ CONT switch SO1 is set to CONT.	Faulty wiring, switch SO1, or lamp driver IC.	Troubleshoot, repair wiring, and/or replace switch SO1 or lamp driver IC.
Tested indicator does not light	Faulty wiring, inverter IC, or	Troubleshoot, repair wiring, and/or
when inverter input is jump wired to J01-259.	lamp driver IC.	replace inverter IC or lamp driver IC.

Table 5-1.	MTS Test Aid	Troubleshooting -	 Continued
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Section IV. REPAIR

5-7. Introduction. This section describes the repair instructions for the MTS test aid which consists of removal and replacement procedures for electrical and mechanical items. Repair procedures are divided into four areas: front panel repair, circuit board repair, chassis component repair, and cable assembly repair. Visual aids for the repair procedures are provided in the form of parts location diagrams. Within the repair procedures, the index number (in parentheses) of each item is included. These index numbers correspond to the index numbers on the parts location diagrams.

CAUTION

Before performing any removal or replacement procedures, ensure there are no external connections made to the MTS test aid.

5-8. Front Panel Repair. Front panel repair consists of removal and replacement procedures for the indicators, rotary switch, pushbuttons, and toggle switches. The following paragraphs describe the removal and replacement procedures for these items. Index numbers below refer to figure 5-1.

NOTE

The front panel may be removed and replaced by first removing all front panel components (paragraphs 5-9 through 5-12). With all front panel components removed, the panel may be removed by loosening and removing four screws (18) and washers (19), and loosening three knurled captive screws.



Figure 5-1. MTS Test Aid Assembly Parts Location

5-9. Indicator Removal and Replacement. (See figure 5-1.) Any of the 108 indicators (20) located on the MTS test aid front panel (17) may be removed and replaced by performing the following procedures.

a. Removal. Perform the following procedure to remove an indicator (20).

(1) Loosen three knurled captive screws securing front panel (17) to chassis (1); open front panel (17).

(2) Tag wires to be removed. Using unwrapping tool (Gardner-Denver Model 515666-30 or equivalent), unwrap and remove three wires from indicator (20).

(3) Remove nut and lockwasher securing indicator (20) to rear of front panel (17); remove indicator (20).

b. Replacement. Perform the following procedure to replace an indicator (20).

(1) Observing pin orientation, insert indicator (20) into front panel, and secure with nut and lockwasher.

NOTE

That portion of a wire termination that has been unwrapped shall not be used again. If there is sufficient unused wire, as from a service loop, the wire may be cut, re-stripped and a new wrap termination made. If not, replace the wire.

(2) Using wire wrap tool (Gardner-Denver Models 14B1, 14R, or equivalent, with bit number 507573 and sleeve number 507100 or equivalent), wrap three wires on the appropriate indicator pins as tagged.

(3) Close front panel (17) and secure to chassis (1) with three knurled captive screws.

5-10. Rotary Switch Removal and Replacement. (See figure 5-1.) Rotary switch (23) located on the MTS test aid front panel (17) may be removed and replaced by performing the following procedures.

- a. *Removal.* Perform the following procedure to remove rotary switch (23).
 - (1) Loosen two set screws securing rotary switch knob (24) to rotary switch (23), and remove knob (24).
 - (2) Loosen three knurled captive screws securing front panel (17) to chassis (1), and open front panel (17).
 - (3) Tag, unsolder, and remove four wires attached to rotary switch (23).
 - (4) Remove nut and lockwasher securing rotary switch (23) to front panel (17), and remove rotary switch (23).
- b. Replacement. Perform the following procedure to replace rotary switch (23).

(1) Install rotary switch (23) in front panel (17) and secure with nut and lockwasher. Ensure rotary switch guide pin fits in front panel hole.

(2) Install and solder four wires as tagged.

- (3) Close front panel (17) and secure to chassis (1) with three knurled captive screws.
- (4) Install knob (24) on rotary switch (23), and secure with two set screws.

5-11. Pushbutton Switch Removal and Replacement. (See figure 5-1.) Either pushbutton switch (21) located on the MTS test aid front panel (17), may be removed and replaced by performing the following procedures.

- a. Removal. Perform the following procedure to remove either of two pushbutton switches (21).
 - (1) Loosen three knurled captive screws securing front panel (17) to chassis (1) and open front panel (17).
 - (2) Tag, unsolder, and remove wires attached to pushbutton switch (21).
 - (3) Remove nut securing pushbutton switch (21) to front panel (17) and remove pushbutton switch (21).
- b. Replacement. Perform the following procedure to replace either of the two pushbutton switches (21).
 - (1) Install pushbutton switch (21) and lockwasher in front panel (17), and secure with nut.
 - (2) Install and solder wires as tagged.
 - (3) Close front panel (17) and secure to chassis (1) with three knurled captive screws.

5-12. Toggle Switch Removal and Replacement. (See figure 5-1.) Either toggle switch (22) located on the MTS test aid front panel (17) may be removed and replaced by performing the following procedure.

- a. Removal. Perform the following procedure to remove either of two toggle switches (22).
 - (1) Loosen three knurled captive screws securing front panel (17) to chassis (1) and open front panel (17).
 - (2) Tag, unsolder, and remove two wires attached to toggle switch (22).
 - (3) Remove nut securing toggle switch (22) to front panel (17) and remove toggle switch (22).
- b. Replacement. Perform the following procedure to replace either of two toggle switches (22).
 - (1) Install toggle switch (22) and lockwasher in front panel (17), and secure with nut.
 - (2) Install and solder two wires as tagged.
 - (3) Close front panel (17) and secure to chassis (1) with three knurled captive screws.

5-13. Circuit Board Repair. Circuit board repair consists of removal and replacement procedures for the circuit board and components installed on the board. The components covered are integrated circuits and the resistor adapter plug. The following paragraphs describe the removal and replacement procedures for these items. Index numbers below refer to figure 5-1, and figure 5-2.



Figure 5-2. Circuit Board Assembly Parts Location

5-14. Circuit Board Removal and Replacement. (See figure 5-1.) The circuit board (8) may be removed and replaced by performing the following procedures.

- a. *Removal.* Perform the following procedure to remove the circuit board (8).
 - (1) Remove six screws (3) securing access cover (2) to chassis (1) and remove access cover (2).

NOTE

Some external wiring connections to pins of circuit board (8) are terminated by connectors or wire wrap. The connectors slide off the circuit board pins and do not require a special removal tool. Wire wrap connections must be unwrapped using Gardner/Denver unwrapping tool model 515665-26 or equivalent.

- (2) Tag and remove connecting wires from circuit board (8).
- (3) Loosen three knurled captive screws securing front panel (17) to chassis (1) and open front panel (17).
- (4) Tag, unsolder, and remove wires from VCC lug and three ground lugs on circuit board (8).
- (5) Loosen and remove four screws (9) and washers (10) securing circuit board (8) to top of hexagonal spacers (11).
 - (6) Remove circuit board (8).
 - b. Replacement. Perform the following procedure to replace the circuit board (8).
 - (1) Install circuit board (8) to top of hexagonal spacers (11), and secure with four screws (9) and washers (10).
 - (2) Install and solder wires to VCC lug and three ground lugs, as tagged, on circuit board (8).

NOTE

Installation of wire wrap connectors does not require a special tool. Wire wrap connections must be wrapped using Gardner-Denver wire wrap tool models 14B1 or 14R, or equivalent, with bit number 506445 and sleeve number 507100 or equivalent. That portion of a wire that has been unwrapped shall not be used again. If there is sufficient unused wire, as from a service loop, the wire may be cut, restripped, and a new wrap termination made. If necessary, replace wire.

- (3) Install wires, as tagged, to circuit board (8).
- (4) Close front panel (17), and secure to chassis (1) with three knurled captive screws.
- (5) Install access cover (2) on chassis (1), and secure with six screws (3).

5-15. Integrated Circuit Removal and Replacement. (See figure 5-2.) Any of the 63 lamp drivers (2), two quad two's (3), 24 hex inverters (4), or nine diode arrays (5) may be removed and replaced by performing the following procedures.

a. *Removal.* Perform the following procedure to remove any of the integrated circuits (2, 3, 4 and 5).

CAUTION

Ensure that power is removed from the MTS test aid before removing integrated circuits.

(1) Loosen three knurled captive screws securing front panel (17, figure 5-1) to chassis and open front panel.

(2) Using Augat IC extraction tool T114-1 or equivalent, remove appropriate integrated circuit (2, 3, 4, or 5), from circuit board (1).

b. Replacement. Perform the following procedure to replace any of the integrated circuits (2, 3, 4, and 5, figure 5-2).

(1) Using Augat IC insertion tool T8136-2 or equivalent, insert integrated circuit (2, 3, 4, or 5, figure 5-2) into circuit board (7, figure 5-2) ensuring proper integrated circuit orientation.

(2) Close front panel (17, figure 5-1), and secure with three knurled captive screws.

5-16. Resistor Adapter Plug Removal and Replacement. The resistor adapter plug (7, figure 5-2) may be removed and replaced by performing the following procedures.

a. *Removal.* Perform the following procedure to remove the resistor adapter plug (7).

CAUTION

Ensure that power is removed from the MTS test aid before removing the resistor adapter plug.

(1) Loosen three knurled captive screws securing front panel (17, figure 5-1) to chassis (1) and open front panel (17).

(2) Using Augat IC extraction tool T114-1 or equivalent, remove resistor adapter plug (7).

NOTE

If it is necessary to remove a resistor (6) from resistor adapter plug (7), the resistor must be unsoldered.

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- b. *Replacement.* Perform the following procedure to replace the resistor adapter plug (7).
 - (1) Using Augat IC insertion tool T8136-2 or equivalent, insert adapter plug (7) into circuit board (1).

NOTE

If it is necessary to replace a resistor (6) in resistor adapter plug (7), the resistor (6) must be soldered to adapter plug (7).

(2) Close front panel (17, figure 5-1), and secure with three knurled captive screws.

5-17. Chassis Component Repair. Chassis component repair consists of removal and replacement procedures for all chassis-mounted components. The components covered are the binding posts, connector receptacle pins, connector receptacle, hexagonal spacers, and rubber bumpers. The following paragraphs describe the removal and replacement procedures for these items. Index numbers below refer to figure 5-1.

5-18. Binding Post Removal and Replacement. (See figure 5-1.) Either of two binding posts (6, 7) may be removed and replaced by performing the following procedures.

- a. *Removal.* Perform the following procedure to remove either of the binding posts (6, 7).
 - (1) Loosen three knurled captive screws securing front panel (17) to chassis (1), and open front panel (17).
 - (2) Tag, unsolder, and remove two wires from appropriate binding post (6, 7).
 - (3) Remove nut securing binding post (6, 7) to chassis, and remove binding posts.
- b. Replacement. Perform the following procedure to replace either of the binding posts (6, 7).
 - (1) Install binding post (6, 7) into chassis (1), and secure with nut.
 - (2) Install and solder two wires as tagged.
 - (3) Close front panel (17), and secure with three knurled captive screws.

5-19. Connector Receptacle Pin Removal and Replacement. (See figure 5-1.) The connector receptacle pins (5) may be removed and replaced by performing the following procedures.

a. Removal. Perform the following procedure to remove any of the connector receptacle pins (5).

NOTE

Insert extraction tool from mating side of connector receptacle. While inserting extraction tool, rotate it in a circular pattern.

(1) Insert extraction tool (Winchester No. 107-1012 or equivalent) into the appropriate connector pin (5) cavity.

(2) Remove connector pin (5) and attached wire from the wire side of connector receptacle (4).

NOTE

If it is necessary to remove wire from connector pin (5), cut off wire as close to pin end as possible.

b. *Replacement.* Perform the following procedure to replace any or all of the connector receptacle pins (5).

NOTE

If old connector pin has been removed, strip just enough insulation from wire to allow it to bottom out in the connector pin barrel. Insert wire into connector pin barrel until it bottoms out. Using crimp tool (Daniels AFM8, M22520/2-01 or equivalent) and positioner (Daniels K1-6-8SM or equivalent), insert pin (5) and wire into crimp tool until it bottoms out in the well of crimp tool. Squeeze handles of crimp tool until completely closed to crimp wire and pin (5).

(1) From wire side of connector receptacle, insert wire and pin (5) into appropriate connector receptacle cavity, using insertion tool (Winchester No. 107-1011 or equivalent).

NOTE

Ensure that connector pin (5) is fully seated into connector receptacle (4).

(2) Close front panel (17), and secure with three knurled captive screws.

5-20. Connector Receptacle Removal and Replacement. (See figure 5-1.) Connector receptacle (4) may be removed and replaced by performing the following procedures.

- a. Removal. Perform the following procedure to remove connector receptacle (4).
 - (1) Perform connector receptacle pin (5) removal procedure (para 5-17) for each of the connector pins (5).
 - (2) Remove four self-locking nuts and screws from connector receptacle (4) and remove receptacle.
- b. Replacement. Perform the following procedure to replace connector receptacle (4).
 - (1) Perform connector receptacle pin (5) replacement procedure (para 5-17) for each of the connector pins.

(2) Install connector receptacle (4) into chassis (1), and secure with four self-locking nuts and screws.

(3) Close front panel (17), and secure with three knurled captive screws.

5-21. Hexagonal Spacer Removal and Replacement. (See figure 5-1.) Any of the four hexagonal spacers (11) may be removed and replaced by performing the following procedures.

a. Removal. Perform the following procedure to remove a hexagonal spacer (11).

(1) Loosen three knurled captive screws securing front panel (17) to chassis (1), and open front panel (17).

(2) Loosen and remove six screws (3) securing access cover (2) to bottom of chassis (1) and remove access cover (2).

(3) Loosen and remove screws (9) and washer (10) securing circuit board (8) to top of appropriate hexagonal spacer (11).

(4) Loosen and remove flat-head screw (12) securing appropriate hexagonal spacer (11) to chassis (1) and remove spacer.

b. *Replacement.* Perform the following procedure to replace a hexagonal spacer (11).

(1) Using flat-head screw (12), secure hexagonal spacer to chassis (1).

(2) Secure circuit board (8) to top of appropriate hexagonal spacer (11), and secure with screw (9) and washer (10).

(3) Install and secure access cover (2) to bottom of chassis (1) with six screws (3).

(4) Close front panel (17), and secure with three knurled captive screws.

5-22. Rubber Bumper Removal and Replacement. (See figure 5-1.) Any of the four rubber bumpers (13) may be removed and replaced by performing the following procedures.

a. *Removal.* Perform the following procedure to remove a rubber bumper (13).

(1) Loosen three knurled captive screws securing front panel (17) to chassis (1), and open front panel (17).

(2) Loosen and remove screw (14), washer (15) and nut (16) securing rubber bumper (13) to chassis (1), and remove rubber bumper.

b. *Replacement.* Perform the following procedure to replace a rubber bumper (13).

(1) Install rubber bumper (13), and secure to chassis (1) with screw (14), washer (15) and nut (16).

(2) Close front panel (17), and secure with three knurled captive screws.

5-23. Cable Assembly Repair. Cable assembly repair consists of removal and replacement procedures for the connector plug electrical contact pins and sockets, and the connector plugs themselves. The following paragraphs

describe the removal and replacement procedures for these items. Index numbers below refer to figure 5-1.

5-24. Connector Plug Electrical Contact Pin and Socket Removal and Replacement. (See figure 5-1.) The connector plug electrical contact pins (29) and sockets (27) may be removed from cable assembly (25) and replaced by performing the following procedures.

a. *Removal.* Perform the following procedure to remove any of the pins (29) or sockets (27) from either connector plug (26 or 28).

(1) Loosen and remove four screws and two nut plates securing appropriate connector plug (26 or 28) to metal shell and hood. Also remove pins from two knurled knobs, and remove knobs from locking screw shafts.

(2) Loosen two screws of cable clamp.

(3) Slide metal shell and hood up cable (25) away from connector plug (26 or 28).

NOTE

Insert extractor tool from mating side of connector plug. While inserting extraction tool, rotate it in a circular pattern.

(4) Insert extraction tool (Winchester No. 107-1012 or equivalent) into appropriate pin (29) or socket (27) cavity.

(5) Remove pin (29) or socket (27) and attached wire from cable side of connector plug (26 or 28).

(6) To disconnect pin (29) or socket (27) from its wire, cut off wire as close to pin (29) or socket (27) as possible.

b. *Replacement*. Perform the following procedure to replace any of the connector plug electrical contact pins (29) or sockets (27).

NOTE

If old pin (29) or socket (27) has been removed, strip just enough insulation from wire to allow it to bottom out in barrel of pin (29) or socket (27). Insert wire into barrel of pin (29) or socket (27) until it bottoms out. Using crimp tool (Daniels AFM8, M22520/2-01 or equivalent) and positioner (Daniels K1-6-8SM or equivalent), insert pin (29) or socket (27) into crimp tool until it bottoms out in well of crimp tool. Squeeze handles of crimp tool until completely closed to crimp wire and pin (29) or socket (27).

(1) From wiring side of the connector plug (26 or 28), insert wire and pin (29) or socket (27) into appropriate connector plug (26 or 28) cavity, using insertion tool (Winchester No. 107-1011 or equivalent).

5-16

NOTE

Ensure that wire and pin (29) or socket (27) is fully seated into connector plug (26 or 28).

(2) Slide metal shell and hood down cable (25) until it mates with connector plug (26 or 28).

(3) Secure metal shell and hood to connector plug (26 or 28) with four screws and two nut plates.

(4) Insert two locking screw shafts into connector, and install knurled knobs using pins removed in paragraph 5-24a, step (1).

(5) Tighten two screws of cable clamp until wires are held securely.

5-25. Connector Plug Removal and Replacement. Either connector plug (26 or 28) may be removed and replaced by following the connector plug electrical contact pin (29) and socket (27) removal and replacement procedures (paragraphs 5-24a and 5-24b) for all connector plug electrical contact pins (29) or sockets (27) of appropriate connector plug (26 or 28).

Section V. PERFORMANCE VERIFICATION

5-26. Introduction. The procedure outlined in this section should be followed to ensure that the MTS test aid is functioning properly.

5-27. Functional Test Procedure. The functional test procedure includes required test equipment, initial conditions, ohmmeter checks, and main test.

- a. Required Test Equipment.
 - (1) Oscilloscope OS-261/U (NSN 6625-00-127-0079)
 - (2) Power Supply HP 6268B (NSN 6130-00-249-2748) or equivalent: 5v at 5amps.
 - (3) Digital Voltmeter AN/USM-451 (NSN 6625-00-168-0585) or equivalent.

NOTE

The HP 6268B power supply requires an operating voltage of 115v + 10%, 60 Hz, single phase.

- b. Initial Conditions.
 - (1) Turn DATA/FUNCTIONAL/CONT switch to FUNCTIONAL.
 - (2) Set SS switch to up position.
 - (3) Set BCP switch to up position.
 - (4) Turn power supply on.
 - (5) Adjust power supply to $+ 5.50 \pm 0.25v$ (no-load condition).
 - (6) Turn power supply off.
 - (7) Connect power supply to MTS test aid binding posts (CAL + 5V and GND).

c. Ohmmeter Checks.

- (1) Measure resistance between J01-107 and GND (black binding post); resistance should be less than one ohm.
- (2) Set SS switch to down position.
- (3) Measure resistance between J01-107 and GND; an open reading should be indicated.
- (4) Measure resistance between J0J-109 and GND; resistance should be less than one ohm.
- (5) Set BCP switch to down position.
- (6) Measure resistance between J0J-109 and GND; an open reading should be indicated.

(7) Measure resistance between J01-257 and GND; resistance should be less than one ohm.

(8) Measure resistance between J01-259 and GND; resistance should be less than one ohm.

d. Main Test.

(1) Turn power supply on and check that Y ADDRESS, X ADDRESS, TC, CK, SELF TEST, CARD ID, and STATE indicators light.

NOTE

Use GND binding post as ground reference for the following steps.

(2) Measure voltage at J01-256; voltage should be $+ 5 \pm 0.5v$.

(3) Measure voltage at J01-258; voltage should be $+ 5 \pm 0.5v$.

(4) Using oscilloscope, measure voltage at J01-108 for + $3.25 \pm 1.75v$. Press and hold SCP switch and check that J01-108 goes to $0 \pm 0.5v$ without any bounce. Release SCP switch and check that J01-108 goes back to + $3.25 \pm 1.75v$ without any bounce.

(5) Press LT switch and check that all front panel indicators light.

(6) Turn DATA/FUNCTIONAL/CONT switch to DATA.

(7) Check that all front panel indicators light.

(8) Perform the following test for each pin listed in table 5-2:

(a) Jumper J01-259 to J01-1, and check that all indicators except STATE 1 light.

(b) Press LT switch and check that STATE 1 indicator lights.

- (9) Turn DATA/FUNCTIONAL/CONT switch to FUNCTIONAL.
- (10) Check that indicators 1 through 72 do not light and all other indicators light.
- (11) Perform the tests shown in table 5-3 for each pin listed.
- (12) Turn DATA/FUNCTIONAL/CONT switch to OFF.
- (13) Check that indicators 1 through 72 do not light and all other indicators light.
- (14) Perform the tests shown in table 5-4 for each pin listed.
- (15) Turn off power supply.
- (16) Disconnect power supply from MTS test aid.

Jumper pin		Jumper pin	
259 to pin	All indicators light except	259 to pin	All indicators light except
1	STATE 1	32	SELF TEST 5
2	STATE 2	33	SELF TEST 6
3	STATE 3	34	SELF TEST 7
4	STATE 4	35	1
5	STATE 5	36	2
6	STATE 6	37	3
7	STATE 7	38	4
8	STATE 8	39	5
9	STATE 9	40	6
10	STATE 0	41	7
11	X ADDRESS 1	42	8
12	X ADDRESS 2	43	9
13	X ADDRESS 4	44	10
14	X ADDRESS 8	45	11
15	CARD ID 1	46	12
16	CARD ID 2	47	13
17	CARD ID 4	48	14
18	CARD ID 8	49	15
19	CARD ID 16	50	16
20	CARD ID 32	51	17
21	Y ADDRESS 1	52	18
22	Y ADDRESS 2	53	19
23	Y ADDRESS 4	54	20
24	Y ADDRESS 8	55	21
25	Y ADDRESS 16	56	22
26	Y ADDRESS 32	57	23
27	SELF TEST 0	58	24
28	SELF TEST 1	59	25
29	SELF TEST 2	60	26
30	SELF TEST 3	61	27
31	SELF TEST 4	62	28

Table 5-2. DATA Tests

Jumper pin 259 to pin	All indicators light except	Jumper pin 259 to pin	All indicators light except
63	29	86	52
64	30	87	53
65	31	88	54
66	32	89	55
67	33	90	56
68	34	91	57
69	35	92	58
70	36	93	59
71	37	94	60
72	38	95	61
73	39	96	62
74	40	97	63
75	41	98	64
76	42	99	65
77	43	100	66
78	44	101	67
79	45	102	68
80	46	103	69
81	47	104	70
82	48	105	71
83	49	106	72
84	50	110	TC
85	51	1111	СК

Table 5-2. DATA Tests - Continued

Table 5-3. FUNCTIONAL Tests

Jumper pin 259 to pin	Lights indicator	Jumper pin 259 to pin	Lights indicator				
112	1	143	32				
113	2	144	33				
114	3	145	34				
115	4	146	35				
116	5	147	36				
117	6	148	37				
118	7	149	38				
119	8	150	39				
120	9	151	40				
121	10	152	41				
122	11	153	42				
123	12	154	43				
124	13	155	44				
125	14	156	45				
126	15	157	46				
127	16	158	47				
128	17	159	48				
129	18	160	49				
130	19	161	50				
131	20	162	51				
132	21	163	52				
133	22	164	53				
134	23	165	54				
135	24	166	55				
136	25	167	56				
137	26	168	57				
138	27	169	58				
139	28	170	59				
140	29	171	60				
141	141 30		61				
142	31	173	62				

Jumper pin 259 to pin	Lights indicator	Jumper pin 259 to pin	Lights indicator
174	63	179	68
175	64	180	69
176	65	181	70
177	66	182	71
178	67	183	72

Table 5-3. FUNCTIONAL Tests - Continued

Jumper pin 259 to pin	Lights Indicator	Jumper pin 259 to pin	Lights indicator				
184	1	215	32				
185	2	216	33				
186	3	217	34				
187	4	218	35				
188	5	219	36				
189	6	220	37				
190	7	221	38				
191	8	222	39				
192	9	223	40				
193	10	224	41				
194	11	225	42				
195	12	226	43				
196	13	227	44				
197	14	228	45				
198	15	229	46				
199	16	230	47				
200	17	231	48				
201	18	232	49				
202	19	233	50				
203	20	234	51				
204	21	235	52				
205	22	236	53				
206	23	237	54				
207	24	238	55				
208	25	239	56				
209	26	240	57				
210	27	241	58				
211	28	242	59				
212	29	243	60				
213	213 30		61				
214	31	245	62				

Table 5-4. CONT Tests

Jumper pin 259 to pin	Lights indicator	Jumper pin 259 to pin	Lights indicator
246	63	251	68
247	64	252	69
248	65	253	70
249	66	254	71
250	67	255	72

Table 5-4. CONT Tests - Continued

Section VI. WIRE LISTS

5-28. Introduction. This section contains wire lists for the MTS test aid. Two wire lists are provided; the MTS test aid assembly wire list and the MTS test aid circuit board assembly wire list. The MTS test aid assembly wire list (table 5-5) contains interconnecting wiring data between the connector, front panel (figure 5-3), and circuit board assembly, and is arranged in the order of connector and pin number sequence. The MTS test aid circuit board assembly wire list (table 5-6) contains pin-to-pin wiring for the circuit board assembly, and is arranged in the order of signal designations which are given in alphanumeric sequence. Wire list entries are explained in paragraph 5-29.

5-29. Wire List Column Identification. Entries for each column of the wire lists are explained in the following paragraphs.

a. PREFIX. Not used.

b. *CONNECTOR*. Any type of terminating point, plug, receptacle, or component. Entries in table 5-6 indicate the integrated circuit on the circuit board assembly. For example,



- c. PIN. Exact terminating point of the respective connector.
- d. SH-FIG. Not used.
- e. WIRE MULTIGROUP. Not used.
- f. *WIRE CODE*. Three-digit code for wire type and gauge.
- g. WIRE COLOR. Standard RETMA color code.
- h. WIRE IDENT. Not used.
- i. SLEEVE. Not used.
- j. SPC INST. Not used.
- k. SIGNAL. Alphanumeric signal name or mnemonic which identifies each specific function.
- I. STRING SEQ. NO. Not used.
- m. SIGNAL DESCRIPTION. Description or name of a signal voltage.

0											C)									C	2	
O DS84	O 83							O 82	O 81	O 80	() 79						() 78	O 77	0 76	0 75	O 74	O 73	
 O DS24 DS24 	0 22	O 21	() 20	() 19	() 18	O 17	() 16	() 15	O 14	O 13	O 12	O 11	O 10) 9	0 8	0 7	0 6	O 5	0 4	О 3	O 2	O 1	
O O D\$48 47	0 46	() 45	() 44	() 43	O 42	O 41	() 40	O 39	O 38	O 37	O 36	O 35	O 34) 33	O 32	O 31	O 30	0 29	O 28	O 27	O 26	O 25	
O O D\$72 71	0 70	0 69	O 68	0 67	O 66	O 65	() 64	O 63	0 62	0 61	O 60	0 59	0 58	0 57	O 56	0 55	0 54	O 53	O 52	0 51	0 50	() 49	
O O DS108 107	0 7 106	() 105	O 104	O 103	() 102	O 101				($)^{\circ}$						O 90	O 89	0	O 87	O 86	O 85	
O 505	O 504		O 503		O 502					S	01		O 100	O 99	0 98	0 97	0 96	O 95	0 94	O 93	O 92	0 91	
0						(0							C)							0	

Figure 5-3. MTS Test Aid Front Panel Rear View

	FRO	4			то					WIRE						
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	S L E E V E	S P C	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	301	001	T		828	08	Γ		14E	7				HBSTIOV		STATE 1 INDUTS
	J01	002			828	12			14E	7				HBST20V		STATE 2 INPUTS
	J01	003			B29	01			14E	7			1	HBST30V		STATE 3 INPUTS
	J01	004			B29	05			14E	7				HBST40V		STATE 4 INPUTS
	J01	005			B29	08	1		14E	7				HBST50V		STATE 5 INPUTS
	J01	006			B29	12			14E	7				HBST60V		STATE 6 INPUTS
	J01	007			B30	01			14E	7				HBST70V		STATE 7 INPUTS
	J01	008			B30	05	1		14E	7				HBST80V		STATE 8 INPUTS
	101	009			830	12			148	7				HBST9UV		STATE 9 INPUTS
	301	011			C02	08			142	7				HBKB11V1		YADD-1 INDUTS
	J01	012			C02	12			14E	7				HBKB12V1		XADR-2 INDUTS
1	J01	013			C03	01			14E	7		1		HBKB13V1		XADR-4 INPUTS
l	J01	014			C03	05			14E	7		Ľ	Ł	HBKB14V1		XADR-8 INPUTS
	J01	015]		B27	01			14E	7		1		HAHAOOV		ID-1 INPUTS
	J01	016			B27	05			14E	7				HAHA 10V		ID-2 INPUTS
	J01	017			B27	08			14E	7				HAHA20V		ID-4 INPUTS
	J01	018			827	12			14E	7				HAHAJOV		ID-8 INPUTS
	J01	019			B28	01			14E	7				HAHA40V		ID-16 INPUTS
	701	020			D20 C01	05			1/12	7	1			HAHADUV		ID-32 INPUTS
	J01	022			C01	05			14E	7				HBYA20V		YADR-2 INPUTS
	J01	023			C01	08			14E	7				HBYAJOV		YADR-4 INPUTS
	J01	024			C01	12			14E	7				HBYA40V		YADR-8 INPUTS
	J01	025			C02	01			14E	7				HBYA50V		YADR-16 INPUTS
1	J01	026			C02	05			14E	7				HBYA60V		YADR-32 INPUTS
	J01	027			B25	01			14E	7				HBT190E		SELF TEST BO INPUT
	J01 701	028			B25	05			14E	7				HBT191E		SELF TEST B1 INPUT
	101	029			825	12			145	7				HBT192E		SELF TEST B2 INPUT
	.701	030			B25 B26	01			142	7		1	1	HBT200F		SELF TEST B3 INPUT
ļ	.101	032			B26	05			142	7				HBT201E		SELF TEST 84 INPUT SFLP MPCM P5 INDUM
	J01	033			B26	08			14E	7				HBT202E		SELF TEST B6 INPUT
1	J01	034			B26	12			14E	7				HBT203E		SELF TEST B7 INPUT
[J01	035			A01	01			14E	7				HADAAO		INPUT FROM MTS 1
	J01	036			A01	05			14E	7				HADABO		INPUT FROM MTS 2
	J01	037			A01	08			14B	7				HADACO		INPUT FROM MTS 3
	J01	038			A01	12			14E	7				HADADO		INPUT FROM MTS 4
	JU1 T01	039			AU2 802	01			145	7				HADAEO		INPUT FROM MTS 5
	.701	040			A02 A02	05			145	7				HADACO		INPUT FROM MTS 5
	J01	042			A02	12			14E	7		[HADAHO		INPUT FROM MTS 2
	J01	043			A03	01			14E	7		1		HADAIO		INPUT FROM MTS 9
	J01	044			A03	05			14E	7		1		HADAJO		INPUT FROM MTS 10
t I	J01	045			A03	08			14E	7		Ļ	l	HADAKO	ļļ	INPUT FROM MTS 11
	J01	046			A03	12			14E	2				HADALO		INPUT FROM MTS 12
	J01	047			A04	01			14E	7				HADAMO		INPUT FROM MTS 13
	101	048			A04	00			148	 ',				HADANO		INPUT FROM MTS 14
	JU1 J01	049			A04 A04	12			145	7				HADAPO		INFUT FROM MTS 15
	301	051			A05	01			142	7				HADAPO		INFUT FROM MTS 10 India From Mag 17
[J01	052			A05	05			14E	7				HADASO		INPUT FROM MTS 18
	J01	053			A05	08			14E	7		1		HADATO		INPUT FROM MTS 19
	J01	054			A05	12			14E	7		1		HADAUO		INPUT FROM MTS 20
1	J01	055			A06	01			14E	7				HADBAO		INPUT FROM MTS 21
1	J01	056			A06	05			14E	7				HADBBO		INPUT FROM MTS 22
	J01	057			A06	08			14E	7				HADBCO		INPUT FROM MTS 23
	JU1 701	058			AUD	12			14E	7				HADBDO		INPUT FROM MTS 24
	JUI 101	060			AU/	05			148	7				HADBEO		INPUT FROM MTS 25
	301	061			A07	0.5			140	7		1	l	HADBCO		INFUT FROM MTS 26
	J01	062			A07	12			14E	7		1		HADBHO		INPUT FROM MTS 20
	J01	063			A08	01			14E	7		1		HADBIO		INPUT FROM MTS 29
1	1		1	1						. 3		1	1	1		

Table 5-5. MTS Test Aid Assembly Wire List

	FRO	N			TO					WIRE						
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU	CODE	COLOR	IDENT	S L E E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	101	064			200	0.5	+		1/172	7		t	†			
	.101	065			A08	05			145	7				HADBIO		INPUT FROM MTS 30
1	.101	066			108	12			14E	7				HADBLO		INPUT FROM MTS 37
1	J01	067	1		A09	01			14E	7				НАПВИО		INPUT FROM MTS 33
	J01	068			A09	05			14E	7				HADBNO		INPUT FROM MTS 34
1	J01	069			A09	08			14E	7				HADBPO		INPUT FROM MTS 35
1	J01	070			A09	12			14E	7				HADBOO		INPUT FROM MTS 36
	J01	071			A10	01			14E	7				HADBRO		INPUT FROM MTS 37
	J01	072			A10	05			14E	7				HADBSO		INPUT FROM MTS 38
	J01	073			A10	08			14E	7				HADBTO	-	INPUT FROM MTS 39
1	J01	074			A10	12			14E	7				HADBUO		INPUT FROM MTS 40
	J01	075			A11	01			14E	7			1	HADBVO		INPUT FROM MTS 41
	J01	076			A11	05			14E	7				HADBWO		INPUT FROM MTS 42
	J01	077			A11	80			14E	7				HADCAO		INPUT FROM MTS 43
	101	078			A	12			146	7				HADCBO		INPUT FROM MTS 44
	101	0/9			A12	01			145	7				HADCCO		INPUT FROM MTS 45
	.101	081			A 12	0.5			145	7				HADCEO	ļ	INPUT FROM MIS 46
	J01	082			A12	12			148	7				HADCEO		INPUT FROM MTS 48
	J01	083			A13	01			14E	7				HADCGO		INPUT FROM MTS 49
	J01	084			A13	05			14E	7				HADCHO		INPUT FROM MTS 50
	J01	085			A13	08			14E	7				HADCIO		INPUT FROM MTS 51
	J01	086			A13	12			14E	7				HADCJO		INPUT FROM MTS 52
	J01	087			A14	01			14E	7				HADCKO		INPUT FROM MTS 53
	J01	088			A14	05			14E	7				HADCLO		INPUT FROM MTS 54
	J01	089			A14	08	ŀ		14E	7				HADCMO		INPUT FROM MTS 55
	J01	090			A14	12			14E	7			1	HADCNO		INPUT FROM MTS 56
	J01 701	091			A15	01			14E	7				HADCPO		INPUT FROM MTS 57
	JU1 101	092			A 1 5 A 1 5	05			145	7				HADCQO		INPUT FROM MTS 58
	.701	095			A 15	12			146	, ,				HADCRO		INPUT FROM MIS 59
	J01	095			A16	01			14E	7				HADCTO		INPUT FROM MTS 61
	J01	096			A16	05			14E	7				HADCUO		INPUT FROM MTS 62
	J01	097			A16	08			14E	7				HADCVO		INPUT FROM MTS 63
	J01	098			A16	12			14E	7				HADCWO		INPUT FROM MTS 64
	J01	099			A17	01			14E	7				HADCXO		INPUT FROM MTS 65
	J01	100			A17	05			14E	7				HADCYO		INPUT FROM MTS 66
	J01	101			A17	08			14E	7				HADCZO		INPUT FROM MTS 67
	J01	102			A17	12			14E	7				HADDAO		INPUT FROM MTS 68
	J01	103			A18	01			14E	7				HADDBO		INPUT FROM MTS 69
	301	104			A 18	05			148	7				HADDCO		INPUT FROM MTS /0
		105			A10	12			1415	7				HADDDO HADDDO		INPUT FROM MTS /]
	J01	107			s03	ON (UP			148	7				WTSSSA 1		SINGLE STEP CP
	J01	108			C28	05			14E	7				WTSSCA1		STEP CP
	J01	109			S04	ON (UP)			14E	7				WTSBCA1		BURST STEP CP
	J01	110			C03	08			14E	7				HBLAKOV		TEST CP REQD
	J01	111			C03	12		1	14E	7				HBLAFO		OK TO CK FOR ER
	J01	112			C04	14			14E	7				HCF01A		FUNCTIONAL IN ERROR
	J01	113			C04	03			14E	7				HCF02A		FUNCTIONAL IN ERROR
	J01	114			C04	05			14E	7				HCF03A		FUNCTIONAL IN ERROR
	J01	115			C04	08			14E	7				HCF04A		FUNCTIONAL IN ERROR
	JU1 TO4	110			C04	11			14E	/				HCF05A		FUNCTIONAL IN ERROR
	T01	110			C04 C05	12			14E	/ 7				HCFUBA		FUNCTIONAL IN ERROR
	301	119			C05	03			145	7				HCFO9A		FUNCTIONAL IN ERROR
	J01	120			C05	05			148	7				HCF09A		FUNCTIONAL IN ERROR
	J01	121			C05	08			14E	7				HCF10A		FUNCTIONAL IN ERROR
	J01	122			C05	11			14E	7				HCF11A		FUNCTIONAL IN ERROR
	J01	123			C05	12			14E	7				HCF12A		FUNCTIONAL IN ERROR
	J01	124			C06	14			14E	7				HCF13A		FUNCTIONAL IN ERROR
	J01	125			C06	03			14E	7				HCF14A		FUNCTIONAL IN ERROR
	J01	126			C06	05			14E	7				HCF15A		FUNCTIONAL IN ERROR

		-		I								T	T			
PREFIX	FRON	PIN	SH FIG	PREFIX	CONNECTOR	PiN	SH FIG	M G U R L O	CODE	COLOR	IDENT	S L E E	S P C	N SIGNAL	STRING SEQ.	SIGNAL DESCRIPTION
								I P				E	1			
	701	107	1		C 0 6	00	t	—	1/12	7				UCRIEN		PUNCETONAL IN PODOD
	101	128			C08	11		i	146	7				HCF17A		FUNCTIONAL IN ERROR
	.701	129		1	C06	12			14E	7				HCF18A		FUNCTIONAL IN ERROR
	J01	130		}	C07	14		1	14E	7			1	HCF19A		FUNCTIONAL IN ERROR
	J01	131			C07	03			14E	7				HCF20A		FUNCTIONAL IN ERROR
	J01'	132			C07	05	1	Į	14E	7				HCF21A		FUNCTIONAL IN ERROR
	J01	133			C07	08			14E	7				HCF22A		FUNCTIONAL IN ERROR
	J01	134			C07	11		1	14E	7		1		HCF23A		FUNCTIONAL IN ERROR
	J01	135			C07	12			14E	7				HCF24A	1	FUNCTIONAL IN ERROR
	J01	136			C08	14		ļ	14E	7				HCF25A		FUNCTIONAL IN ERROR
	J01	137			C08	03			14E	7				HCF26A		FUNCTIONAL IN ERROR
	J01	138			C08	05		Ì	14E	7				HCF27A		FUNCTIONAL IN ERROR
	J01 701	139			C08	08			14E	7		1		HCF28A		FUNCTIONAL IN ERROR
	301	140			C08	11			145	4				HCF29A		FUNCTIONAL IN ERROR
	701	141			C08 C09	12			145	7				HCF30A		FUNCTIONAL IN ERROR
	101	142			C09 C09	03			145	7				HCF32A		FUNCTIONAL IN ERROR
	.101	144			C09	05			14E	7				HCF33A	1	FUNCTIONAL IN ERROR
	J01	145			C09	08			14E	7				HCF34A		FUNCTIONAL IN ERROR
	J01	146			C09	11			14E	7				HCF35A		FUNCTIONAL IN ERROR
	J01	147			C09	12			14E	7				HCF36A		FUNCTIONAL IN ERROR
	J01	148			C10	14	1		14E	7	•	-		HCF37A		FUNCTIONAL IN ERROR
	J01	149			C10	03			14E	7				HCF38A		FUNCTIONAL IN ERROR
	J01	150			C10	05			14E	7				HCF39A		FUNCTIONAL IN ERROR
	J01	151			C10	08			14E	7				HCF40A		FUNCTIONAL IN ERROR
	J01	152			C10	11			14E	7				HCF41A		FUNCTIONAL IN ERROR
	J01	153			C10	12			14E	7				HCF42A		FUNCTIONAL IN ERROR
	JU1 701	154			C11	14			14E	7				HCF43A		FUNCTIONAL IN ERROR
	101	155			C11	05			145	4				HCF44A		FUNCTIONAL IN ERROR
	701	150			C11	05	1		145	17		ł.		HCF45A		FUNCTIONAL IN ERROR
	J01	158			C11	11			148	7				HCF47A		FUNCTIONAL IN ERROR
	J01	159			C11	12			14E	7				HCF48A		FUNCTIONAL IN ERROR
	J01	160			C12	14			14E	7				HCF49A		FUNCTIONAL IN ERROR
	J01	161			C12	03			14E	7				HCF50A		FUNCTIONAL IN ERROR
	J01	162			C12	05			14E	7				HCF51A		FUNCTIONAL IN ERROR
	J01	163)	C12	08	1		14E	7				HCF52A		FUNCTIONAL IN ERROR
	J01	164			C12	11			14E	7				HCF53A		FUNCTIONAL IN ERROR
	J01	165			C12	12			14E	7		ŀ		HCF54A		FUNCTIONAL IN ERROR
	J01	166			C13	14			14E	7				HCF55A		FUNCTIONAL IN ERROR
	J01	16/			C13	03			145					HCF56A		FUNCTIONAL IN ERROR
	701	100			C13 C12	05			145	7				HCF5/A		FUNCTIONAL IN ERROR
	.701	170			C13	11			148	7		1	1	HCF59A		FUNCTIONAL IN ERROR
	J01	171			C13	12			14E	7			1	HCF60A		FUNCTIONAL IN ERROR
	J01	172			C14	14			14E	7		1		HCF61A		FUNCTIONAL IN ERROR
	J01	173			C14	03			14E	7		1		HCF62A		FUNCTIONAL IN ERROR
	J01	174			C14	05			14E	7		1	1	HCF63A		FUNCTIONAL IN ERROR
	J01	175			C14	08			14E	7		1	1	HCF64A		FUNCTIONAL IN ERROR
	J01	176			C14	11			14E	7		ļ	ļ	HCF65A		FUNCTIONAL IN ERROR
	J01	177			C14	12			14E	7		1		HCF66A		FUNCTIONAL IN ERROR
	J01	178			C15	14			14E	7		1		HCF67A		FUNCTIONAL IN ERROR
	J01	179			C15	03			14E	7		1		HCF68A		FUNCTIONAL IN ERROR
	JU1 701	180			C15	05			14E	7			1	HCF69A		FUNCTIONAL IN ERROR
	101	181			C15	U8 11			140	<u>'</u>		1		HCF/UA		FUNCTIONAL IN ERROR
	301	183			C 15	17			145	7		1		HCF/IA		FUNCTIONAL IN ERROR
	.701	184			C16	14			142	7		1		HCC01A		CONTINUETY IN PROD
	J01	185			C16	03			14E	7				HCC02A		CONTINUITY IN ERROR
	301	186			C16	05			14E	7		ł		HCC03A		CONTINUITY IN ERROR
	J01	187			C16	08			14E	7		1	1	HCC04A		CONTINUITY IN ERROR
	J01	188			C16	11			14E	7		1	1	HCC05A		CONTINUITY IN ERROR
	J01	189			C16	12			14E	7		1	1	HCC06A		CONTINUITY IN ERROR

	FROM	л		1	 TO					WIRE						
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PłN	SH FIG	M (U) L (T)	CODI	COLOR	IDENT	S L E E V E	S P P C	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	.7.0.1	190	T	1	C 17	14	1		145	7			1	HCC07A		CONTINUITY IN ERROR
	J01	191			C17	03			148	7				HCC08A		CONTINUITY IN ERROR
	J01	192			C17	05	[14E	7				HCC09A		CONTINUITY IN ERROR
	J01	193	ł		C17	08	1		14E	7	1		1	HCC 10A		CONTINUITY IN ERROR
	J01	194			C17	11			14E	7				HCC11A		CONTINUITY IN ERROR
	J01	195			C17	12			148	7				HCC12A		CONTINUITY IN ERROR
	JU1 T01	190			C 18	03			142	17				HCC 14A		CONTINUITY IN ERROR
1	J01	198			C18	05			14	7			1	HCC15A		CONTINUITY IN ERROR
	J01	199			C18	08			14E	7				HCC16A		CONTINUITY IN ERROR
	J01	200			C18	11			14E	7			1	HCC17A		CONTINUITY IN ERROR
	J01	201			C18	12			14E	7			ł	HCC18A		CONTINUITY IN ERROR
	J01	202		ļ	C19	14			148	7		ļ		HCC19A		CONTINUITY IN ERROR
	101	203			C 19	05			140	17				HCC21A		CONTINUITY IN ERROR
	J01	205			C19	08			148	7				HCC22A		CONTINUITY IN ERROR
	J01	206			C19	11			14E	7		1		HCC23A		CONTINUITY IN ERROR
	J01	207			C19	12			14E	: 7				HCC24A		CONTINUITY IN ERROR
	J01	208			C20	14	1		14E	: 7	1		1	HCC25A		CONTINUITY IN ERROR
	J01	209			C20	03			14E	7				HCC26A		CONTINUITY IN ERROR
	J01	210			C20	05			148	7				HCC27A		CONTINUITY IN ERROR
	301	212			C20	11			140	7				HCC29A		CONTINUITY IN ERROR
	J01	213	1		C20	12	1		141	7				HCC30A		CONTINUITY IN ERROR
	J01	214			C21	14			14E	7				HCC31A		CONTINUITY IN ERROR
	J01	215			C21	03			14E	: 7				HCC32A		CONTINUITY IN ERROR
	J01	216			C21	05			14E	7				HCC33A		CONTINUITY IN ERROR
	J01	217		ļ	C21	08		ļ	148	7	ļ			HCC34A		CONTINUITY IN ERROR
	J01	218			C21	11		1	141	7				HCC35A		CONTINUITY IN ERROR
	301	220			C22	14			14	7				HCC37A		CONTINUITY IN ERROR
	J01	221	1		C22	03			141	7				HCC38A		CONTINUITY IN ERROR
	J01	222			C22	05			14E	7				HCC39A		CONTINUITY IN ERROR
1	J01	223		1	C22	08	1		148	: 7	1			HCC40A	1	CONTINUITY IN ERROR
	J01	224	1		C22	11			14E	7				HCC41A		CONTINUITY IN ERROR
	J01	225			C22	12			141	7	1			HCC42A		CONTINUITY IN ERROR
	101	220			C23	14			142	12				HCC43A		CONTINUITY IN ERROR
	.701	228			C23	05	}	ł	141	7	ł			HCC45A	}	CONTINUITY IN ERROR
	J01	229			C23	08	1		141	7				HCC46A		CONTINUITY IN ERROR
	J01	230			C23	11	1	1	141	: 7				HCC47A		CONTINUITY IN ERROR
	J01	231			C23	12			141	7				HCC48A		CONTINUITY IN ERROR
ļ	J01	232		Į	C24	14		ļ	141	7	ļ		1	HCC49A	ļ	CONTINUITY IN ERROR
	101	233		1	C24	05			141	, ' 7				HCC51A		CONTINUITY IN ERROR
	J01	235			C24	08			141	7				HCC52A		CONTINUITY (IN ERROR
	J01	236			C24	11	-	1	141	7				HCC53A		CONTINUITY IN ERROR
	J01	237			C24	12	1	ł	14E	7				HCC54A		CONTINUITY IN ERROR
	J01	238	Ì)	C25	14	1		148	: 7	1		1	HCC55A		CONTINUITY IN ERROR
	J01	239			C25	03			148	7				HCC56A		CONTINUITY IN ERROR
	101	240			C25	05			148	· / ·				HCC5/A		CONTINUITY IN ERROR
	.101	241		1	C25	11			141	1				HCC59A		CONTINUITY IN ERROR
1 .	J01	243			C25	12			141	7				HCC60A		CONTINUITY IN ERROR
	J01	244		1	C26	14			141	: 7				HCC61A		CONTINUITY IN ERROR
	J01	245			C26	03			141	: 7				HCC62A		CONTINUITY IN ERROR
	J01	246		1	C26	05			141	7				HCC63A		CONTINUITY IN ERROR
	J01	247			C26	08			141	2 7				HCC64A		CONTINUITY IN ERROR
	101	248	}	1	C26	12			141	. 7				HCC66A		CONTINUITY IN ERROR
· ·		250			C27	14			141	7				HCC67A		CONTINUITY IN ERROR
	J01	251			C27	03			141	7				HCC68A		CONTINUITY IN ERROR
	J01	252			C27	05	}		141	: 7				HCC69A		CONTINUITY IN ERROR

PHF/A OWNECTOR PH M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M <		FROM	A		I	TO					WIRE			Τ			
Doil 253 C27 06 148 7 HCC70A CONTINUTY IN EROR J01 255 C27 12 148 7 HCC71A CONTINUTY IN EROR J01 255 C27 12 148 7 HCC72A CONTINUTY IN EROR J01 257 GROUND PLANE 148 7 GND4 CONTINUTY IN EROR J01 258 GROUND PLANE 148 7 GND4 CONTINUTY IN EROR J01 259 GROUND PLANE 148 7 GND4 FURTIONAL ENABLE S01 POS-02 B24 13 148 6 TEINA FURTIONAL ENABLE S01 POS-02 B24 13 148 6 TEINA FURTIONAL ENABLE S02 1A-C GROUND 148 0 GROUND LAMP TEST GROUND S03 C GROUND 148 0 GROUND LAMP TEST GROUND S04 C GROUND	PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	SLEEVE	S P C	I N SIGNAL S	STRING SEQ. NO.	SIGNAL DESCRIPTION
JOI 255 C27 12 14E 7 HCC72A CONTINUITY IN BERGR JOI 257 GROUND PLANE 14E 7 GROUND GROUND JOI 258 GROUND PLANE 14E 7 GROUS GROUND JOI 259 GROUND PLANE 14E 7 GROUS JOI 259 GROUND PLANE 14E 7 GROUS JOI 250 ARM 50 ARM GROUND THE 6 TFIN2A CONTINUITY ENABLE S01 APG- GROUND 14E 0 GROUND LANP TEST GROUND S02 IA-C GROUND 14E 0 GROUND LANP TEST GROUND S04 C GROUND 14E 0 GROUND BURST STEP CP S05 IA-C GROUND 14E 6 SCPOGA STEP CLOCK PULSE S05 NC D25 01		J01 J01	253 254			C27 C27	08 11			14E 14E	7 7				HCC70A HCC71A		CONTINUITY IN ERROR CONTINUITY IN ERROR
J01 256 POWER PLANE 14E 7 STAP J01 258 POWER PLANE 14E 7 GNODQ J01 259 GROUND PLANE 14E 7 GNDOS J01 260 A18 13 14E 7 GNDOS S01 POS-01 A18 13 14E 6 TEINA PUNCTIONAL ENABLE S01 POS-02 B06 13 14E 6 TEINA PUNCTIONAL ENABLE S01 ARM GROUND 14E 0 GROUND LAMP TEST GROUND S03 C GROUND 14E 0 GROUND LAMP TEST GROUND S04 C GROUND 14E 0 GROUND LAMP TEST GROUND S05 1A-C GROUND 14E 0 GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND GROUND <td< td=""><td></td><td>J01</td><td>255</td><td></td><td></td><td>C27</td><td>12</td><td></td><td></td><td>14E</td><td>7</td><td></td><td></td><td></td><td>HCC72A</td><td> </td><td>CONTINUITY IN ERROR</td></td<>		J01	255			C27	12			14E	7				HCC72A		CONTINUITY IN ERROR
JOI 253 CROUND FLAME 142 7 CROUND JOI 259 GROUND FLAME 142 7 GNDGS JOI 259 GROUND FLAME 142 7 SPINIA DATA ENABLE SOI POS-01 A18 13 142 6 TTINIA PUNCTIONAL ENABLE SOI POS-02 B24 13 142 6 GROUND CONTINUTY ENABLE SOI ARM GROUND 142 0 GROUND LAMP TEST CONTINUTY ENABLE SO2 IA-C GROUND 142 6 GROUND LAMP TEST SO3 ON (UPI JOI 107 142 6 GROUND LAMP TEST SO3 ON (UPI JOI 109 142 6 SCPOON STEP CDCK SO4 ON (UPI JOI 109 142 6 SCPOON STEP CLOCK PULSE SO5 NC D25		J01	256			POWER	PLANE	1		14E	7				+5VH4		
Dit Dis Dis Dis Dis Dis Dis Dis 301 250 A18 13 142 6 TDINIA DATA ENABLE 501 POS-02 B24 13 142 6 TFIN2A FUNCTIONAL ENABLE 501 POS-03 B24 13 142 6 TCIN3A CONTINUITY ENABLE 501 ARM GROUND 142 0 GROUND LAMP TEST CONTINUITY ENABLE 502 NO D24 07 142 6 GROUND LAMP TEST GROUND 503 C GROUND 142 0 GROUND LAMP TEST GROUND LAMP TEST 504 C GROUND 142 0 GROUND LAMP TEST JUNS JUNS 505 NC D25 01 142 0 GROUND JUNS <		301	25/			DOWED	PLANE			100	7				L5VH5	1	
0.01 260 DATA DATA DATA ENABLE 501 POS-02 B06 13 14E 6 TFIN2A PUNCTIONAL ENABLE 501 POS-03 B24 13 14E 6 TFIN2A PUNCTIONAL ENABLE 501 ARM GROUND 14E 0 GROUND CONTINUITY ENABLE 502 IA-C GROUND GROUND 14E 0 GROUND LANF TEST 503 ON UP J01 107 14E 0 GROUND LANF TEST 503 C GROUND 14E 0 GROUND SINGLE STEP CP 504 ON UP J01 107 14E 0 GROUND 505 NC D25 01 14E 6 SCPOOA STEP CLOCK PULSE 505 NC D25 01 14E 6 SCPOOA STEP CLOCK PULSE 505 NC D25 01 14E <td< td=""><td></td><td>.101</td><td>259</td><td></td><td></td><td>GROUND</td><td>PLANE</td><td></td><td></td><td>14E</td><td>7</td><td></td><td></td><td></td><td>GND05</td><td></td><td></td></td<>		.101	259			GROUND	PLANE			14E	7				GND05		
b01 POS-01 A18 13 14E 6 TDINIA DATA ENABLE S01 POS-03 B24 13 14E 6 TCIN3A CONTINUITY ENABLE S01 ARM GROUND 14E 0 GROUND GROUND CONTINUITY ENABLE S02 NO D24 07 14E 0 GROUND LANF TEST S03 C GROUND D24 07 14E 0 GROUND LANF TEST S03 C GROUND 101 14E 0 GROUND LANF TEST GROUND S04 C GROUND 101 14E 0 GROUND LANF TEST BURST STEP CP S05 1A-C GROUND 14E 0 GROUND HE 0 GROUND BURST STEP CP S05 NC D25 01 14E 0 GROUND BURST STEP CP S05 NC D25 01 14E 0 GROUND BURST STEP CP S05 NC D25 01 14E 0 GROUND<		J01	260			- Choone				14E	7				SPP	ĺ	
S01 POS-02 B06 13 14E 6 TFIN2A CUNCTIONAL ENABLE S01 ARM GROUND 14E 0 GROUND CONTINUITY ENABLE S02 1A-C GROUND GROUND 14E 0 GROUND LAMP TEST (GROUND) S02 NO GROUND 14E 0 GROUND LAMP TEST (GROUND) S03 C GROUND J01 107 14E 0 GROUND LAMP TEST (GROUND) S04 C GROUND 14E 0 GROUND SINGLE STEP CP S04 C GROUND 14E 0 GROUND SINGLE STEP CDP S05 NC D25 01 14E 6 SCPOOA STEP CLOCK PULSE S05 NC D25 01 14E 6 SCPOOA STEP CLOCK PULSE S05 NC D25 01 14E 6 SCPOOA STEP CLOCK PULSE S050 NC D25 <		S01	POS-01			A18	13			14E	6				TDIN1A		DATA ENABLE
S01 POS-03 B24 13 14E 0 CONTINUEX CONTINUEY ENABLE S01 ARM GROUND 14E 0 GROUND LAMP TEST GROUND S02 NO D24 07 14E 0 GROUND LAMP TEST GROUND S03 C GROUND 14E 0 GROUND LAMP TEST GROUND S04 C GROUND 14E 0 GROUND SINGLE STEP CP S04 C GROUND 14E 0 GROUND SUSSA1 BURST STEP CP S05 NA D25 01 14E 0 GROUND SOPPE CLOCK PULSE S05 NO D25 02 14E 6 SCPOOO STEP CLOCK PULSE S05 NO D25 02 14E 6 SCPOOA STEP CLOCK PULSE S05 NO D25 02 14E 6 SCPOOA STEP CLOCK PULSE S060 10<		S01	POS-02			B06	13			14E	6				TFIN2A		FUNCTIONAL ENABLE
S01 ARM GROUND 14E 0 GROUND LAMP TEST (GROUND) S02 1A-C GROUND D24 07 14E 0 GROUND LAMP TEST (GROUND) S03 C GROUND J01 107 14E 0 GROUND LAMP TEST (GROUND) S03 ON (UP) J01 107 14E 0 GROUND SINGLE STEP CP S04 C GROUND 14E 0 GROUND SINGLE STEP CP S05 NC D25 01 14E 0 GROUND STEP CLOCK PULSE S05 NC D25 01 14E 6 SCPOON STEP CLOCK PULSE S05 NC D25 01 14E 6 SCPOON STEP CLOCK PULSE S05 NC D25 01 14E 6 SCPOON STEP CLOCK PULSE S05 NC D25 01 D4 6 SCPOON STEP CLOCK PULSE S05	1	S01	POS-03			B24	13			14E	6				TCINJA		CONTINUITY ENABLE
S02 1A-C GROUND D24 07 14E 0 GROUND LAMP TEST (GROUND) S03 C GROUND SOB GROUND 14E 0 GROUND LAMP TEST S03 C GROUND J01 107 14E 6 GROUND LAMP TEST S04 C GROUND J01 109 14E 6 GROUND BURST STEP CP S05 NC D25 01 14E 6 GROUND SCPOON STEP CLOCK PULSE S05 NC D25 01 14E 6 SCPOON STEP CLOCK PULSE S05 NC D25 01 14E 6 SCPOON STEP CLOCK PULSE Ds01 D1 D04 01 16B 4 DC02B DATA BT 02 OUT Ds03 01 D04 03 16B 4 DC03B DATA BT 06 OUT Ds04 04 16B B4 DC05B <td></td> <td>501</td> <td>ARM</td> <td></td> <td></td> <td>GROUND</td> <td></td> <td>1</td> <td></td> <td>14E</td> <td>0</td> <td></td> <td></td> <td></td> <td>GROUND</td> <td></td> <td></td>		501	ARM			GROUND		1		14E	0				GROUND		
S02 NO D24 07 14E 6 DLPTSW LAMP TEST S03 C GROUND J01 107 14E 6 GROUND SINGLE STEP CP S04 C GROUND J01 107 14E 0 GROUND SINGLE STEP CP S04 C GROUND 14E 0 GROUND BURST STEP CP S05 1A-C GROUND 14E 0 GROUND BURST STEP CLOCK PULSE S05 NC D25 0.1 14E 6 SCPOOA STEP CLOCK PULSE DS01 01 D04 01 16B 4 DFC01B DATA BIT 02 OUT DS03 01 D04 03 16B 4 DFC03B DATA BIT 02 OUT DS05 01 D04 05 16B 4 DFC05B DATA BIT 06 OUT DS06 01 D04 05 16B DFC05B DATA BIT 06 OUT DS07 01 D2		502	14-0			GROUND				14E	0			ļ	GROUND		LAMP TEST (GROUND)
S03 C GROUND 14E 0 GROUND SINGLE STEP CP S04 C GROUND 101 107 14E 6 WTSSA1 SINGLE STEP CP S04 C GROUND 109 14E 0 GROUND BURST STEP CP S05 1A-C GROUND 14E 0 GROUND STEP CLOCK PULSE S05 NO D25 02 14E 6 SCPOOO STEP CLOCK PULSE DS01 104 04 1 16B DPC01B DATA BIT 03 OUT DS02 01 D04 02 16B 4 DPC02B DATA BIT 04 OUT DS03 11 D04 02 16B 4 DPC03B DATA BIT 05 OUT DS05 01 D04 05 16B 4 DPC05B DATA BIT 05 OUT DS07 01 D24 04 16B DPC08B DATA BIT 05 OUT DS09 01 D04 05 16		S02 S02	NO		1	D24	07			14E	6				DLPTSW		LAMP TEST
S 03 C GROUND 14E 0 14E 0 FOUND S 03 ON (UP) J01 107 14E 6 WTSSSA1 SINGLE STEP CP S 04 ON (UP) J01 109 14E 6 GROUND BURST STEP CP S 05 1A-C GROUND 14E 6 SCP000 STEP CLOCK PULSE S 05 NC D 25 01 14E 6 SCP000 STEP CLOCK PULSE D 01 D 04 01 16B 4 DFC01B DATA BIT 01 OUT D 03 01 D 04 02 16B 4 DFC02B DATA BIT 02 OUT D 04 03 16B 4 DFC03B DATA BIT 05 OUT DS03 D 04 04 16B 4 DFC05B DATA BIT 07 OUT DS04 D 04 05 16B 4 DFC07B DATA BIT 09 OUT D 050 01 D 04 06 16B DFC08B DATA BIT 10 OU																	
S03 ON (UP) J01 107 14E 6 WTSSSA1 SINGLE STEP CP S04 C GROUND 14E 0 GROUND 14E 0 S05 1A-C GROUND 14E 0 GROUND STEP CLOCK PULSE S05 NC D25 01 14E 6 SCPOOO STEP CLOCK PULSE DS01 01 D04 01 16B 4 DPC01B DATA BIT 01 OUT DS02 01 D04 02 16B 4 DPC02B DATA BIT 03 OUT DS04 01 D04 02 16B 4 DPC03B DATA BIT 05 OUT DS04 01 D04 04 16B 4 DPC03B DATA BIT 05 OUT DS06 01 D04 05 16B 4 DPC05B DATA BIT 07 OUT DS06 01 D04 06 16B 4 DPC05B DATA BIT 07 OUT DS07 01 D04		S03	с			GROUND			ĺ	14E	0				GROUND		
S04 C GROUND 14E 0 GROUND 14E 0 S05 1A-C GROUND 14E 0 GROUND 14E 0 S05 NC D25 01 14E 0 SCPOOD STEP CLOCK PULSE S05 NO D25 02 14E 6 SCPOOD STEP CLOCK PULSE DS01 01 D04 02 16B 4 DFC01B DATA BIT 01 OUT DS03 01 D04 02 16B 4 DFC03B DATA BIT 02 OUT DS05 01 D04 03 16B 4 DFC03B DATA BIT 02 OUT DS05 01 D04 05 16B 4 DFC03B DATA BIT 04 OUT DS06 01 D04 06 16B 4 DFC08B DATA BIT 05 OUT DS07 01 D04 08 16B DFC08B DATA BIT 10 OUT		503	ON (UP)	}]	J01	107		ļ	14E	6				WTSSSA1		SINGLE STEP CP
SQ4 ON (UP) JO1 109 14E 6 WTSBCA1 BURST STEP CP S05 1A-C GROUND 14E 0 GROUND SCP000 STEP CLOCK PULSE S05 NC D25 01 14E 6 SCP000 STEP CLOCK PULSE S05 NC D25 02 14E 6 SCP000 STEP CLOCK PULSE DS01 01 D04 01 16B 4 DPC01B DATA BIT 01 OUT DS02 01 D04 03 16B 4 DPC03B DATA BIT 02 OUT DS04 01 D04 05 16B 4 DPC03B DATA BIT 04 OUT DS05 01 D04 05 16B 4 DPC05B DATA BIT 06 OUT DS06 01 D04 06 16B 4 DPC08B DATA BIT 07 OUT DS08 01 D04 08 16B DPC08B DATA BIT 00 DUT DS11		504	c			GROUND				14E	0				GROUND	[
S05 1A-C GROUND 14E 0 GROUND STEP CLOCK PULSE S05 NC D25 01 14E 6 SCPOO STEP CLOCK PULSE DS01 01 D04 01 16B 4 DFC01B DATA BIT 01 OUT DS02 01 D04 02 16B 4 DFC03B DATA BIT 02 OUT DS03 01 D04 03 16B 4 DFC03B DATA BIT 03 OUT DS04 01 D04 04 16B 4 DFC04B DATA BIT 04 OUT DS05 01 D04 05 16B 4 DFC05B DATA BIT 06 OUT DS07 01 D04 06 16B 4 DFC07B DATA BIT 06 OUT DS08 01 D04 06 16B 4 DFC07B DATA BIT 10 OUT DS10 D04 10 16B 4 DFC18B DATA BIT 10 OUT DS11 D04		S04	ON (UP)	1		J01	109			14E	6		1		WTSBCA1		BURST STEP CP
SO5 IAC GROUND IAE GROUND GROUND S05 NC D25 01 14E 6 SCPOOA STEP CLOCK PULSE DS01 01 D04 01 16B 4 DFC01B DATA BIT 01 OUT DS02 01 D04 02 16B 4 DFC02B DATA BIT 02 OUT DS04 01 D04 02 16B 4 DFC03B DATA BIT 02 OUT DS04 01 D04 02 16B 4 DFC03B DATA BIT 04 OUT DS05 01 D04 06 16B 4 DFC05B DATA BIT 05 OUT DS06 01 D04 06 16B 4 DFC07B DATA BIT 07 OUT DS08 01 D04 06 16B 4 DFC07B DATA BIT 07 OUT DS10 01 D04 10 16B 4 DFC18B DATA BIT 10 OUT DS11 D1 D04 12				İ						4.0-					0.000		
S05 NC D25 02 14E 6 SCP00A STP CLOCK FULSE DS01 01 D04 01 16B 4 DFC01B DATA BIT 02 OUT DS03 01 D04 02 16B 4 DFC02B DATA BIT 02 OUT DS03 01 D04 02 16B 4 DFC03B DATA BIT 02 OUT DS05 01 D04 04 16B 4 DFC05B DATA BIT 05 OUT DS05 01 D04 05 16B 4 DFC05B DATA BIT 05 OUT DS07 01 D04 06 16B 4 DFC07B DATA BIT 06 OUT DS08 01 D04 08 16B 4 DFC08B DATA BIT 00 OUT DS11 D04 08 16B 4 DFC10B DATA BIT 10 OUT DS11 D04 11 16B 4 DFC13B DATA BIT 10 OUT DS11 </td <td></td> <td>505</td> <td>IA-C</td> <td></td> <td>1</td> <td>GROUND</td> <td>0.1</td> <td></td> <td></td> <td>1415</td> <td>6</td> <td></td> <td></td> <td></td> <td>SCROOND</td> <td></td> <td>STED CLOCK DULSE</td>		505	IA-C		1	GROUND	0.1			1415	6				SCROOND		STED CLOCK DULSE
DS01 D1 D04 01 16B 4 DFC01B DATA BIT 01 OUT DS02 01 D04 02 16B 4 DFC02B DATA BIT 02 OUT DS03 01 D04 03 16B 4 DFC03B DATA BIT 03 OUT DS04 01 D04 03 16B 4 DFC03B DATA BIT 03 OUT DS05 01 D04 05 16B 4 DFC05B DATA BIT 06 OUT DS06 01 D04 06 16B 4 DFC05B DATA BIT 06 OUT DS07 01 D24 04 16B 4 DFC08B DATA BIT 07 OUT DS08 01 D04 09 16B 4 DFC08B DATA BIT 00 OUT DS10 01 D04 10 16B 4 DFC18B DATA BIT 10 OUT DS12 01 D04 12 16B 4 DFC18B DATA BIT 10 OUT <td< td=""><td></td><td>505</td><td>NO</td><td></td><td></td><td>D25</td><td>02</td><td></td><td></td><td>14E</td><td>6</td><td></td><td></td><td></td><td>SCPOOA</td><td></td><td>STEP CLOCK PULSE</td></td<>		505	NO			D25	02			14E	6				SCPOOA		STEP CLOCK PULSE
BS02 01 D04 02 16B 4 DFC02B DATA BIT 02 OUT DS03 01 D04 03 16B 4 DFC03B DATA BIT 03 OUT DS04 01 D04 05 16B 4 DFC03B DATA BIT 04 OUT DS05 01 D04 05 16B 4 DFC05B DATA BIT 06 OUT DS06 01 D04 06 16B 4 DFC07B DATA BIT 06 OUT DS07 01 D24 04 16B 4 DFC07B DATA BIT 06 OUT DS08 01 D04 08 16B 4 DFC08B DATA BIT 06 OUT DS10 01 D04 10 16B 4 DFC10B DATA BIT 10 OUT DS11 01 D04 11 16B 4 DFC13B DATA BIT 12 OUT DS13 01 D04 13 16B 4 DFC13B DATA BIT 12 OUT DS15 01		DS01	01	1		D04	01			16B	4				DFC01B		DATA BIT 01 OUT
DS03 01 D04 03 16B 4 DFC03B DATA BIT 03 OUT DS04 01 D04 04 16B 4 DFC03B DATA BIT 04 OUT DS05 01 D04 05 16B 4 DFC03B DATA BIT 05 OUT DS06 01 D04 06 16B 4 DFC06B DATA BIT 06 OUT DS07 01 D24 04 16B 4 DFC07B DATA BIT 07 OUT DS08 01 D04 08 16B 4 DFC09B DATA BIT 09 OUT DS09 01 D04 09 16B 4 DFC1B DATA BIT 10 OUT DS10 01 D04 10 16B 4 DFC1B DATA BIT 12 OUT DS14 01 D04 12 16B 4 DFC1B DATA BIT 14 OUT DS14 01 D04 13 16B 4 DFC1B DATA BIT 15 OUT DS16 01	i	DS02	01			D04	02	1		16B	4		1		DFC02B		DATA BIT 02 OUT
DS04 01 D04 04 16B 4 DFC04B DATA BIT 04 0UT DS05 01 D04 05 16B 4 DFC05B DATA BIT 05 OUT DS06 01 D04 06 16B 4 DFC05B DATA BIT 07 OUT DS07 01 D24 04 16B 4 DFC07B DATA BIT 07 OUT DS08 01 D04 08 16B 4 DFC09B DATA BIT 08 OUT DS10 01 D04 10 16B 4 DFC1B DATA BIT 10 OUT DS11 01 D04 12 16B 4 DFC1B DATA BIT 12 OUT DS14 01 D04 12 16B 4 DFC1B DATA BIT 13 OUT DS14 01 D04 13 16B 4 DFC1B DATA BIT 14 OUT DS15 01 D05 01 16B		DS03	01			D04	03			16B	4			1	DFC03B		DATA BIT 03 OUT
DS05 01 D04 05 16B 4 DFC05B DATA BIT 05 OUT DS06 01 D04 06 16B 4 DFC06B DATA BIT 06 OUT DS08 01 D04 08 16B 4 DFC07B DATA BIT 07 OUT DS09 01 D04 09 16B 4 DFC07B DATA BIT 09 OUT DS10 01 D04 09 16B 4 DFC10B DATA BIT 10 OUT DS11 01 D04 11 16B 4 DFC13B DATA BIT 12 OUT DS12 01 D04 12 16B 4 DFC13B DATA BIT 13 OUT DS13 01 D04 14 16B 4 DFC13B DATA BIT 15 OUT DS15 01 D05 02 16B 4 DFC15B DATA BIT 16 OUT DS16 01 D05 03		DS04	01			D04	04			16B	4				DFC04B		DATA BIT 04 OUT
DS06 01 D04 06 168 4 DFC05B DATA BIT 05 OUT DS07 01 D24 04 168 4 DFC07B DATA BIT 05 OUT DS08 01 D04 09 168 4 DFC07B DATA BIT 05 OUT DS09 01 D04 09 168 4 DFC09B DATA BIT 09 OUT DS10 01 D04 10 168 4 DFC10B DATA BIT 10 OUT DS11 01 D04 12 168 4 DFC12B DATA BIT 12 OUT DS12 01 D04 12 168 4 DFC13B DATA BIT 14 OUT DS14 01 D04 14 168 4 DFC14B DATA BIT 16 OUT DS15 01 D05 02 168 4 DFC17B DATA BIT 16 OUT DS17 01 D05 03 168 4 DFC18B DATA BIT 16 OUT </td <td></td> <td>DS05</td> <td>01</td> <td>1</td> <td>Į</td> <td>D04</td> <td>05</td> <td></td> <td></td> <td>16B</td> <td>4</td> <td></td> <td></td> <td></td> <td>DFC05B</td> <td></td> <td>DATA BIT 05 OUT</td>		DS05	01	1	Į	D04	05			16B	4				DFC05B		DATA BIT 05 OUT
DS07 01 D24 04 168 4 DFC08B DATA BIT 07 OUT DS08 01 D04 09 168 4 DFC08B DATA BIT 07 OUT DS09 01 D04 09 168 4 DFC08B DATA BIT 07 OUT DS10 01 D04 10 168 4 DFC08B DATA BIT 10 OUT DS11 01 D04 10 168 4 DFC18B DATA BIT 12 OUT DS12 01 D04 12 168 4 DFC18B DATA BIT 12 OUT DS13 01 D04 13 168 4 DFC18B DATA BIT 14 OUT DS15 01 D05 02 168 4 DFC18B DATA BIT 16 OUT DS16 01 D05 02 168 4 DFC18B DATA BIT 16 OUT DS17 01 D05 05 168 4 DFC19B DATA BIT 18 OUT DS20 01		DS06	01			D04	06			168	4				DFC06B		DATA BIT 06 OUT
DS09 01 D04 00 16B 4 DFC09B DATA BIT 09 OUT DS10 01 D04 10 16B 4 DFC09B DATA BIT 09 OUT DS11 01 D04 10 16B 4 DFC19B DATA BIT 10 OUT DS11 01 D04 12 16B 4 DFC12B DATA BIT 13 OUT DS13 01 D04 12 16B 4 DFC14B DATA BIT 14 OUT DS14 01 D04 14 16B 4 DFC14B DATA BIT 15 OUT DS15 01 D05 01 16B 4 DFC17B DATA BIT 17 OUT DS16 01 D05 03 16B 4 DFC17B DATA BIT 17 OUT DS18 01 D05 05 16B 4 DFC18B DATA		DSU/	01			D24 D04	04			168	4		1		DFC08B		DATA BIT 07 001
DS10 01 D04 10 16B 4 DFC10B DATA BIT 10 OUT DS11 01 D04 11 16B 4 DFC11B DATA BIT 11 OUT DS12 01 D04 12 16B 4 DFC11B DATA BIT 12 OUT DS13 01 D04 12 16B 4 DFC12B DATA BIT 13 OUT DS14 01 D04 13 16B 4 DFC13B DATA BIT 13 OUT DS15 01 D05 01 16B 4 DFC15B DATA BIT 16 OUT DS16 01 D05 02 16B 4 DFC16B DATA BIT 16 OUT DS17 01 D05 03 16B 4 DFC18B DATA BIT 17 OUT DS18 01 D05 05 16B 4 DFC20B DATA BIT 20 OUT DS20 01 D05 06 16B 4 DFC21B DATA BIT 22 OUT DS21 01		DS09	01			D04	09	1		16B	4				DFC09B		DATA BIT 09 OUT
DS11 01 D04 11 16B 4 DFC11B DATA BIT 11 OUT DS12 01 D04 12 16B 4 DFC12B DATA BIT 12 OUT DS13 01 D04 13 16B 4 DFC12B DATA BIT 12 OUT DS14 01 D04 13 16B 4 DFC13B DATA BIT 14 OUT DS15 01 D05 01 16B 4 DFC16B DATA BIT 16 OUT DS16 01 D05 02 16B 4 DFC16B DATA BIT 16 OUT DS17 01 D05 03 16B 4 DFC18B DATA BIT 10 OUT DS19 01 D05 05 16B 4 DFC20B DATA BIT 10 OUT DS20 01 D05 06 16B 4 DFC20B DATA BIT 20 OUT DS21 01 D05 08		DS10	01	1	[D04	10	1	{	16B	4		1	1	DFC10B	1	DATA BIT 10 OUT
DS12 01 D04 12 16B 4 DFC12B DATA BIT 12 OUT DS13 01 D04 13 16B 4 DFC13B DATA BIT 13 OUT DS14 01 D04 14 16B 4 DFC13B DATA BIT 13 OUT DS15 01 D05 01 16B 4 DFC18B DATA BIT 15 OUT DS16 01 D05 02 16B 4 DFC18B DATA BIT 16 OUT DS17 01 D05 03 16B 4 DFC18B DATA BIT 16 OUT DS18 01 D05 04 16B 4 DFC18B DATA BIT 10 OUT DS20 01 D05 05 16B 4 DFC20B DATA BIT 20 OUT DS21 01 D05 06 16B 4 DFC22B DATA BIT 20 OUT DS23 01 D05 10		DS11	01			D04	11			16B	4				DFC11B		DATA BIT 11 OUT
DS13 01 D04 13 16B 4 DFC13B DATA DIT 13 OUT DS14 01 D04 14 16B 4 DFC13B DATA BIT 13 OUT DS15 01 D05 01 16B 4 DFC14B DATA BIT 15 OUT DS16 01 D05 02 16B 4 DFC15B DATA BIT 16 OUT DS17 01 D05 03 16B 4 DFC17B DATA BIT 17 OUT DS18 01 D05 05 16B 4 DFC19B DATA BIT 18 OUT DS20 01 D05 06 16B 4 DFC20B DATA BIT 20 OUT DS21 01 D05 08 16B 4 DFC20B DATA BIT 20 OUT DS21 0		DS 12	01			D04	12			16B	4				DFC12B		DATA BIT 12 OUT
DS14 01 D04 14 16B 4 DFC 14B DATA BIT 14 OUT DS15 01 D05 01 16B 4 DFC 15B DATA BIT 15 OUT DS16 01 D05 02 16B 4 DFC 15B DATA BIT 16 OUT DS17 01 D05 02 16B 4 DFC 17B DATA BIT 17 OUT DS18 01 D05 03 16B 4 DFC 18B DATA BIT 19 OUT DS19 01 D05 05 16B 4 DFC 18B DATA BIT 20 OUT DS20 01 D05 06 16B 4 DFC 20B DATA BIT 21 OUT DS21 01 D05 08 16B 4 DFC 21B DATA BIT 22 OUT DS22 01 D05 10 16B 4 DFC 23B DATA BIT 24 OUT DS24 01 D05 11	1	DS13	01			D04	13			16B	4				DFC13B		DATA BIT 13 OUT
DS15 01 D05 02 16B 4 DFC15B DATA BIT 15 001 DS16 01 D05 02 16B 4 DFC15B DATA BIT 15 001 DS17 01 D05 03 16B 4 DFC17B DATA BIT 16 0UT DS18 01 D05 04 16B 4 DFC17B DATA BIT 17 0UT DS19 01 D05 05 16B 4 DFC19B DATA BIT 19 0UT DS20 01 D05 06 16B 4 DFC20B DATA BIT 20 0UT DS21 01 D05 06 16B 4 DFC21B DATA BIT 21 0UT DS22 01 D05 09 16B 4 DFC22B DATA BIT 23 0UT DS23 01 D05 10 16B 4 DFC24B DATA BIT 25 0UT DS24 01 D05 12 16B 4 DFC25B DATA BIT 26 0UT DS26 01 <	1	DS14	01			D04	14			168	4				DFC 14B		DATA BIT 14 OUT
DS 10 O 1 DO5 O 2 100 DFC 17B DATA BIT 17 OUT DS 18 01 D05 04 16B 4 DFC 17B DATA BIT 17 OUT DS 19 01 D05 05 16B 4 DFC 19B DATA BIT 18 OUT DS 20 01 D05 06 16B 4 DFC 20B DATA BIT 20 OUT DS 21 01 D05 06 16B 4 DFC 20B DATA BIT 21 OUT DS 22 01 D05 06 16B 4 DFC 21B DATA BIT 21 OUT DS 23 01 D05 08 16B 4 DFC 23B DATA BIT 23 OUT DS 24 01 D05 10 16B 4 DFC 25B DATA BIT 25 OUT DS 25 01 D05 12 16B 4 DFC 25B DATA BIT 26 OUT DS 26 01 D05 13 16B 4 DFC 26B DATA BIT 26 OUT DS 28 01 D05 14 16B 4 DFC 26B DATA BIT 29 OUT <td< td=""><td></td><td></td><td>01</td><td></td><td></td><td>D05</td><td>02</td><td></td><td></td><td>168</td><td>4</td><td></td><td></td><td></td><td>DFC 16B</td><td></td><td>DATA BIT 16 OUT</td></td<>			01			D05	02			168	4				DFC 16B		DATA BIT 16 OUT
DS18 01 D05 04 16B 4 DFC18B DATA BIT 18 OUT DS19 01 D05 05 16B 4 DFC19B DATA BIT 19 OUT DS20 01 D05 06 16B 4 DFC19B DATA BIT 20 OUT DS21 01 D05 06 16B 4 DFC20B DATA BIT 20 OUT DS22 01 D05 08 16B 4 DFC22B DATA BIT 21 OUT DS23 01 D05 10 16B 4 DFC23B DATA BIT 23 OUT DS24 01 D05 11 16B 4 DFC25B DATA BIT 26 OUT DS25 01 D05 12 16B 4 DFC25B DATA BIT 26 OUT DS26 01 D05 13 16B 4 DFC26B DATA BIT 28 OUT DS28 01 D09 01		DS 17	01			D05	03	}]	16B	4	j			DFC17B		DATA BIT 17 OUT
DS19 01 D05 05 16B 4 DFC19B DATA BIT 19 OUT DS20 01 D05 06 16B 4 DFC20B DATA BIT 20 OUT DS21 01 D05 08 16B 4 DFC20B DATA BIT 21 OUT DS22 01 D05 09 16B 4 DFC21B DATA BIT 21 OUT DS23 01 D05 09 16B 4 DFC23B DATA BIT 23 OUT DS24 01 D05 10 16B 4 DFC24B DATA BIT 24 OUT DS25 01 D05 11 16B 4 DFC25B DATA BIT 25 OUT DS26 01 D05 12 16B 4 DFC26B DATA BIT 26 OUT DS27 01 D05 13 16B 4 DFC28B DATA BIT 27 OUT DS28 01 D09 01 16B 4 DFC28B DATA BIT 28 OUT DS29 01 D09 02 16B 4 DFC30B DATA BIT 29 OUT DS	1	DS18	01	1		D05	04			16B	4	[1		DFC18B	1	DATA BIT 18 OUT
DS20 01 D05 06 16B 4 DFC20B DATA BIT 20 OUT DS21 01 D05 08 16B 4 DFC21B DATA BIT 21 OUT DS22 01 D05 09 16B 4 DFC21B DATA BIT 21 OUT DS23 01 D05 09 16B 4 DFC23B DATA BIT 23 OUT DS24 01 D05 10 16B 4 DFC24B DATA BIT 24 OUT DS25 01 D05 11 16B 4 DFC25B DATA BIT 25 OUT DS26 01 D05 12 16B 4 DFC26B DATA BIT 26 OUT DS27 01 D05 13 16B 4 DFC27B DATA BIT 26 OUT DS28 01 D05 14 16B 4 DFC28B DATA BIT 20 OUT DS29 01 D09 01 16B 4 DFC29B DATA BIT 28 OUT DS30 01 D09 02 16B 4 DFC30B DATA BIT 30 OUT DS		DS19	01		1	D05	05			16B	.4				DFC19B		DATA BIT 19 OUT
DS21 01 D05 08 16B 4 DFC21B DATA BIT 21 OUT DS22 01 D05 09 16B 4 DFC21B DATA BIT 21 OUT DS23 01 D05 10 16B 4 DFC23B DATA BIT 22 OUT DS24 01 D05 10 16B 4 DFC23B DATA BIT 23 OUT DS25 01 D05 11 16B 4 DFC25B DATA BIT 24 OUT DS25 01 D05 12 16B 4 DFC25B DATA BIT 25 OUT DS26 01 D05 12 16B 4 DFC26B DATA BIT 26 OUT DS27 01 D05 14 16B 4 DFC27B DATA BIT 27 OUT DS28 01 D09 01 16B 4 DFC29B DATA BIT 29 OUT DS29 01 D09 02 16B 4 DFC30B DATA BIT 30 OUT DS30 01 D09 03 16B 4 DFC31B DATA BIT 31 OUT DS		DS20	01	1		D05	06			16B	4				DFC20B		DATA BIT 20 OUT
DS22 01 D05 09 168 4 DFC22B DATA BIT 22 OUT DS23 01 D05 10 168 4 DFC23B DATA BIT 23 OUT DS24 01 D05 11 168 4 DFC24B DATA BIT 24 OUT DS25 01 D05 11 168 4 DFC25B DATA BIT 25 OUT DS26 01 D05 12 168 4 DFC26B DATA BIT 26 OUT DS26 01 D05 13 168 4 DFC27B DATA BIT 27 OUT DS28 01 D09 01 168 4 DFC28B DATA BIT 28 OUT DS29 01 D09 02 168 4 DFC29B DATA BIT 29 OUT DS30 01 D09 03 168 4 DFC30B DATA BIT 30 OUT DS31 01 D09 04 168 4 DFC31B DATA BIT 32 OUT DS32 01 D09 05 168 4 DFC32B DATA BIT 32 OUT		DS21	01		1	005	08		1	168	4				DFC21B		DATA BIT 21 OUT
DS23 01 D05 10 168 4 DFC23B DATA BIT 23 001 DS24 01 D05 11 168 4 DFC24B DATA BIT 25 0UT DS25 01 D05 12 168 4 DFC25B DATA BIT 25 0UT DS26 01 D05 13 168 4 DFC26B DATA BIT 26 0UT DS27 01 D05 14 168 4 DFC27B DATA BIT 26 0UT DS28 01 D05 14 168 4 DFC28B DATA BIT 26 0UT DS29 01 D09 01 168 4 DFC29B DATA BIT 28 0UT DS29 01 D09 02 168 4 DFC29B DATA BIT 29 0UT DS30 01 D09 03 168 4 DFC30B DATA BIT 30 0UT DS31 01 D09 04 168 4 DFC31B DATA BIT 32 0UT DS32 01 D09 05 168 4 DFC32B DATA BIT 32 0UT		DS22	01			D05	109			168	4				DFC22B		DATA BIT 22 OUT
DS25 01 D05 12 16B 4 DFC25B DATA BIT 25 OUT DS26 01 D05 13 16B 4 DFC25B DATA BIT 25 OUT DS27 01 D05 14 16B 4 DFC27B DATA BIT 26 OUT DS28 01 D09 01 16B 4 DFC28B DATA BIT 28 OUT DS29 01 D09 02 16B 4 DFC29B DATA BIT 29 OUT DS30 01 D09 03 16B 4 DFC30B DATA BIT 30 OUT DS31 01 D09 04 16B 4 DFC31B DATA BIT 31 OUT DS32 01 D09 05 16B 4 DFC32B DATA BIT 32 OUT		DS23	01			005	11			168	4				DFC24B		DATA BIT 24 OUT
DS26 01 D05 13 16B 4 DFC26B DATA BIT 26 OUT DS27 01 D05 14 16B 4 DFC27B DATA BIT 27 OUT DS28 01 D09 01 16B 4 DFC28B DATA BIT 26 OUT DS28 01 D09 01 16B 4 DFC28B DATA BIT 28 OUT DS29 01 D09 02 16B 4 DFC29B DATA BIT 29 OUT DS30 01 D09 03 16B 4 DFC30B DATA BIT 30 OUT DS31 01 D09 04 16B 4 DFC31B DATA BIT 31 OUT DS32 01 D09 05 16B 4 DFC32B DATA BIT 32 OUT		DS25	01			D05	12		1	16B	4		1		DFC25B		DATA BIT 25 OUT
DS27 01 D05 14 16B 4 DFC27B DATA BIT 27 OUT DS28 01 D09 01 16B 4 DFC28B DATA BIT 28 OUT DS29 01 D09 02 16B 4 DFC29B DATA BIT 29 OUT DS30 01 D09 03 16B 4 DFC30B DATA BIT 30 OUT DS31 01 D09 04 16B 4 DFC31B DATA BIT 31 OUT DS32 01 D09 05 16B 4 DFC32B DATA BIT 32 OUT		DS26	01			D05	13			16B	4				DFC26B		DATA BIT 26 OUT
DS28 01 D09 01 16B 4 DFC28B DATA BIT 28 OUT DS29 01 D09 02 16B 4 DFC29B DATA BIT 29 OUT DS30 01 D09 03 16B 4 DFC30B DATA BIT 30 OUT DS31 01 D09 04 16B 4 DFC31B DATA BIT 31 OUT DS32 01 D09 05 16B 4 DFC32B DATA BIT 32 OUT		DS27	01			D05	14			16B	4			ļ	DFC27B		DATA BIT 27 OUT
DS29 D1 D09 D2 D6B DFC29B DATA BIT 29 00T DS30 01 D09 03 16B 4 DFC30B DATA BIT 30 OUT DS31 01 D09 04 16B 4 DFC31B DATA BIT 31 OUT DS32 01 D09 05 16B 4 DFC32B DATA BIT 32 OUT		DS28	01			009	01			168	4	1			DFC28B		DATA BIT 28 OUT
DS31 01 D09 04 16B 4 DFC31B DATA BIT 31 OUT DS32 01 D09 05 16B 4 DFC32B DATA BIT 32 OUT		DS 30	01			009	03			16B	4				DFC30B		DATA BIT 30 OUT
DS32 01 D09 05 16B 4 DFC32B DATA BIT 32 OUT		DS31	01			009	04			16B	4				DFC31B		DATA BIT 31 OUT
		DS 32	01			60g	05			16B	4				DFC32B		DATA BIT 32 OUT
DS33 01 D09 06 168 0 DFC338 DATA BIT 33 OUT		DS33	01	1	1	D09	06	1		16B	4		1	1	DFC33B	1	DATA BIT 33 OUT
DS34 01 D09 08 16B 4 DFC34B DATA BIT 34 OUT		DS34	01			D09	08			16B	4				DFC34B	ļ	DATA BIT 34 OUT
DS35 01 D09 09 168 4 DFC358 DATA BIT 35 OUT		DS35	01			009	10			168	4				DECISB	1	DATA BIT 35 OUT
DS30 01 D03 10 105 4 DFC30B DATA BT 30 00T		0530	01			009	11			168	4			1	DFC37B		DATA BIT 37 OUT
DS38 01 D09 12 16B 4 DFC38B DATA BIT 38 OUT		DS38	01			D09	12			16B	4				DFC38B		DATA BIT 38 OUT

Table 5-5. MTS Test Aid Assembly Wire List - Continued

	FROM	A			то					WIRE						
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	S L E E V E	S P C	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	DS 3.9	0.1		1	D09	13			16B	4			1	DFC39B		DATA BIT 39 OUT
	DS40	01			009	14		[16B	4				DFC40B		DATA BIT 40 OUT
	DS41	01			D10	01	1		16B	4				DFC41B		DATA BIT 41 OUT
	DS42	01			D10	02	Į –	Į	16B	4		Į	l	DFC42B	1	DATA BIT 42 OUT
	DS43	01			D10	03			16B	4		1		DFC43B		DATA BIT 43 OUT
	DS44	01			D10	04	1		16B	4				DFC44B		DATA BIT 44 OUT
	DS45	01			D10	05			16B	4				DFC45B		DATA BIT 45 OUT
	DS46	01			D10	06		i i	16B	4				DFC46B		DATA BIT 46 OUT
	DS47	01	ł		D10 D10	08			169	4				DFC47B		DATA BII 47 OUT
1	1540	01	1		D10	10			168	4				DFC49B		DATA BIT 49 OUT
	DS50	01			010	11			16B	4				DFC50B		DATA BIT 50 OUT
	DS51	01			D10	12			16B	4				DFC51B		DATA BIT 51 OUT
	DS52	01		ł	10	13	l	l	16B	4			Ļ	DFC52B		DATA BIT 52 OUT
	DS53	01			D10	14			16B	4				DFC53B		DATA BIT 53 OUT
	DS54	01	1		D14	01			16B	4		ł		DFC54B		DATA BIT 54 OUT
	DS55	01			D14	02			16B	4			ļ	DFC55B		DATA BIT 55 OUT
	DS56	01			D14	03		1	168	4				DFC56B	1	DATA BIT 56 OUT
	DS57	01			D14	04		}	168	н Ц			ł	DFC58B		DATA BIT 57 OUT
	DS58	01			D14	06			16B	4				DFC59B		DATA BIT 59 OUT
	DS60	01			D14	08			16B	4				DFC60B		DATA BIT 60 OUT
	DS61	01			D14	09			16B	4				DFC61B		DATA BIT 61 OUT
	DS62	01	1	ļ	D14	10			16B	4			ļ	DFC62B		DATA BIT 62 OUT
	D\$63	01	1		D14	11			16B	4				DFC63B		DATA BIT 63 OUT
İ	DS64	01			D14	12			16B	4	1 5			DFC64B		DATA BIT 64 OUT
	DS65	01			D14	13			168	4				DFC65B		DATA BIT 65 OUT
	DS60 DS67	01			D 14	0.1			16B	ч Ц				DFC67B		DATA BIT 67 OUT
	DS68	01		1	D15	02			16B	4		1	ĺ.	DFC68B		DATA BIT 68 OUT
	DS69	01			D15	03			16B	4			-	DFC69B		DATA BIT 69 OUT
	DS70	01			D15	04			16B	4				DFC70B		DATA BIT 70 OUT
	DS71	01			D15	05			16B	4				DFC71B	1	DATA BIT 71 OUT
	DS72	01			D15	06		ĺ	16B	4				DFC72B		DATA BIT 72 OUT
	DS73	01			D15	08			16B	4			ł	DYADUI	İ	Y ADDRESS 1 OUT
1	DS/4	01			D15	10			168	4				DIADU2		Y ADDRESS 4 OUT
	DS75	01	1		D15	11			16B	4				DYAD08		Y ADDRESS 8 OUT
	DS77	01	1		D15	12	1	1	16B	4		1		DYAD16		Y ADDRESS 16 OUT
	DS78	01			D15	13	Ì		16B	4				DYAD32		Y ADDRESS 32 OUT
	DS79	01			D15	14			16B	4				DXAD01	ļ	X ADDRESS 1 OUT
	DS80	01			D19	01	ĺ		16B	4				DXAD02		X ADDRESS 2 OUT
1	DS81	01			D19	02			16B	4				DXAD04		A ADDRESS 4 OUT
1	582	01			D19	04			16B	4				DYNDOO	ļ	ENABLE TC
	DS84	01			D19	05			16B	4						DATA CLOCK
	DS85	01		1	D19	06			16B	4		1		DCID01		CARD ID 1 OUT
	DS86	01	1		D19	08			16B	4		-	-	DCID02		CARD ID 2 OUT
ļ	DS87	01	ļ		D19	09		1	16B	4			i	DCID04		CARD ID 4 OUT
	DS88	01			D19	10			16B	4			1	DCID08		CARD ID 8 OUT
	DS89	01			D19	11			16B	4				DCID16		CARD ID 16 OUT
	090	01		1	19	12		1	168	ц ц			i	DSTA01	1	STATE 1 OUT
	DS92	01			D19	14			16B	4	l i			DSTA02	i	STATE 2 OUT
	DS93	01		ł	D20	01		1	16B	4			i.	DSTA03		STATE 3 OUT
	DS94	01			D20	02			16B	4				DSTA04	1	STATE 4 OUT
	DS95	01			D20	03	Ì		16B	4				DSTA05		STATE 5 OUT
	DS96	01	ĺ		D20	04			16B	4	; ; ;		1	DSTA06		STATE 6 OUT
	DS97	01			D20	05			16B	4				DSTA07		STATE / OUT
	DS98	01			D20	00			168	4	1	-	i i	DSTAU8		STATE & UUT STATE & OUT
	05100	01			D20	09			168	4				DSTA10		STATE 10 OUT
	DS101	01			D20	10			16B	4				DSLT00		SELF TEST BO OUT
1	1	1	1	1	1	1	1	1	1			1	1	, ,		

Table 5-5. MTS Test Aid Assembly Wire List - Continued

PHTN Connection PHTN PHTNN PHTNN <th></th> <th>FROI</th> <th>4</th> <th></th> <th>[</th> <th>то</th> <th></th> <th></th> <th></th> <th></th> <th>WIRE</th> <th></th> <th>Γ</th> <th>Τ</th> <th></th> <th></th> <th></th>		FROI	4		[то					WIRE		Γ	Τ			
Ds10.0 01 D20 12 168 4 DS10.0 SELF TST B1 OUT DS104 01 D20 13 168 4 DSLT03 SELF TST B3 OUT DS105 01 D20 13 168 4 DSLT05 SELF TST B3 OUT DS106 01 D24 02 168 4 DSLT05 SELF TST B4 OUT DS107 01 D24 02 168 4 DSLT07 SELF TST B5 OUT DS107 01 D24 02 168 DELT07 SELF TST B5 OUT DS010 02 D860 02 148 2 +591 +597 DS02 02 D860 02 148 2 +591 +597 DS04 02 D860 02 148 2 +591 +597 DS05 02 148 2 +591 +597 +597 DS06 02 148 2 +591 +597 <td>PREFIX</td> <td>CONNECTOR</td> <td>PIN</td> <td>SH FiG</td> <td>PREFIX</td> <td>CONNECTOR</td> <td>PIN</td> <td>SH FIG</td> <td></td> <td>CODE</td> <td>COLOR</td> <td>IDENT</td> <td>S L E V E</td> <td>S N P S C T</td> <td>SIGNAL</td> <td>STRING SEQ. NO.</td> <td>SIGNAL DESCRIPTION</td>	PREFIX	CONNECTOR	PIN	SH FiG	PREFIX	CONNECTOR	PIN	SH FIG		CODE	COLOR	IDENT	S L E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
DB100 01 D20 12 168 4 DSLT02 SELF TEST B2 OUT DB105 01 D20 14 168 4 DSLT04 SELF TEST B3 OUT DB106 01 D24 01 166 4 DSLT04 SELF TEST B4 OUT DB106 01 D24 02 166 4 DSLT06 SELF TEST B7 OUT DB106 01 D24 02 148 2 4591 459 DB003 02 DB050 02 148 2 4591 459 DB03 02 DB050 02 148 2 4591 459 DB04 02 DB050 02 148 2 4591 459 DB05 02 D806 02 148 2 4591 459 DB06 02 DS06 02 148 2 4591 459 DB06 02 DS10 02 148		DS102	01			D20	11			16B	4				DSLT01		SELF TEST B1 OUT
b104 01 D20 13 168 4 DSLT03 SELT03 SELT05TST B3 OUT D5106 01 D24 01 168 4 DSLT05 SELF TEST B4 OUT D5106 01 D24 02 168 4 DSLT05 SELF TEST B5 OUT D501 02 DS03 02 148 2 4591 459 D501 02 DS03 02 148 2 4591 459 D503 02 DS04 02 148 2 4591 459 D504 02 DS05 02 148 2 4591 459 D505 02 DS06 02 148 2 4591 459 D506 02 DS10 02 148 2 4591 459 D511 02 DS13 02 148 2 4591 459 D510 02 148 2 4591		DS103	01			D20	12			16B	4			1	DSLT02		SELF TEST B2 OUT
Da105 01 D24 14 168 4 D51.704 SELTP44 SELT PTST B4 OUT Da106 01 D24 02 168 4 D51.706 SELP TEST B5 OUT Da106 02 D20 168 4 D51.706 SELP TEST B7 OUT Da100 02 D303 02 148 2 4591 4591 Da001 02 D503 02 148 2 4591 4597 D504 02 D505 02 148 2 4591 4597 D505 02 D506 02 148 2 4591 4597 D506 02 D506 02 148 2 4591 4597 D501 02 D512 02 148 2 4591 4597 D511 02 D512 02 148 2 4591 4597 D512 02 D512 02 148		DS104	01			D20	13			16B	4				DSLT03		SELF TEST B3 OUT
DB106 01 D24 01 166 4 DSLT05 SELF TEST B5 OUT DS106 01 D24 03 166 4 DSLT07 SELF TEST B5 OUT DS010 02 D200 03 166 4 DSLT07 SELF TEST B5 OUT DS010 02 D200 03 146 2 +501 +50 DS010 02 D803 02 146 2 +501 +50 DS030 02 D464 02 146 2 +501 +50 DS050 02 D506 02 146 2 +501 +50 DS06 02 D508 02 D608 02 146 2 +501 +50 DS10 02 D614 02 146 2 +501 +50 DS110 02 D614 02 146 2 +501 +50 DS13 02 D616 02 <td></td> <td>DS105</td> <td>01</td> <td></td> <td></td> <td>D20</td> <td>14</td> <td></td> <td>1</td> <td>16B</td> <td>4</td> <td></td> <td></td> <td></td> <td>DSLT04</td> <td></td> <td>SELF TEST B4 OUT</td>		DS105	01			D20	14		1	16B	4				DSLT04		SELF TEST B4 OUT
DB10/0 D1 D24 03 168 PSLT06 DSLT07 DELF TEST BG OUT DS100 D24 03 168 4 DS100 DSLT06 DSLT TST BG OUT DS01 02 DS03 02 148 2 +5V1 +5V DS03 02 DS04 02 148 2 +5V1 +5V DS04 02 DS05 02 DS06 02 148 2 +5V1 +5V DS06 02 DS10 02 148 2 +5V1 +5V DS10 02 DS11 02 148 2 +5V1 +5V DS10 02 DS11 02 <td< td=""><td></td><td>DS106</td><td>01</td><td></td><td></td><td>D24</td><td>01</td><td></td><td></td><td>16B</td><td>4</td><td></td><td></td><td></td><td>DSLT05</td><td></td><td>SELF TEST B5 OUT</td></td<>		DS106	01			D24	01			16B	4				DSLT05		SELF TEST B5 OUT
Data of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of a bit of		DS107	01			D24	02			16B	4				DSLT06		SELF TEST B6 OUT
Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab Lab <thlab< th=""> <thlab< th=""> <thlab< th=""></thlab<></thlab<></thlab<>		DS108	01			DZ4	03			168	4				DSLT07		SELF TEST B7 OUT
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111 <th1< th="">11111<th1< td=""><td> </td><td>0301</td><td>02</td><td></td><td></td><td>DS02</td><td>02</td><td></td><td></td><td>1/10</td><td>2</td><td></td><td></td><td></td><td>+5VI</td><td></td><td>+5V</td></th1<></th1<>		0301	02			DS02	02			1/10	2				+5VI		+5V
B B B B B B B B B B B B B B B B B B B		DS02	02			DS03	02			148	2				+571		+5V
DB 04 02 DB 05 02 14E 2 + \$Y1 + \$Y DB 05 02 DB 06 02 DB 07 02 14E 2 + \$Y1 + \$Y DB 06 02 DB 07 02 14E 2 + \$Y1 + \$Y DB 07 02 DB 08 02 DB 07 02 14E 2 + \$Y1 + \$Y DB 07 02 DB 11 02 14E 2 + \$Y1 + \$Y DB 10 02 DB 11 02 14E 2 + \$Y1 + \$Y DB 11 02 DB 13 02 14E 2 + \$Y1 + \$Y DB 13 02 DB 14 02 DB 14 02 DB 15 02 14E 2 + \$Y1 + \$Y DB 16 02 DB 18 D2 DS 14 2		DS03	02			DS04	02			14E	2				+5V1		+5V
DS05 02 DS06 02 14E 2 +5V1 +5V DS07 02 DS08 02 14E 2 +5V1 +5V DS08 02 DS09 02 14E 2 +5V1 +5V DS09 02 DS10 02 14E 2 +5V1 +5V DS10 02 DS11 02 14E 2 +5V1 +5V DS11 02 DS12 02 14E 2 +5V1 +5V DS13 02 DS14 02 14E 2 +5V1 +5V DS14 02 DS16 02 14E 2 +5V1 +5V DS16 02 DS16 02 14E 2 +5V1 +5V DS16 02 DS18 02 HE 2 +5V1 +5V DS20 D2 DS20 02 14E 2 +5V1 +5V		DS04	02			DS05	02			14E	2				+5V1		+5V
D B 06 02 D 80 7 02 1 8 8 2 + 5 1 + 5 V D 80 8 02 D 80 9 02 1 8 8 2 + 5 V1 + 5 V D 80 9 02 D 81 0 02 1 8 8 2 + 5 V1 + 5 V D 81 0 02 D 81 1 02 1 8 8 2 + 5 V1 + 5 V D 81 0 02 D 81 1 02 1 8 8 2 + 5 V1 + 5 V D 81 0 02 D 81 4 02 1 8 8 2 + 5 V1 + 5 V D 81 4 02 D 81 5 02 1 8 8 2 + 5 V1 + 5 V D 81 6 02 D 81 7 02 1 8 8 2 + 5 V1 + 5 V D 81 8 02 D 81 9 02 1 8 8 2 + 5 V1 + 5 V D 82 0 02 D 82 0 02 1 8 8 2 + 5 V1 + 5 V D 82 0 02 D 82 0		DS05	02			DS06	02			14E	2				+5V1	Ì	+5V
B807 02 D808 02 18E 2 +5V1 +5V D809 02 D810 02 18E 2 +5V1 +5V D810 02 D811 02 18E 2 +5V1 +5V D810 02 D811 02 18E 2 +5V1 +5V D812 02 D813 02 18E 2 +5V1 +5V D814 02 D816 02 18E 2 +5V1 +5V D814 02 D816 02 18E 2 +5V1 +5V D816 02 D817 02 D818 02 18E 2 +5V1 +5V DS18 02 D820 02 18E 2 +5V1 +5V DS21 02 D821 02 18E 2 +5V1 +5V DS23 02 D824 02 18E 2 <		DS06	02			DS07	02			14E	2				+5V1		+5V
DS08 02 DS09 02 14E 2 +5V1 +5V DS09 02 DS10 02 14E 2 +5V1 +5V DS10 02 DS11 02 14E 2 +5V1 +5V DS12 02 DS13 02 14E 2 +5V1 +5V DS12 02 DS15 02 14E 2 +5V1 +5V DS14 02 DS17 02 14E 2 +5V1 +5V DS16 02 DS17 02 14E 2 +5V1 +5V DS16 02 DS19 02 14E 2 +5V1 +5V DS18 02 DS21 02 14E 2 +5V1 +5V DS20 02 DS23 02 14E 2 +5V1 +5V DS24 02 DS48 02 14E 2 +5V1 +5V <td></td> <td>DS07</td> <td>02</td> <td></td> <td></td> <td>DS08</td> <td>02</td> <td></td> <td></td> <td>14E</td> <td>2</td> <td></td> <td></td> <td></td> <td>+5V1</td> <td></td> <td>+5V</td>		DS07	02			DS08	02			14E	2				+5V1		+5V
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		DS08	02			DS09	02			14E	2				+5V1		+5V
DS 11 $D2$ $DS 11$ $D2$ TSV TSV TSV $DS 12$ $D2$ $DS 13$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 13$ $Q2$ $DS 14$ $Q2$ $DS 14$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 14$ $Q2$ $DS 15$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 15$ $Q2$ $DS 16$ $Q2$ $DS 17$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 16$ $Q2$ $DS 19$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 18$ $Q2$ $DS 20$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 20$ $Q2$ $DS 21$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 21$ $Q2$ $DS 22$ $Q2$ $DS 23$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 22$ $Q2$ $DS 23$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 24$ $Q2$ $DS 48$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 25$ $Q2$ $DS 24$ $Q2$ $DS 24$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 25$ $Q2$ $DS 24$ $Q2$ $DS 24$ $Q2$ $DS 24$ $Q2$ $DS 24$ $DS 27$ $Q2$ $DS 24$ $Q2$ $DS 24$ $Q2$ $DS 24$ $Q2$ $DS 28$ $Q2$ $DS 23$ $Q2$ $14E$ 2 $+5V1$ $+5V$ $DS 29$ $Q2$ $DS 24$ $Q2$ $14E$ 2	Ì	DS09 DE10	02			DS10	02			14E	2				+5V1		+5V
DS 12 DS 12 DS 14 DS 15 DS 14 DS 15 DS 15 DS 15 DS 15 DS 15 DS 16 DS 15 DS 16 DS 17 DS 16 DS 17 DS 16 DS 17 DS 18 DS 17 DS 20 DS 14 DS 2 14E Z +5V1 +5V DS 19 DS 20 DS 21 DS 21 DS 21 DS 21 DS 22 DS 21 DS 22 DS 21 DS 22 DS 21 DS 22 DS 22 14E 2 +5V1 +5V DS 25 DS 20 DS 24 D2 +5V1 +5V DS 25 DS 20 DS 24 D2 14E 2 +5V1 +5V DS 25 DS 20 DS 26 D2 14E 2 +5V1 +5V DS 26 DS 28 D2 DS 27 <td></td> <td>DS 10 DS 11</td> <td>02</td> <td></td> <td></td> <td>רכע 12מ</td> <td>02</td> <td></td> <td></td> <td>145</td> <td>2</td> <td></td> <td></td> <td></td> <td>+5V1</td> <td></td> <td>+5V</td>		DS 10 DS 11	02			רכע 12מ	02			145	2				+5V1		+5V
DS13 O2 DS14 O2 DS2 SV SV DS14 O2 DS15 O2 DS2 SV SV DS15 O2 DS16 O2 DS16 O2 SV SV DS15 O2 DS16 O2 DS17 O2 DS17 SV DS17 O2 DS18 O2 DS2 SV SV SV DS17 O2 DS2 DS2 SV SV SV DS18 O2 DS2 DS2 SV SV SV DS20 O2 DS21 O2 DS2 SV SV SV DS21 O2 DS2 O2 DS2 SV SV SV DS21 O2 DS2 O2 DS2 SV SV SV DS22 O2 DS28 O2 DS2 SV SV SV DS25 O2 DS28 O2	1	DS 12	02			DS 12	02			148	2				+5V1		+57
DS14 02 DS15 02 14E 2 +SV1 +SV DS15 02 DS17 02 14E 2 +SV1 +SV DS16 02 DS17 02 DS17 02 +SV1 +SV DS18 02 DS17 02 DS18 02 +SV1 +SV DS18 02 DS17 02 HE 2 +SV1 +SV DS19 02 DS20 02 14E 2 +SV1 +SV DS21 02 DS21 02 14E 2 +SV1 +SV DS23 02 DS24 02 14E 2 +SV1 +SV DS25 02 DS26 02 14E 2 +SV1 +SV DS26 02 DS27 02 14E 2 +SV1 +SV DS26 02 DS27 02 14E 2 +SV1 +SV <		DS13	02			DS14	02			14E	2				+5V1		+5V
DS1502DS160214E2 $+5y1$ $+5y$ DS1602DS1702DS180214E2 $+5y1$ $+5y$ DS1802DS190214E2 $+5y1$ $+5y$ $+5y$ DS1802DS20D214E2 $+5y1$ $+5y$ DS2002DS21D214E2 $+5y1$ $+5y$ DS2102DS21D214E2 $+5y1$ $+5y$ DS2102DS220214E2 $+5y1$ $+5y$ DS2102DS240214E2 $+5y1$ $+5y$ DS2302DS2402DS480214E2 $+5y1$ $+5y$ DS2502DS260214E2 $+5y1$ $+5y$ $+5y$ DS2602DS2702DS280214E2 $+5y1$ $+5y$ DS2802DS290214E2 $+5y1$ $+5y$ DS2302DS330214E2 $+5y1$ $+5y$ DS3102DS330214E2 $+5y1$ $+5y$ DS3502DS360214E2 $+5y1$ $+5y$ DS3402DS360214E2 $+5y1$ $+5y$ DS3502DS360214E2 $+5y1$ $+5y$ DS3602DS360214E2 $+5y1$ $+5y$ <td></td> <td>DS14</td> <td>02</td> <td></td> <td></td> <td>DS15</td> <td>02</td> <td></td> <td></td> <td>14E</td> <td>2</td> <td></td> <td></td> <td></td> <td>+5V1</td> <td></td> <td>+5V</td>		DS14	02			DS15	02			14E	2				+5V1		+5V
DS1602DS170214E2 $+5v1$ $+5v$ DS1702DS180214E2 $+5v1$ $+5v$ DS1802DS190214E2 $+5v1$ $+5v$ DS1902DS200214E2 $+5v1$ $+5v$ DS2002DS210214E2 $+5v1$ $+5v$ DS2102DS230214E2 $+5v1$ $+5v$ DS2102DS230214E2 $+5v1$ $+5v$ DS2402DS240214E2 $+5v1$ $+5v$ DS2502DS260214E2 $+5v1$ $+5v$ DS2602DS270214E2 $+5v1$ $+5v$ DS2702DS280214E2 $+5v1$ $+5v$ DS2602DS290214E2 $+5v1$ $+5v$ DS2802DS290214E2 $+5v1$ $+5v$ DS3002DS310214E2 $+5v1$ $+5v$ DS3102DS330214E2 $+5v1$ $+5v$ DS3302DS360214E2 $+5v1$ $+5v$ DS3302DS360214E2 $+5v1$ $+5v$ DS3402DS360214E2 $+5v1$ $+5v$ DS3402DS360214E2 $+5v1$		DS 15	02			DS 16	02			14E	2				+571		+5V
DS1702DS180214E2+5v1+5vDS1802DS190214E2+5v1+5vDS1902DS200214E2+5v1+5vDS2102DS220214E2+5v1+5vDS2102DS230214E2+5v1+5vDS2102DS230214E2+5v1+5vDS2302DS240214E2+5v1+5vDS2402DS480214E2+5v1+5vDS2502DS490214E2+5v1+5vDS2502DS280214E2+5v1+5vDS2602DS290214E2+5v1+5vDS2802DS290214E2+5v1+5vDS2902DS310214E2+5v1+5vDS3102DS330214E2+5v1+5vDS3402DS350214E2+5v1+5vDS3602DS370214E2+5v1+5vDS3602DS380214E2+5v1+5vDS3602DS380214E2+5v1+5vDS3902DS380214E2+5v1+5vDS3902DS440214E </td <td></td> <td>DS16</td> <td>02</td> <td></td> <td></td> <td>DS17</td> <td>02</td> <td></td> <td></td> <td>14E</td> <td>2</td> <td></td> <td></td> <td></td> <td>+5V1</td> <td></td> <td>+5V</td>		DS16	02			DS17	02			14E	2				+5V1		+5V
DS 1802DS 190214E2 $+5y1$ $+5y$ DS 1002DS 210214E2 $+5y1$ $+5y$ DS 2102DS 210214E2 $+5y1$ $+5y$ DS 2102DS 210214E2 $+5y1$ $+5y$ DS 2202DS 230214E2 $+5y1$ $+5y$ DS 2402DS 240214E2 $+5y1$ $+5y$ DS 2502DS 260214E2 $+5y1$ $+5y$ DS 2502DS 260214E2 $+5y1$ $+5y$ DS 2502DS 270214E2 $+5y1$ $+5y$ DS 2602DS 270214E2 $+5y1$ $+5y$ DS 2802DS 290214E2 $+5y1$ $+5y$ DS 2902DS 2014E2 $+5y1$ $+5y$ DS 3102DS 310214E2 $+5y1$ $+5y$ DS 3302DS 340214E2 $+5y1$ $+5y$ DS 3402DS 3602DS 360214E2 $+5y1$ $+5y$ DS 3502DS 360214E2 $+5y1$ $+5y$ DS 3802DS 390214E2 $+5y1$ $+5y$ DS 3802DS 390214E2 $+5y1$ $+5y$ DS 440214E <t< td=""><td></td><td>DS17</td><td>02</td><td></td><td></td><td>DS 18</td><td>02</td><td></td><td></td><td>14E</td><td>2</td><td></td><td></td><td></td><td>+5V1</td><td></td><td>+5V</td></t<>		DS17	02			DS 18	02			14E	2				+5V1		+5V
DS 1902DS 200214 B2 $+5V1$ $+5V$ DS 2102DS 220214 E2 $+5V1$ $+5V$ DS 2202DS 220214 E2 $+5V1$ $+5V$ DS 2302DS 240214 E2 $+5V1$ $+5V$ DS 2402DS 240214 E2 $+5V1$ $+5V$ DS 2502DS 260214 E2 $+5V1$ $+5V$ DS 2502DS 260214 E2 $+5V1$ $+5V$ DS 2502DS 260214 E2 $+5V1$ $+5V$ DS 2602DS 2702DS 280214 E2 $+5V1$ DS 2702DS 280214 E2 $+5V1$ $+5V$ DS 2802DS 200214 E2 $+5V1$ $+5V$ DS 2902DS 300214 E2 $+5V1$ $+5V$ DS 3002DS 310214 E2 $+5V1$ $+5V$ DS 3102DS 310214 E2 $+5V1$ $+5V$ DS 3402DS 350214 E2 $+5V1$ $+5V$ DS 3802DS 390214 E2 $+5V1$ $+5V$ DS 3802DS 390214 E2 $+5V1$ $+5V$ DS 3402DS 390214 E2 $+5V1$ $+5V$ DS 4402 <td>1</td> <td>DS18</td> <td>02</td> <td></td> <td></td> <td>DS 19</td> <td>02</td> <td></td> <td></td> <td>14E</td> <td>2</td> <td></td> <td></td> <td></td> <td>+5V1</td> <td></td> <td>+5V</td>	1	DS18	02			DS 19	02			14E	2				+5V1		+5V
D 52.0D 22D 22D 22D 22D 24P 57.1 $+57.1$ D 52.20.2D 52.30.214E2 $+57.1$ $+57.1$ D 52.30.2D 52.40.214E2 $+57.1$ $+57.1$ D 52.40.2D 52.40.214E2 $+57.1$ $+57.1$ D 52.50.2D 52.60.214E2 $+57.1$ $+57.1$ D 52.60.2D 52.60.214E2 $+57.1$ $+57.1$ D 52.60.2D 52.70.214E2 $+57.1$ $+57.1$ D 52.60.2D 52.80.214E2 $+57.1$ $+57.1$ D 52.80.2D 52.90.214E2 $+57.1$ $+57.1$ D 52.80.2D 53.00.214E2 $+57.1$ $+57.1$ D 53.00.2D 53.10.214E2 $+57.1$ $+57.1$ D 53.10.2D 53.10.214E2 $+57.1$ $+57.1$ D 53.40.2D 53.60.214E2 $+57.1$ $+57.1$ D 53.60.2D 53.70.214E2 $+57.1$ $+57.1$ D 53.60.2D 53.70.214E2 $+57.1$ $+57.1$ D 53.60.2D 53.90.214E2 $+57.1$ $+57.1$ D 53.80.2D 53.90.214E2 $+57.1$ $+57.1$ D 53.80.2D 53.9 <td></td> <td>DS 19</td> <td>02</td> <td></td> <td></td> <td>DS20</td> <td>02</td> <td></td> <td></td> <td>14E</td> <td>2</td> <td></td> <td></td> <td></td> <td>+5V1</td> <td></td> <td>+5V</td>		DS 19	02			DS20	02			14E	2				+5V1		+5V
DS21DS22D22D22D322D22THE 2 $+5V1$ $+5V$ DS2302DS240214E2 $+5V1$ $+5V$ DS2402DS480214E2 $+5V1$ $+5V$ DS2502DS490214E2 $+5V1$ $+5V$ DS2602DS490214E2 $+5V1$ $+5V$ DS2602DS490214E2 $+5V1$ $+5V$ DS2602DS290214E2 $+5V1$ $+5V$ DS2702DS290214E2 $+5V1$ $+5V$ DS2802DS290214E2 $+5V1$ $+5V$ DS2902DS310214E2 $+5V1$ $+5V$ DS3102DS310214E2 $+5V1$ $+5V$ DS3202DS340214E2 $+5V1$ $+5V$ DS3402DS340214E2 $+5V1$ $+5V$ DS3502DS360214E2 $+5V1$ $+5V$ DS3602DS380214E2 $+5V1$ $+5V$ DS3502DS360214E2 $+5V1$ $+5V$ DS3602DS400214E2 $+5V1$ $+5V$ DS3902DS400214E $2+5V1+5VDS4102DS430214E2$		DS20 DS21	02			DS21	02			148	2				+5V1		+5V
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DS2402DS480214E2 $+5v1$ $+5v$ DS2502DS260214E2 $+5v1$ $+5v$ DS2602DS270214E2 $+5v1$ $+5v$ DS2602DS270214E2 $+5v1$ $+5v$ DS2602DS280214E2 $+5v1$ $+5v$ DS2802DS290214E2 $+5v1$ $+5v$ DS2902DS300214E2 $+5v1$ $+5v$ DS3002DS310214E2 $+5v1$ $+5v$ DS3102DS330214E2 $+5v1$ $+5v$ DS3102DS330214E2 $+5v1$ $+5v$ DS3102DS330214E2 $+5v1$ $+5v$ DS3302DS350214E2 $+5v1$ $+5v$ DS3602DS370214E2 $+5v1$ $+5v$ DS3702DS380214E2 $+5v1$ $+5v$ DS3802DS410214E2 $+5v1$ $+5v$ DS4002DS420214E2 $+5v1$ $+5v$ DS4102DS430214E2 $+5v1$ $+5v$ DS4102DS430214E2 $+5v1$ $+5v$ DS4302DS430214E2 $+5v1$		DS23	02			DS24	02			14E	2				+5V1		+5V
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DS2702DS280214E2 $+5V1$ $+5V$ DS2902DS290214E2 $+5V1$ $+5V$ DS3002DS310214E2 $+5V1$ $+5V$ DS3102DS310214E2 $+5V1$ $+5V$ DS3102DS320214E2 $+5V1$ $+5V$ DS3102DS330214E2 $+5V1$ $+5V$ DS3302DS340214E2 $+5V1$ $+5V$ DS3402DS3502DS3502 $14E$ 2 $+5V1$ DS3502DS360214E2 $+5V1$ $+5V$ DS3602DS370214E2 $+5V1$ $+5V$ DS3702DS380214E2 $+5V1$ $+5V$ DS3802DS400214E2 $+5V1$ $+5V$ DS4002DS410214E2 $+5V1$ $+5V$ DS4102DS430214E2 $+5V1$ $+5V$ DS4402DS440214E2 $+5V1$ $+5V$ DS4402DS440214E2 $+5V1$ $+5V$ DS4402DS440214E 2 $+5V1$ $+5V$ DS4502DS440214E 2 $+5V1$ $+5V$ DS4602DS440214E 2 <		DS26	02			DS27	02			14E	2				+5V1		+5V
DS28 02 DS29 02 T4E 2 $+5V1$ $+5V$ DS3002DS310214E2 $+5V1$ $+5V$ DS3102DS310214E2 $+5V1$ $+5V$ DS3102DS320214E2 $+5V1$ $+5V$ DS3302DS330214E2 $+5V1$ $+5V$ DS3302DS340214E2 $+5V1$ $+5V$ DS3402DS350214E2 $+5V1$ $+5V$ DS3602DS370214E2 $+5V1$ $+5V$ DS3702DS380214E2 $+5V1$ $+5V$ DS3702DS380214E2 $+5V1$ $+5V$ DS3902DS400214E2 $+5V1$ $+5V$ DS4002DS410214E2 $+5V1$ $+5V$ DS4302DS430214E2 $+5V1$ $+5V$ DS4302DS430214E2 $+5V1$ $+5V$ DS4302DS440214E2 $+5V1$ $+5V$ DS4402DS440214E2 $+5V1$ $+5V$ DS4402DS440214E2 $+5V1$ $+5V$ DS4502DS440214E2 $+5V1$ $+5V$ DS4802DS240214E2 $+5V1$ <td>))</td> <td>DS27</td> <td>02</td> <td></td> <td></td> <td>DS28</td> <td>02</td> <td></td> <td></td> <td>14E</td> <td>2</td> <td></td> <td></td> <td></td> <td>+5V1</td> <td></td> <td>+5V</td>))	DS27	02			DS28	02			14E	2				+5V1		+5V
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DS31 D2 D32 14E 2 45V 45V DS32 02 DS33 02 14E 2 45V1 45V DS32 02 DS33 02 14E 2 45V1 45V DS33 02 DS34 02 14E 2 45V1 45V DS34 02 DS35 02 14E 2 45V1 45V DS34 02 DS35 02 14E 2 45V1 45V DS36 02 DS37 02 14E 2 45V1 45V DS36 02 DS37 02 14E 2 45V1 45V DS37 02 DS38 02 14E 2 45V1 45V DS37 02 DS40 02 14E 2 45V1 45V DS40 02 DS41 02 14E 2 45V1 45V DS41 02 DS42 02 14E 2 45V1 45V		DS29	02			DS30	02			148	2				+5V1		+5V
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DS30 02 $DS39$ 02 $14E/2$ $+5V1$ $+5V$ $DS39$ 02 $DS40$ 02 $14E/2$ $+5V1$ $+5V$ $DS40$ 02 $DS41$ 02 $14E/2$ $+5V1$ $+5V$ $DS41$ 02 $DS41$ 02 $14E/2$ $+5V1$ $+5V$ $DS42$ 02 $DS43$ 02 $14E/2$ $+5V1$ $+5V$ $DS43$ 02 $DS43$ 02 $14E/2$ $+5V1$ $+5V$ $DS43$ 02 $DS44$ 02 $14E/2$ $+5V1$ $+5V$ $DS44$ 02 $DS45$ 02 $14E/2$ $+5V1$ $+5V$ $DS45$ 02 $DS46$ 02 $14E/2$ $+5V1$ $+5V$ $DS46$ 02 $DS47$ 02 $14E/2$ $+5V1$ $+5V$ $DS47$ 02 $DS48$ 02 $14E/2$ $+5V1$ $+5V$ $DS48$ 02 $DS24$ 02 $14E/2$ $+5V1$ $+5V$ $DS49$ 02 $DS50$ 02 $14E/2$ $+5V1$ $+5V$ $DS50$ 02 $DS51$ 02 $14E/2$ $+5V1$ $+5V$ $DS51$ 02 $DS53$ 02 $14E/2$ $+5V1$ $+5V$ $DS53$ 02 $DS54$ 02 $14E/2$ $+5V1$ $+5V$ $DS53$ 02 $DS54$ 02 $14E/2$ $+5V1$ $+5V$ $DS53$ 02 $DS54$ 02 $14E/2$ $+5V1$ $+5V$		US3/	02				02			14E	2	[+5V1		+5V
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		DS41	02			DS42	02			14E	2				+5V1		+5V
DS43 02 DS44 02 14E 2 +5V1 +5V DS44 02 DS45 02 14E 2 +5V1 +5V DS45 02 DS46 02 14E 2 +5V1 +5V DS45 02 DS46 02 14E 2 +5V1 +5V DS46 02 DS47 02 14E 2 +5V1 +5V DS47 02 DS48 02 14E 2 +5V1 +5V DS48 02 DS24 02 14E 2 +5V1 +5V DS49 02 DS50 02 14E 2 +5V1 +5V DS49 02 DS51 02 14E 2 +5V1 +5V DS50 02 DS51 02 14E 2 +5V1 +5V DS51 02 DS52 02 14E 2 +5V1 +5V DS52 02 DS53 02 14E 2 +5V1 +5V		DS42	02			DS43	02			14E	2				+5V1		+5V
DS44 02 DS45 02 14E 2 +5V1 +5V DS45 02 DS46 02 14E 2 +5V1 +5V DS46 02 DS47 02 14E 2 +5V1 +5V DS46 02 DS47 02 14E 2 +5V1 +5V DS47 02 DS48 02 14E 2 +5V1 +5V DS48 02 DS24 02 14E 2 +5V1 +5V DS49 02 DS50 02 14E 2 +5V1 +5V DS49 02 DS50 02 14E 2 +5V1 +5V DS50 02 DS51 02 14E 2 +5V1 +5V DS51 02 DS52 02 14E 2 +5V1 +5V DS52 02 DS53 02 14E 2 +5V1 +5V DS53 02 DS54 02 14E 2 +5V1 +5V		DS43	02			DS44	02			14E	2				+5V1		+5V
DS45 02 DS46 02 14E 2 +5V1 +5V DS46 02 DS47 02 14E 2 +5V1 +5V DS47 02 DS48 02 14E 2 +5V1 +5V DS47 02 DS48 02 14E 2 +5V1 +5V DS48 02 DS24 02 14E 2 +5V1 +5V DS49 02 DS50 02 14E 2 +5V1 +5V DS49 02 DS50 02 14E 2 +5V1 +5V DS50 02 DS51 02 14E 2 +5V1 +5V DS51 02 DS52 02 14E 2 +5V1 +5V DS52 02 DS53 02 14E 2 +5V1 +5V DS53 02 DS54 02 14E 2 +5V1 +5V DS53 02 DS54 02 14E 2 +5V1 +5V		DS44	02			DS45	02			14E	2				+5V1		+5V
DS46 02 DS47 02 14E 2 +5V1 +5V DS47 02 DS48 02 1%E 2 +5V1 +5V DS48 02 DS24 02 14E 2 +5V1 +5V DS48 02 DS24 02 14E 2 +5V1 +5V DS49 02 DS50 02 14E 2 +5V1 +5V DS49 02 DS50 02 14E 2 +5V1 +5V DS50 02 DS51 02 14E 2 +5V1 +5V DS51 02 DS52 02 14E 2 +5V1 +5V DS51 02 DS53 02 14E 2 +5V1 +5V DS53 02 DS54 02 14E 2 +5V1 +5V DS53 02 DS54 02 14E 2 +5V1 +5V		DS45	02			DS46	02			14E	2				+5V1		+5V
DS47 02 158 02 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 15		US46	02			DS47	02			14E	2	-			+5V1		+5V
DS49 02 DS40 02 14E 2 +5V1 +5V DS49 02 DS50 02 14E 2 +5V1 +5V DS49 02 DS50 02 14E 2 +5V1 +5V DS50 02 DS51 02 14E 2 +5V1 +5V DS50 02 DS51 02 14E 2 +5V1 +5V DS51 02 DS52 02 14E 2 +5V1 +5V DS52 02 DS53 02 14E 2 +5V1 +5V DS53 02 DS54 02 14E 2 +5V1 +5V		DS4/ DS4/	02			DS48	02			10E	2				+5V1		+5V
DS 49 02 DS 25 02 14E 2 +5V1 +5V DS 50 02 DS 51 02 14E 2 +5V1 +5V DS 50 02 DS 51 02 14E 2 +5V1 +5V DS 51 02 DS 52 02 14E 2 +5V1 +5V DS 52 02 DS 53 02 14E 2 +5V1 +5V DS 53 02 DS 54 02 14E 2 +5V1 +5V		DS40	02			DS24	02			100	2				+5V1		+57
DS50 02 DS51 02 14E 2 +5V1 +5V DS51 02 DS52 02 14E 2 +5V1 +5V DS52 02 DS53 02 14E 2 +5V1 +5V DS53 02 DS54 02 14E 2 +5V1 +5V		DS49	02			DS25	02			142	2	l			+571		+5V
DS51 02 DS52 02 14E 2 +5V1 DS52 02 DS53 02 14E 2 +5V1 DS53 02 DS54 02 14E 2 +5V1		DS50	02			DS51	02			14E	2				+5V1		+5V
DS52 02 DS53 02 14E 2 +5V1 +5V DS53 02 DS54 02 14E 2 +5V1 +5V		DS51	02			DS52	02			14E	2				+5V1		+5V
DS53 02 DS54 02 14E 2 +5V1 +5V		DS52	02			DS53	02			14E	2	l			+5V1		+5V
		DS53	02			DS54	02			14E	2				+5V1		+5V

Table 5-5. MTS Test Aid Assembly Wire List - Continued

	FROM	4			то					NIRE			T			
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	S I P N C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	DS54	n 2			DS55	02			14E	2			T	+5V1	1	+5V
	DS55	02			DS56	02			14E	2				+5V1		+5V
	DS56	02	1		DS57	02			14E	2				+5V1		+5V
	DS57	02			DS58	02			14E	2				+5V1		+5V
	DS58	02			DS59	02			14E	2				+5V1		+5V
	DS59	02			DS60	02			14E	2				+5V1		+5V
	DS60 DS61	02			DS61 DS62	02			145	2				+571		+5V
	DS62	02			DS63	02			14E	2			1	+5V1		+5V
	DS63	02			DS64	02			14E	2				+5V1		+5V
	DS64	02			DS65	02			14E	2				+5V1		+5V
	DS65	02			DS66	02			14E	2				+5V1		+50
	DS66	02			DS67	02			14E	2		l		+5V1		+5V
	DS65	02			DS6/	02			14.5	2				+5V1		+5 V
	DS68	02			DS69	02			14E	2				+5V1		+5V
	DS69	02			DS70	02			14E	2		1		+5V1		+5V
	DS70	02			D\$71	02			14E	2			1	+5V1		+5V
	DS71	02			DS72	02			14E	2				+5V1		+5V
	DS72	02			DS108	02			14E	2				+5V1		+5V
	DS73	02			DS74	02			14E	2				+5V1		+5V
	DS/3 DS74	02			DS01	02			145	2				+5V1		+5V
	DS75	02		1	DS76	02			14E	2				+5V1		+5V
	DS76	02			DS77	02			14E	2				+5V1	•	+5V
	DS77	02			DS78	02			14E	2				+5V1		+5V
	DS78	02			DS79	02			14E	2				+5V1		+5V
	DS79	02			DS80	02			14E	2				+5V1		+5V
	DS80	02			DS81	02			145	2				+5 V 1		+5V
	DS81	02			DS82	02			14E	2				+5V1		+5V
	DS83	02			DS84	02			14E	2			ł	+5V1		+5V
	DS84	02	ļ											+5V1		+5V
	DS85	02	İ		DS86	02			14E	2				+5V1		+5V
	DS85	02			DS91	02			14E	2				+5V1		+5V
	DS86	02		ļ	DS87	02			14E	2				+5V1		+5V
	DS87	02			D588	02			146	2			1	+5V1		+5V
1	DS89	02			DS90	02			14E	2				+5V1		+5V
	DS90	02			DS101	02			14E	2				+5V1		+5V
	DS91	02		ŀ	DS92	02			14E	2				+5V1		+5V
	DS91	02	ļ		DS85	02			14E	2				+5V1		+5V
	DS92	02			DS93	02			14E	2				+5V1		+5V
	0593	02			DS94	02			1415	2				+5V1		+5V
	DS95	02			DS96	02			14E	2				+5V1		+5V
	DS96	02			DS97	02			14E	2				+5V1	11	+5V
-	DS97	02			DS98	02			14E	2				+5V1		+5V
	DS98	02			DS99	02			14E	2				+5V1		+5V
	DS99	02			DS 100	02			14E	2			Ì	+5V1		+5V
	DS100	02			CAL DS102	02	f		148	2				+5V CAL		+5V CAL
	DS101	02		1	DS90	02	1		14E	2		1		+5V1		+5V
	DS102	02			DS103	02			14E	2				+5V1		+5V
	DS103	02			DS104	02			14E	2				+5V1		+5V
	DS104	02			DS105	02			14E	2				+5V1		+5V
	DS105	02			DS106	02			14E	2			1	+5V1	1	+5V
	DS106	02			DS107	02	1		14E	2				+5V1		+5V
	DS107	02			05108	02	1		1415 1417	2				+5V1		+5V
	50,00				2072	~~	1		1.40							
	D26	v			DS101	02			14E	2				+5V2		+5V2
1	D27	v			DS63	02			14E	2				+5V3		+5V3

	FROM	A			то					WIRE						
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	S L E E V E	S N P S C 1	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	D28 D21 D22 D23	v v v v			DS39 DS15 DS62 DS38	02 02 02 02 02			14E 14E 14E 14E	2 2 2 2				+5V4 +5V5 +5V6 +5V7		+5V4 +5V5 +5V6 +5V7
	CAL CAL	111-102 111-102			DS100 D1	02 V			14E 14E	2 2				+5V CAL +5V CAL		+5V CAL +5V CAL
	CAL CAL	111-103 111-103			GND D1	GND PL G	ANI		14E 14E	0 0				GND CAL GND CAL		GND CAL GND CAL
						-										
									-							

	FRO				TO			Γ		WIRE		Γ				
PREFIX	CONNECTOR	Pin	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	S I P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01D25 A01D25 A01D25 A01D25 A01D25 A01D25 A01D25 A01D25 A01D25	08 09 10 11 12 13 14 V			A0 1D25 A0 1D25 A0 1D25 A0 1D25 A0 1D25 A0 1D25 A0 1D25 A0 1D25	09 10 11 12 13 14 V			16B 16B 16B 16B 16B 16B	9 9 9 9 9 9 9 9				+5VPRB +5VPRB +5VPRB +5VPRB +5VPRB +5VPRB +5VPRB	01 02 03 04 05 06 07 08	PULL-UP RESISTORS PULL-UP RESISTORS PULL-UP RESISTORS PULL-UP RESISTORS PULL-UP RESISTORS PULL-UP RESISTORS PULL-UP RESISTORS PULL-UP RESISTORS
	A01A01 A01A01	V 04			A0 1 A 0 1	04			16B	9				+5V01A01 +5V01A01	01 02	
	A0 1A0 2 A0 1A0 2	V 04			A01A02	04			16B	9				+5V01A02 +5V01A02	01 02	
	A0 1A0 3 A0 1A0 3	V 04			A01A03	04			16B	9				+5V01A03 +5V01A03	01 02	
	A01A04 A01A04	V 04			A0 1 A 0 4	04			16B	9				+5V01A04 +5V01A04	01 02	
	A01A05 A01A05	V 04			A01A05	04			16B	9				+5V01A05 +5V01A05	01 02	~
	A01A06 A01A06	V 04			A01A06	04			16B	9				+5V01A06 +5V01A06	01 02	
	A01A07 A01A07	V 04			A01A07	04			16B	9				+5V01A07 +5V01A07	01 02	
	A0 1A08 A0 1A08	V 04			A01A08	04			16B	9				+5V01A08 +5V01A08	01 02	
	A0 1A0 9 A0 1A0 9	V 04			A01A09	04			168	9				+5V01A09 +5V01A09	01 02	
	A01A10 A01A10	V 04			A01A10	04			168	9				+5V01A10 +5V01A10	01 02	
	A01A11 A01A11	V 04			A01A11	04			168	9				+5V01A11 +5V01A11	01 02	
	A01A12 A01A12	V 04			A01A12	04			16B	9				+5V01A12 +5V01A12	01 02	
	A01A13 A01A13	V 04			A01A13	04			16B	9				+5V01A13 +5V01A13	01 02	
	A01A14	v			A01A14	04			16B	9				+5V01A14	01	

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List

	FRO	W			TO					WIRE		T	Τ]	T	
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	S P S	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01A14	04												+5V01A14	02	
	A0 1A 15 A0 1A 15	V 04			A01A15	04			16B	9				+5V01A15 +5V01A15	01 02	
	A01A16 A01A16	V 04			A01A16	04			16B	9				+5V01A16 +5V01A16	01 02	
	A01A17 A01A17	V 04			A01A17	04			16B	9				+5V01A17 +5V01A17	01 02	
	A01A18 A01A18	V 04			A01A18	04			16B	9				+5V01A18 +5V01A18	01 02	
	A01A19 A01A19	V 04			A01A19	04			16B	9				+5V01A19 +5V01A19	01 02	
	A0 1A20 A0 1A20	V 04			A01A20	04			16B	9				+5V01A20 +5V01A20	01 02	
	A0 1A2 1 A0 1A2 1	V 04			A01A21	04			16B	9				+5V01A21 +5V01A21	01 02	
	A0 1A22 A0 1A22	V 04			A01A22	04			16B	9				+5V01A22 +5V01A22	01 02	
	A01A23 A01A23	V 04			A01A23	04			16B	9				+5V01A23 +5V01A23	01 02	
	A0 1A24 A0 1A24	V 04			A0 1A24	04			16B	9				+5V01A24 +5V01A24	01 02	
	A01A25 A01A25	V 04			A01A25	04			16B	9				+5V01A25 +5V01A25	01 02	
	A01A26 A01A26	V 04			A01A26	04			16B	9				+5V01A26 +5V01A26	01 02	
	A0 1A27 A0 1A27	V 04			A01A27	04			16B	9				+5V01A27 +5V01A27	01 02	
	A0 1A28 A0 1A28	V 04			A01A28	04			16B	9				+5V0 1A28 +5V0 1A28	01 02	
	A0 1A29 A0 1A29	V 04			A01A29	04			16B	9				+5V01A29 +5V01A29	01 02	

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued

	FRO	4			TO					. V	NIRE			Γ			
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M U L T	G R O U P	ODE	COLOR	IDENT	S E E V E	S P C	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01A30 A01A30	V 04			A01A30	04			1	6В	9				+5V01A30 +5V01A30	01 02	
	A01B01 A01B01	V 04			A01B01	04			1	6B	9				+5V01B01 +5V01B01	01 02	
	A01B02 A01B02	V 04			A01B02	04			1	6B	9				+5V01B02 +5V01B02	01 02	
	A01B03 A01B03	V 04			A01B03	04			1	6B	9				+5V01B03 +5V01B03	01 02	
	A01B04 A01B04	V 04			A01B04	04			1	6B	9				+5V01B04 +5V01B04	01 02	
	A01B05 A01B05	V 04			A01B05	04			1	16B	9				+5V01B05 +5V01B05	01 02	
	A01B06 A01B06	V 04			A01B06	04			1	68	9				+5V01B06 +5V01B06	01 02	
	A01B07 A01B07	V 04			A01B07	04			1	6B	9				+5V01B07 +5V01B07	01 02	
	A01808 A01808	V 04			A01B08	04			1	16B	9				+5V01B08 +5V01B08	01 02	
	A0 1809 A0 1809	V 04			A01B09	04			1	16B	9				+5V01B09 +5V01B09	01 02	
	A01B10 A01B10	V 04			A01B10	04			1	16B	9				+5V01B10 +5V01B10	01 02	
	A01B11 A01B11	V 04			A01B11	04			1	16B	.9				+5V01B11 +5V01B11	01 02	
	A01B12 A01B12	V 04			A01B12	04			1	16B	9				+5V01B12 +5V01B12	01 02	
	A01B13 A01B13	V 04			A01B13	04	1		1	16B	9				+5V01B13 +5V01B13	01	
	A01B14 A01B14	V 04			A01B14	04			1	16B	9				+5V01B14 +5V01B14	01 02	
	A01B15 A01B15	V 04			A01B15	04			1	16B	9				+5V01B15 +5V01B15	01 02	

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued

	FRON	1			то					WIRE						
PREFIX	CONNECTOR	PIN	SH FiG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L C T U I P	CODE	COLOR	IDENT	S L E E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01B16 A01B16	V 04			A01B16	04			16B	9				+5V01B16 +5V01B16	01 02	
	A01B17 A01B17	V 04			A01B17	04			16B	9				+5V01B17 +5V01B17	01 02	
	A01B18 A01B18	V 04			A01B18	04			16B	9				+5V01B18 +5V01B18	01 02	
	A01B19 A01B19	V 04			A01B19	04			16B	9				+5V01B19 +5V01B19	01 02	
	A01B20 A01B20	V 04			A01B20	04			16B	9				+5V01B20 +5V01B20	01 02	
	A01B21 A01B21	V 04			A01B21	04			16B	9				+5V01B21 +5V01B21	01 02	
	A01B22 A01B22	V 04			A01B22	04			16B	9				+5V01B22 +5V01B22	01 02	
	A01B23 A01B23	V 04			A01B23	04			16B	9				+5V01B23 +5V01B23	01 02	
	A01B24 A01B24	V 04			A01B24	04			16B	9				+5V01B24 +5V01B24	01 02	
	A01B25 A01B25	V 04			A01B25	04			16B	9				+5V01B25 +5V01B25	01 02	
	A01B26 A01B26	V 04			A01B26	04			16B	9				+5V01B26 +5V01B26	01 02	
	A01B27 A01B27	V 04			A01827	04			16B	9				+5V01B27 +5V01B27	01	
	A01B28 A01B28	V 04			A01B28	04			16B	9				+5V01B28 +5V01B28	01 02	
	A01B29 A01B29	V 04			A01B29	04			16B	9				+5V01B29 +5V01B29	01 02	
	A01B30 A01B30	V 04			A01B30	04			16B	9				+5V01B30 +5V01B30	01 02	
	A01C01 A01C01	V 04			A01C01	04			16B	9				+5V01C01 +5V01C01	01	

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued
	FRO	м			то					WIRE		Γ]		
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	S I P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01C02 A01C02	V 04			A01C02	04			16B	9				+5V01C02 +5V01C02	01 02	
	A01C03 A01C03	V 04			A01C03	04			16B	9				+5V01C03 +5V01C03	01 02	
	A01C04 A01C04	V 04			A01C04	04			16B	9				+5V01C04 +5V01C04	01 02	
	A01C05 A01C05	V 04			A01C05	04			16B	9				+5V01C05 +5V01C05	01 02	
	A01C06 A01C06	V 04			A01C06	04			16B	9				+5V01C06 +5V01C06	01 02	
	A01C07 A01C07	V 04			A01C07	04			16B	9				+5V01C07 +5V01C07	01 02	
	A01C08 A01C08	V 04			A01C08	04			16B	9				+5V01C08 +5V01C08	01 02	
	A01C09 A01C09	∨ 04			A01C09	04			16B	9				+5V01C09 +5V01C09	01 02	
	A01C10 A01C10	V 04			A01C10	04			16B	9				+5V01C10 +5V01C10	01 02	
	A01C11 A01C11	V 04		ļ	A01C11	04			16B	9				+5V01C11 +5V01C11	01 02	
	A01C12 A01C12	V 04			A01C12	04			16B	9				+5V01C12 +5V01C12	01 02	
	A01C13 A01C13	V 04			A01C13	04			16B	9				+5V01C13 +5V01C13	01 02	
	A01C14 A01C14	V 04			A01C14	04			16B	9				+5V01C14 +5V01C14	01 02	
	A01C15 A01C15	⊽ 04			A01C15	04			16B	9				+5V01C15 +5V01C15	01 02	
}	A01C16 A01C16	V 04			A01C16	04			16B	9				+5V01C16 +5V01C16	01 02	
	A01C17 A01C17	V 04			A01C17	04			16B	9				+5V01C17 +5V01C17	01 02	

	FRO	v			то						WIRE							
PREFIX	CONNECTOR	PIN	SH FiG	PREFIX	CONNECTOR	PIN	SI Fi	G	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	SPC	I N S T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01C18 A01C18	V 04			A01C18	04				16B	9					+5V01C18 +5V01C18	01 02	
	A01C19 A01C19	V 04			A01C19	04				16B	9					+5V01C19 +5V01C19	01 02	
	A01C20 A01C20	V 04			A01C20	04				16B	9					+5V01C20 +5V01C20	01 02	
	A01C21 A01C21	V 04			A01C21	04				16B	9					+5V01C21 +5V01C21	01 02	
	A01C22 A01C22	V 04			A01C22	04				16B	9					+5V01C22 +5V01C22	01 02	
	A01C23 A01C23	V 04			A01C23	04				16B	9	-				+5V01C23 +5V01C23	01	
	A01C24 A01C24	V 04			A01C24	04				16B	9					+5V01C24 +5V01C24	01 02	
	A01C25 A01C25	V 04			A01C25	04			ľ	16B	9					+5V01C25 +5V01C25	01 02	
	A01C26 A01C26	V 04			A01C26	04				16B	9					+5V01C26 +5V01C26	01 02	
	A01C27 A01C27	V 04			A01C27	04				16B	9					+5V01C27 +5V01C27	01 02	
	A01C28 A01C28	V 04			A01C28	04				16B	9					+5V01C28 +5V01C28	01 02	
	A01C29 A01C29	V 04			A01C29	04				16B	9					+5V01C29 +5V01C29	01 02	
	A01C30 A01C30	V 04			A01C30	04				16B	9					+5V01C30 +5V01C30	01 02	
	A01B07 A01C16	01 01			A01C16	01				16B	9					CHID01 CHID01	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B07 A01C16	05 02			A01C16	02				16B	9					CHID02 CHID02	02	INVERTER, CONT. INVERTER, CONT.
	A01B07 A01C16	08 06			A01C16	06				16B	9					CHID03 Chid03	01 02	INVERTER, CONT. INVERTER, CONT.

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PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L C T U I P	CODE	COLOR	IDENT	E E E E E	S P C	I N SIGNAL T	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01B07 A01C16	12 07			A01C16	07			168	9				CHID04 Chid04	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B08 A01C16	01 09			A01C16	09			16B	9				CHID05 CHID05	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B08 A01C16	05 13			A01C16	13			16B	9				CHID06 CHID06	02	INVERTER, CONT. INVERTER, CONT.
	A01B08 A01C17	08 01			A01C17	01			16B	9				CHID07 CHID07	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B08 A01C17	12 02			A01C17	02			16B	9				CHID08 CHID08	01 02	INVERTER, CONT. INVERTER, CONT.
	A01809 A01C17	01 06			A01C17	06			16B	9				CHID09 CHID09	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B09 A01C17	05 07			A01C17	07			16B	9				CHID10 CHID10	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B09 A01C17	08 09			A01C17	09			16B	9				CHID11 CHID11	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B09 A01C17	12 13			A01C17	13			16B	9				CHID12 CHID12	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B10 A01C18	01 01			A01C18	01			16в	9				CHID13 CHID13	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B10 A01C18	05 02			A01C18	02			16B	9				CHID14 CHID14	01	INVERTER, CONT. INVERTER, CONT.
	A01B10 A01C18	08 06			A01C18	06			16в	9				CHID15 CHID15	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B10 A01C18	12 07			A01C18	07			16B	9				CHID16 CHID16	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B11 A01C18	01 09			A01C18	09			16в	9				CHID17 CHID17	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B11 A01C18	05 13			A01C18	13			16в	9				CHID18 CHID18	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B11 A01C19	08 01			A01C19	01			16B	9				CHID19 CHID19	01 02	INVERTER, CONT. INVERTER, CONT.

	FROM	A		[то			Γ		l	NIRE		Ι	Τ		1	
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M U L T	G R U P	CODE	COLOR	IDENT	S L E V E	S P C	I N SIGNAL T	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01B11 A01C19	12 02			A01C19	02				16B	9				CHID20 CHID20	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B12 A01C19	01 06			A01C19	06				16B	9				CHID21 CHID21	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B12 A01C19	05 07			A01C19	07				16B	9				CHID22 CHID22	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B12 A01C19	08 09			A01C19	09				16B	9				CHID23 CHID23	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B12 A01C19	12 13			A01C19	13				16B	9				CHID24 CHID24	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B13 A01C20	0 1 0 1			A01C20	01				16B	9				CHID25 CHID25	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B13 A01C20	05 02			A01C20	02				16B	9				CHID26 CHID26	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B13 A01C20	08 06			A01C20	06				16B	9				CHID27 CHID27	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B13 A01C20	12 07			A01C20	07				16B	9				CHID28 CHID28	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B14 A01C20	01 09			A01C20	09				168	9				CHID29 CHID29	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B14 A01C20	05 13			A01C20	13				16B	9	-			CHID30 CHID30	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B14 A01C21	08 01			A01C21	01				16B	9				CHID31 CHID31	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B14 A01C21	12 02			A01C21	02				16B	9	-			CHID32 CHID32	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B15 A01C21	01 06			A01C21	06				16B	9				CHID33 CHID33	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B15 A01C21	05 07			A01C21	07		****		16B	9				CHID34 CHID34	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B15 A01C21	08 09			A01C21	09				16B	9				CHID35 CHID35	01 02	INVERTER, CONT. INVERTER, CONT.

	FRO	м			TO					WIRE						
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U F L C T L I F	CODE	COLOR	IDENT	S P C	I N S T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01B15 A01C21	12 13			A01C21	13			16B	9				CHID36 CHID36	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B16 A01C22	01 01			A01C22	01			16B	9				CHID37 CHID37	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B16 A01C22	05 02			A01C22	02			16в	9				CHID38 CHID38	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B16 A01C22	08 06			A01C22	06			16в	9				CHID39 CHID39	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B16 A01C22	12 07			A01C22	07			16B	9				CHID40 CHID40	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B17 A01C22	01 09			A01C22	09			16B	9				CHID41 CHID41	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B17 A01C22	05 13			A01C22	13			16B	9				CHID42 CHID42	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B17 A01C23	08 01			A01C23	01			16B	9				CHID43 CHID43	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B17 A01C23	12 02			A01C23	02			16B	9				CHID44 CHID44	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B18 A01C23	01 06			A01C23	06			16B	9				CHID45 CHID45	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B18 A01C23	05 07			A01C23	07			16B	9				CHID46 CHID46	01 02	INVERTER, CONT. INVERTER, CONT.
ļ	A01B18 A01C23	08 09			A01C23	09			16B	9				CHID47 CHID47	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B18 A01C23	12 13		•	A01C23	13			16B	9	:			CHID48 CHID48	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B19 A01C24	01 01			A01C24	01			16B	9				CHID49 CHID49	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B19 A01C24	05 02			A01C24	02			168	9				CHID50 CHID50	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B19 A01C24	08 06			A01C24	06			16B	9				CHID51 CHID51	01 02	INVERTER, CONT. INVERTER, CONT.

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued

	FROI	Alland, Laborator M		<u></u>	TO			[<u></u>	WIRE	# <u>***</u> *	T	T]	T	
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M (U) L (I)		DECOLOR	IDENT	- S L E E E V E	S I P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01819 A01C24	12 07			A01C24	07			16	B 9				CHID52 CHID52	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B20 A01C24	01 09			A01C24	09			16	в 9				CHID53 CHID53	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B20 A01C24	05 13			A01C24	13			16	B 9				CHID54 CHID54	01 02	INVERTER, CONT INVERTER, CONT.
	A01B20 A01C25	08 01			A01C25	01			16	в 9				CHID55 CHID55	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B20 A01C25	12 02			A01C25	02			16	в 9				CHID56 CHID56	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B21 A01C25	01 06			A01C25	06			16	в 9				CHID57 CHID57	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B21 A01C25	05 07			A01C25	07			16	B 9				CHID58 CHID58	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B21 A01C25	08 09			A01C25	09			16	B 9				CHID59 CHID59	01 02	INVERTER, CONT. INVERTER, CONT.
	A01821 A01C25	12 13			A01C25	13			16	B 9				CHID60 CHID60	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B22 A01C26	01 01			A01C26	01			16	B 9				CHID61 CHID61	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B22 A01C26	05 02			A01C26	02			16	B 9				CHID62 CHID62	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B22 A01C26	08 06			A01C26	06			16	в 9				CHID63 CHID63	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B22 A01C26	12 07		· · · ·	A01C26	07			16	B 9				CHID64 CHID64	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B23 A01C26	01 09			A01C26	09			16	B 9				CHID65 CHID65	01 02	INVERTER, CONT. INVERTER, CONT.
	A01823 A01C26	05 13			A01C26	13		1	16	89				CHID66 CHID66	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B23 A01C27	08 01			A01C27	01			16	89				CHID67 CHID67	01 02	INVERTER, CONT. INVERTER, CONT.

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued

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	£BUI	4		T T	TO			T		WIDE		T	T		T	
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	S L E E V E	S I P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01B23 A01C27	12 02			A01C27	02			16B	9				CHID68 CHID68	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B24 A01C27	01 06			A01C27	06			16B	9				CHID69 CHID69	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B24 A01C27	05 07			A01C27	07			16B	9				CHID70 CHID70	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B24 A01C27	08 09			A01C27	09			16B	9				CHID71 CHID71	01 02	INVERTER, CONT. INVERTER, CONT.
	A01B24 A01C27	12 13			A01C27	13			16B	9				CHID72 CHID72	01 02	INVERTER, CONT. INVERTER, CONT
	A01B27 A01D19	03 06			A01D19	06			16B	9				DCID01 DCID01	01 02	CARD ID 1 CARD ID 1 OUT
	A01B27 A01D19	07 08	•		A01D19	08			16B	9				DCID02 DCID02	01 02	CARD ID 2 CARD ID 2 OUT
	A01B27 A01D19	11 09			A01D19	09			16B	9				DCID04 DCID04	01 02	CARD ID 4 CARD ID 4 OUT
	A01B27 A01D19	14 10			A01D19	10			16B	9				DCID08 DCID08	01 02	CARD ID 8 CARD ID 8 OUT
	A01B28 A01D19	03 11			A01D19	11			16B	9				DCID16 DCID16	01 02	CARD ID 16 CARD ID 16 OUT
	A01B28 A01D19	07 12			A01D19	12			16B	9				DCID32 DCID32	01 02	CARD ID 32 CARD ID 32 OUT
	A0 1A0 1 A0 1A 19 A0 1B0 7 A0 1D0 4	03 03 03 01			A0 1A 19 A0 1B07 A0 1D04	03 03 01			16B 16B 16B	9 9 9				DFC01B DFC01B DFC01B DFC01B	01 02 03 04	DATA BIT 01 OUT DATA BIT 01 OUT DATA BIT 01 OUT DATA BIT 01 OUT
	A01A01 A01A19 A01B07 A01D04	07 07 07 02			A01A19 A01B07 A01D04	07 07 02			16B 16B 16B	9 9 9				DFC02B DFC02B DFC02B DFC02B	01 02 03 04	DATA BIT 02 OUT DATA BIT 02 OUT DATA BIT 02 OUT DATA BIT 02 OUT
	A0 1A0 1 A0 1A 19 A0 1B0 7 A0 1D0 4	11 11 11 03			A01A19 A01B07 A01D04	11 11 03			16B 16B 16B	9 9 9				DFC03B DFC03B DFC03B DFC03B	01 02 03 04	DATA BIT 03 OUT DATA BIT 03 OUT DATA BIT 03 OUT DATA BIT 03 OUT
	A0 1A0 1	14			A0 1A 19	14			16B	9				DFC04B	01	DATA BIT 04 OUT

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	FROM	4		ľ	TO				1944-144-70 19	WIRE		T	Γ			
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	S L E E V E	S I P N C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01A19 A01B07 A01D04	14 14 04			A01B07 A01D04	14 04			16B 16B	9 9				DFC04B DFC04B DFC04B	02 03 04	DATA BIT 04 OUT DATA BIT 04 OUT DATA BIT 04 OUT
	A01A02 A01A20 A01B08 A01D04	03 03 03 05			A0 1A20 A0 1B08 A0 1D04	03 03 05			16B 16B 16B	9 9 9				DFC05B DFC05B DFC05B DFC05B	01 02 03 04	DATA BIT 05 OUT DATA BIT 05 OUT DATA BIT 05 OUT DATA BIT 05 OUT
	A01A02 A01A20 A01B08 A01D04	07 07 07 06			A0 1A20 A0 1B08 A0 1D04	07 07 06			16B 16B 16B	9 9 9	- - - -			DFC06B DFC06B DFC06B DFC06B	01 02 03 04	DATA BIT 06 CUT DATA BIT 06 CUT DATA BIT 06 CUT DATA BIT 06 CUT
	A0 1A02 A0 1A20 A0 1B08 A0 1D24	11 11 11 04			A01A20 A01B08 A01D24	11 11 04			16B 16B 16B	9 9 9				DFC07B DFC07B DFC07B DFC07B	01 02 03 04	DATA BIT 07 OUT DATA BIT 07 OUT DATA BIT 07 OUT DATA BIT 07 OUT
	A0 1A02 A0 1A20 A0 1B08 A0 1D04	14 14 14 08			A01A20 A01B08 A01D04	14 14 08			16B 16B 16B	9 9 9				DFC08B DFC08B DFC08B DFC08B	01 02 03 04	DATA BIT 08 OUT DATA BIT 08 OUT DATA BIT 08 OUT DATA BIT 08 OUT
	A0 1A0 3 A0 1A2 1 A0 1B0 9 A0 1D0 4	03 03 03 09			A0 1A2 1 A0 1B09 A0 1D04	03 03 09			16B 16B 16B	9 9 9				DFC09B DFC09B DFC09B DFC09B DFC09B	01 02 03 04	DATA BIT 09 OUT DATA BIT 09 OUT DATA BIT 09 OUT DATA BIT 09 OUT
	A0 1A0 3 A0 1A2 1 A0 1B0 9 A0 1D0 4	07 07 07 10			A01A21 A01B09 A01D04	07 07 10			16B 16B 16B	9 9 9				DFC10B DFC10B DFC10B DFC10B	01 02 03 04	DATA BIT 10 OUT DATA BIT 10 OUT DATA BIT 10 OUT DATA BIT 10 OUT
	A01A03 A01A21 A01B09 A01D04	11 11 11 11			A0 1A2 1 A0 1B09 A0 1D04	11 11 11			16B 16B 16B	9 9 9				DFC11B DFC11B DFC11B DFC11B	01 02 03 04	DATA BIT 11 OUT DATA BIT 11 OUT DATA BIT 11 OUT DATA BIT 11 OUT
	A01A03 A01A21 A01B09 A01D04	14 14 14 12			A01A21 A01B09 A01D04	14 14 12			16B 16B 16B	9 9 9				DFC12B DFC12B DFC12B DFC12B	01 02 03 04	DATA BIT 12 OUT DATA BIT 12 OUT DATA BIT 12 OUT DATA BIT 12 OUT
	A01A04 A01A22 A01B10 A01D04	03 03 03 13			A0 1A22 A0 1B 10 A0 1D0 4	03 03 13			16B 16B 16B	9 9 9				DFC13B DFC13B DFC13B DFC13B	01 02 03 04	DATA BIT 13 OUT DATA BIT 13 OUT DATA BIT 13 OUT DATA BIT 13 OUT
	A01A04 A01A22 A01B10 A01D04	07 07 07 14			A0 1A22 A0 1B 10 A0 1D0 4	07 07 14			16B 16B 16B	9 9 9				DFC14B DFC14B DFC14B DFC14B	01 02 03 04	DATA BIT 14 OUT DATA BIT 14 OUT DATA BIT 14 OUT DATA BIT 14 OUT

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued.

	FRO	<u></u>		I	то					WIRE		1	T			
PREFID	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A0 1A04 A0 1A22 A0 1B10 A0 1D05	11 11 11 01			A0 1A22 A0 1B 10 A0 1D05	11 11 01			16B 16B 16B	9 9 9				DFC15B DFC15B DFC15B DFC15B	01 02 03 04	DATA BIT 15 OUT DATA BIT 15 OUT DATA BIT 15 OUT DATA BIT 15 OUT DATA BIT 15 OUT
	A0 1A04 A0 1A22 A0 1B 10 A0 1D05	14 14 14 02			A01A22 A01B10 A01D05	14 14 02			16B 16B 16B	9 9 9				DFC16B DFC16B DFC16B DFC16B	01 02 03 04	DATA BIT 16 OUT DATA BIT 16 OUT DATA BIT 16 OUT DATA BIT 16 OUT
	A01A05 A01A23 A01B11 A01D05	03 03 03 03			A01A23 A01B11 A01D05	03 03 03			16B 16B 16B	9 9 9				DFC17B DFC17B DFC17B DFC17B	01 02 03 04	DATA BIT 17 OUT DATA BIT 17 OUT DATA BIT 17 OUT DATA BIT 17 OUT
	A01A05 A01A23 A01B11 A01D05	07 07 07 04			A01A23 A01B11 A01D05	07 07 04			16B 16B 16B	9 9 9				DFC18B DFC18B DFC18B DFC18B	01 02 03 04	DATA BIT 18 OUT DATA BIT 18 OUT DATA BIT 18 OUT DATA BIT 18 OUT
	A01A05 A01A23 A01B11 A01D05	11 11 11 05			A01A23 A01B11 A01D05	11 11 05			16B 16B 16B	9 9 9				DFC19B DFC19B DFC19B DFC19B DFC19B	01 02 03 04	DATA BIT 19 OUT DATA BIT 19 OUT DATA BIT 19 OUT DATA BIT 19 OUT
	A01A05 A01A23 A01B11 A01D05	14 14 14 06			A01A23 A01B11 A01D05	14 14 06			16B 16B 16B	9 9 9				DFC20B DFC20B DFC20B DFC20B	01 02 03 04	DATA BIT 20 OUT DATA BIT 20 OUT DATA BIT 20 OUT DATA BIT 20 OUT
	A01A06 A01A24 A01B12 A01D05	03 03 03 08			A01A24 A01B12 A01D05	03 03 08			16B 16B 16B	9 9 9				DFC21B DFC21B DFC21B DFC21B DFC21B	01 02 03 04	DATA BIT 21 OUT DATA BIT 21 OUT DATA BIT 21 OUT DATA BIT 21 OUT
	A01A06 A01A24 A01B12 A01D05	07 07 07 09			A01A24 A01B12 A01D05	07 07 09			16B 16B 16B	9 9 9				DFC22B DFC22B DFC22B DFC22B	01 02 03 04	DATA BIT 22 OUT DATA BIT 22 OUT DATA BIT 22 OUT DATA BIT 22 OUT
	A0 1A06 A0 1A24 A0 1B 12 A0 1D05	11 11 11 10			A01A24 A01B12 A01D05	11 11 10			16B 16B 16B	9 9 9				DFC23B DFC23B DFC23B DFC23B	01 02 03 04	DATA BIT 23 OUT DATA BIT 23 OUT DATA BIT 23 OUT DATA BIT 23 OUT
	A01A06 A01A24 A01B12 A01D05	14 14 14 11			A01A24 A01B12 A01D05	14 14 11			16B 16B 16B	9 9 9				DFC24B DFC24B DFC24B DFC24B DFC24B	01 02 03 04	DATA BIT 24 OUT DATA BIT 24 OUT DATA BIT 24 OUT DATA BIT 24 OUT
	A0 1A07 A0 1A25 A0 1B 1 3	03 03 03			A0 1A25 A0 1B 13 A0 1D05	03 03 12			16B 16B 16B	9 9 9				DFC25B DFC25B DFC25B	01 02 03	DATA BIT 25 OUT Data BIT 26 OUT Data BIT 25 OUT

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PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU JP	CODE	COLOR	IDENT	SLEEVE	S N P S C T	SIGNAL	STRING SEQ. NO.		DE	SIGN SCRIF	AL
	A01D05	12				*								DFC25B	04	DATA	BIT	25	OUT
	A01A07 A01A25 A01B13	07 07 07			A01A25 A01B13 A01D05	07 07 13			16B 16B 16B	9 9 9				DFC26B DFC26B DFC26B	01 02 03	DATA DATA DATA	BIT BIT BIT	26 27 26	OUT OUT OUT
	A01D05	13												DFC26B	04	DATA	BIT	26	OUT
	A01A07 A01A25	11 11 11			A01A25 A01B13 A01D05	11 11 14			16B 16B	9 9				DFC27B DFC27B DFC27B	01 02 03	DATA DATA	BIT BIT BIT	27 28 27	OUT OUT OUT
	A01D05	14			X01003				105					DFC27B	04	DATA	BIT	27	OUT
	A01A07 A01A25	14 14			A01A25 A01B13	14 14			16B 16B	9				DFC28B DFC28B	01	DATA DATA	BIT BIT	28 29	OUT OUT
	A01B13 A01D09	01			AUIDU9	01			168	9				DFC28B	03	DATA DATA	BIT	28 28	OUT
	A01A08 A01A26	03			A01A26 A01B14	03 03			16B 16B	9 9				DFC29B DFC29B	01 02	DATA Data	BIT BIT	29 29	OUT OUT
	A01B14 A01D09	03 02			A01D09	02			168	9				DFC29B DFC29B	03	DATA DATA	BIT BIT	29 29	OUT OUT
	A01A08 A01A26	07 07			A01A26 A01B14	07 07			16B 16B	9 9				DFC30B DFC30B	01 02	DATA Data	BIT BIT	30 30	OUT OUT
	A01B14 A01D09	07 03			A01D09	03			16B	9				DFC30B DFC30B	03	DATA DATA	BIT BIT	30 30	OUT OUT
	A0 1A0 8 A0 1A2 6	11 11			A01A26 A01B14	11 11			16B 16B	9 9				DFC31B DFC31B	01 02	DATA DATA	BIT BIT	31 31	OUT OUT
	A01B14 A01D09	11 04			A01D09	04			16B	9				DFC31B DFC31B	03	DATA DATA	BIT BIT	31 31	OUT OUT
	A01A08 A01A26	14 14			A01A26 A01B14	14 14			16B 16B	9 9				DFC32B DFC32B	01 02	DATA DATA	BIT BIT	32 32	OUT OUT
	A01B14 A01D09	14 05			A01D09	05			16B	9				DFC32B DFC32B	03 04	DATA DATA	BIT BIT	32 32	OUT OUT
	A01A09 A01A27	03 03			A01A27 A01B15	03 03			16B 16B	9 9				DFC33B DFC33B	01	DATA DATA	BIT BIT	33 33	OUT OUT
	A01B15 A01D09	03 06			A01D09	06			16B	9				DFC33B DFC33B	03	DATA DATA	BIT BIT	33 33	OUT OUT
	A01A09 A01A27	07 07			A01A27 A01B15	07 07			16B 16B	9 9				DFC34B DFC34B	01	DATA DATA	BIT BIT	34 34	OUT OUT
	A01815 A01D09	07 08			A01D09	08			168	9				DFC34B DFC34B	03	DATA DATA	BIT BIT	34 34	OUT OUT
	A01A09 A01A27	11			A01A27 A01B15	11			16B 16B	9 9				DFC35B DFC35B	01	DATA Data	BIT BIT	35 35	OUT OUT
	A01B15 A01D09	09			AU1009	09			16B	9				DFC35B DFC35B	03	DATA DATA	BIT BIT	35 35	OUT OUT

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued.

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PREFIX	FROM	PIN	SH	PREFIX	TO	PIN	SH FIG	M G U R L O	CODE	COLOR	IDENT	S L E E	S N P S	SIGNAL	STRING SEQ.		DE	SIGN SCRIF	AL TION	
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<u> </u>												1	<u> </u>					20		\neg
	A01A09	14			A01A27	14			168	9				DFC36B	01	DATA	BIT	30	OUT	
	A01A27	14			A01815	14			108	9				DECION	02	DATA	BIT	30	001	
	A01815	14			A01D09	10			108	9				DECIOB	03	DATA	BIT	30	001	
	AUIDUS	10												DECIOB	07	DAIA	DII	50	001	
	A01A10	03			A01A28	03			16B	9				DFC37B	01	DATA	BIT	37	OUT	
	A01A28	03			A01B16	03			16B	9				DFC37B	02	DATA	BIT	37	OUT	
	A01B16	03			A01D09	11			16B	9]	DFC37B	03	DATA	BIT	37	OUT	
]	A01D09	11												DFC37B	04	DATA	BIT	37	OUT	
1																				
																-				
ļ	A01A10	07			A01A28	07			16B	9			l	DFC38B	01	DATA	BIT	38	OUT	
	A01A28	07			A01B16	07			16B	9		1		DFC38B	02	DATA	BIT	38	OUT	
	A01B16	07			A01D09	12			16B	9				DFC38B	03	DATA	BIT	38	OUT	
1	A01D09	12					[DEC388	04	DATA	BIT	38	001	
	801810	11	}		201229	11		1	168	q		1	1	DEC39B	0.1	ПАТА	BIT	39	OUT	
	A01228	11			A01816	11			16B	9			1	DFC39B	02	DATA	BIT	39	OUT	
	A01816	11			A01D09	13			16B	9				DFC39B	03	DATA	BIT	39	OUT	
	A01D09	13								-				DFC39B	04	DATA	BIT	39	OUT	
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]					1]		1					
Į	A01A10	14			A01A28	14			16B	9				DFC40B	01	DATA	BIT	40	OUT	
	A01A28	14	1		A01B16	14			16B	9			1	DFC40B	02	DATA	BIT	40	OUT	
l	A01B16	14			A01D09	14			16B	9				DFC40B	03	DATA	BIT	40	OUT	
	A01D09	14					1					[DFC40B	04	DATA	BIT	40	OUT	
1		<u></u>			101120	0.2			100					DRCUIR	0.1	D 3 7 3	חדת	11 1	OUT	
	AU 1A 1 1	03			AU 1849	03			168	9				DEC41B	02	DATA	BIT	ч, 1.1	OUT	
	A01A29	03			A01017	01			16B	9				DFC41B	03	DATA	BIT	41	OUT	
	A01D10	01			AUTD TO	•				1	· · ·	1		DFC41B	04	DATA	BIT	41	OUT	
		•••																		
							ł													
	A01A11	07			A01A29	07			16B	9				DFC42B	01	DATA	BIT	42	OUT	
	A01A29	07			A01B17	07			16B	9				DFC42B	02	DATA	BIT	42	OUT	
	A01B17	07			A01D10	02			16B	9				DFC42B	03	DATA	BIT	42	OUT	
	A01D10	02												DFC42B	04	DATA	BIT	42	OUT	
	301311	11			201220	11	ĺ		160	a			1	DECASE	01	DATA	BTT	ų٦	OUT	
	A01220	11		l	A01817	11		1	16B	9		1		DFC43B	02	DATA	BIT	43	OUT	-
	A01B17	11			A01D10	03			16B	9				DFC43B	03	DATA	BIT	43	OUT	
	A01D10	03											İ.	DFC43B	04	DATA	BIT	43	OUT	
			1											1						
	A01A11	14	1]	A01A29	14]	16B	9				DFC44B	01	DATA	BIT	44	OUT	
	A01A29	14		1	A01B17	14		1	16B	9			ĺ	DFC44B	02	DATA	BIT	44	OUT	
	A01B17	14		l	A01D10	04		1	16B	9		1		DFC44B	03	DATA	BIT	44	OUT	
	A01D10	04	1											DFC44B	04	DATA	BIT	44	OUT	
				l				ł				1		Į	1	ļ				
1	201212	03		1	201230	03			168	9				DEC45B	0.1	אייאם	BTT	45	OUT	
	A01A12	03			A01818	03			16B	9				DFC45B	02	DATA	BIT	45	OUT	
	A01B18	03			A01D10	05		1	16B	و				DFC45B	03	DATA	BIT	45	OUT	
	A01D10	05								-				DFC45B	04	DATA	BIT	45	OUT	
		-	1					{				1	1					-		
								Ì												
1	A01A12	07			A01A30	07			16B	9				DFC46B	01	DATA	BIT	46	OUT	
	A01A30	07	1		A01B18	07		1	16B	9		1		DFC46B	02	DATA	BIT	46	OUT	
	A01B18	07	1		A01D10	06		1	16B	9				DFC46B	03	DATA	BIT	46	OUT	

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PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	S L E E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01D10	06												DFC46B	04	DATA BIT 46 OUT
	A01A12 A01A30 A01B18 A01D10	11 11 11 08			A0 1A30 A0 1B 18 A0 1D 10	11 11 08			16B 16B 16B	9 9 9				DFC47B DFC47B DFC47B DFC47B DFC47B	01 02 03 04	DATA BIT 47 OUT DATA BIT 47 OUT DATA BIT 47 OUT DATA BIT 47 OUT
	A01A12 A01A30 A01B18 A01D10	14 14 14 09			A0 1A30 A0 1B 18 A0 1D 10	14 14 09			16B 16B 16B	9 9 9				DFC48B DFC48B DFC48B DFC48B	01 02 03 04	DATA BIT 48 OUT DATA BIT 48 OUT DATA BIT 48 OUT DATA BIT 48 OUT
	A01A13 A01B01 A01B19 A01D10	03 03 03 10			A01B01 A01B19 A01D10	03 03 10			16B 16B 16B	9 9 9				DFC49B DFC49B DFC49B DFC49B DFC49B	01 02 03 04	DATA BIT 49 OUT DATA BIT 49 OUT DATA BIT 49 OUT DATA BIT 49 OUT
	A01A13 A01B01 A01B19 A01D10	07 07 07 11			A01B01 A01B19 A01D10	07 07 11			16B 16B 16B	9 9 9				DFC50B DFC50B DFC50B DFC50B	01 02 03 04	DATA BIT 50 OUT DATA BIT 50 OUT DATA BIT 50 OUT DATA BIT 50 OUT
	A01A13 A01B01 A01B19 A01D10	11 11 11 12			A01B01 A01B19 A01D10	11 11 12			16B 16B 16B	9 9 9				DFC51B DFC51B DFC51B DFC51B	01 02 03 04	DATA BIT 51 OUT DATA BIT 51 OUT DATA BIT 51 OUT DATA BIT 51 OUT
	A01A13 A01B01 A01B19 A01D10	14 14 14 13			A01B01 A01B19 A01D10	14 14 13			16B 16B 16B	9 9 9				DFC52B DFC52B DFC52B DFC52B	01 02 03 04	DATA BIT 52 OUT DATA BIT 52 OUT DATA BIT 52 OUT DATA BIT 52 OUT
	A01A14 A01B02 A01B20 A01D10	03 03 03 14			A01B02 A01B20 A01D10	03 03 14			16B 16B 16B	9 9 9				DFC53B DFC53B DFC53B DFC53B	01 02 03 04	DATA BIT 53 OUT DATA BIT 53 OUT DATA BIT 53 OUT DATA BIT 53 OUT
	A0 1A 14 A0 1B02 A0 1B20 A0 1D14	07 07 07 01			A01B02 A01B20 A01D14	07 07 01			16B 16B 16B	9 9 9				DFC54B DFC54B DFC54B DFC54B	01 02 03 04	DATA BIT 54 OUT DATA BIT 54 OUT DATA BIT 54 OUT DATA BIT 54 OUT
	A01A14 A01B02 A01B20 A01D14	11 11 11 02			A01B02 A01B20 A01D14	11 11 02			16B 16B 16B	9 9 9				DFC55B DFC55B DFC55B DFC55B	01 02 03 04	DATA BIT 55 OUT DATA BIT 55 OUT DATA BIT 55 OUT DATA BIT 55 OUT
	A01A14 A01B02 A01B20 A01D14	14 14 14 03		-	A01B02 A01B20 A01D14	14 14 03			16B 16B 16B	9 9 9				DFC56B DFC56B DFC56B DFC56B	01 02 03 04	DATA BIT 56 OUT DATA BIT 56 OUT DATA BIT 56 OUT DATA BIT 56 OUT

Table 5-6. MTS Test Aid Circuit Board Assembly	Wire List - Continued.
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PREFIX	CONNECTOR	PIN	SH	PREFIX	CONNECTOR	PIN	SH	UR	CODE	COLOR	IDENT	E	PN	SIGNAL	SEQ.		DE	SCRIP	TION		
			FIG				FIG	ŤŬ				v	ĊŤ		NO.						
								I P				E									1
	201215	0.3			301903	0.2			168	0				DEC578	0.1	D & D &	חדת	57	0170		
{ · · · ·	AUTAIS			{	AUIBUS		1	1	100	9		1		DPC57B	0.7	DATA	DIT	57	001		
	AUIBUS	03		ł	AUIBZI	03			168	9				DFC5/B	02	DATA	DIT	51	001		1
	A01821	03		ĺ	AUIDIS	04			168	9				DFC5/B	03	DATA	BIT	57	OUT		
i I	A01D14	04												DFC57B	04	DATA	BIT	57	OUT		
1]]]]]]						ŀ
															1						
	A01A15	07			A01B03	07			16B	9				DFC58B	01	DATA	BIT	58	OUT		
	A01B03	07			A01B21	07			16B	9				DFC58B	02	DATA	BIT	58	OUT		t
1	A01821	07]		A01D14	05			16B	9				DEC58B	03	DATA	BIT	58	OUT		
1	A01D14	0.5								-				DEC58B	0.4	DATA	BTT	5.8	OUT		
1	701014	05												DICJUD	04	DAIA	511	50			ſ
{		l				1				5 5											1
				1																	1
	A01A15	11	1		A01803	11	· ·		168	9				DFC59B	01	DATA	BIT	59	OUT		
	A01B03] 1 1		ł	A01B21	11			16B	9				DFC59B	02	DATA	BIT	59	OUT		
	A01B21	11			A01D14	06			16B	9		f		DFC59B	03	DATA	BIT	59	OUT		
	A01D14	06		}										DFC59B	04	DATA	BIT	59	OUT		
]																			
		1				1 1			1						1						
	A01A15	14	1		A01B03	14			16B	9				DFC60B	01	DATA	BIT	60	OUT		
	A01803	14	1		A01821	10			168	9		1)	DECEOR	0.2	DATA	BTT	60	OUT		1
	A01003	11			A01D14				169	á				DECEOB	02	DATA	BTT	60	OUT		
	A01021	1.7			A01214	00		1	105	5				DRCCOR	0.0	DATA		60	001		1
	AUIDI4	08												DECOOR	04	DATA	DII	00	001		
		[1			l												
																	_				
	A01A16	03			A01B04	03	1		16B	9				DFC61B	01	DATA	BIT	61	OUT		
	A01B04	03			A01B22	03			16B	9				DFC61B	02	DATA	BIT	61	OUT		
	A01B22	03	}		A01D14	09			16B	9				DFC61B	03	DATA	BIT	61	OUT		
	A01D14	09												DFC61B	04	DATA	BIT	61	OUT		
	801816	0.7			A01804	07			168	9				DEC62B	01	התאח	BTT	62	OUT		ł
	AO IA IO	07			101004	07			160	á				DECE2B	0.2	DAMA	011 0TM	62	0117		
	AUIBU4	07			AUIBZZ	107			IOD	3		1		DFC02B	02	DAIA	D11	62	001		ŀ
	AUIBZZ	07			AUIDIA	10			IOB	9				DFC62B	03	DATA	DIT	62	001		Į
	A01D14	10												DFC62B	04	DATA	BIT	62	OUT		
									ľ												
	A01A16	11			A01B04	11			16B	9				DFC63B	01	DATA	BIT	63	OUT		
	A01B04	11			A01B22	11			16B	9				DFC63B	02	DATA	BIT	63	OUT		
	A01B22	11			A01D14	11	F		16B	9				DFC63B	03	DATA	BIT	63	OUT		
	A01D14	11												DFC63B	04	DATA	BIT	63	OUT		
						[[[l	[l								
1	301316	10			A0190/	14			160	9				DEC6#B	01	DATA	BTT	64	OUT		ł
	A0180	1 1	1		801000			1	160	6				DECEMP	02	DAMA	BTT	6/	01177		
	AU 1804	14	1		AU 1822	14		ļ	108	5			l	DFC04B	02	DATA	DIT	64 61	001		
	A01822	14			AU1D14	12			168	9				DFC64B	03	DATA	BIT	54	OUT		
	A01D14	12						1						DFC64B	04	DATA	BIT	64	OUT		
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	A01A17	03			A01B05	03			16B	9				DFC65B	01	DATA	BIT	65	OUT		
	A01B05	03	1		A01B23	03		1	16B	9				DFC65B	02	DATA	BIT	65	OUT		
}	A01B23	03			A01D14	13			16B	9				DFC65B	03	DATA	BIT	65	OUT		1
	A01D14	13				-			1					DFC65B	04	DATA	BIT	65	OUT		
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								1								1					
	201217	0.7			101005			1	100					DRCGER	01	D3.07	D T M	66	0117		
	AUIA1/	07			AUIBUS			ļ	105	2			ļ	DECOOD		DATA	DIT	00	001		
	AU1B05	07	1		AU1823	07		1	16B	9				DECPOR	02	DATA	BIT	00	OUT		
1	A01B23	07		1	A01D14	14		1	16B	9		.		DFC66B	03	DATA	BIT	66	OUT		
	A01D14	14					l		[DFC66B	04	DATA	BIT	66	OUT		
L I			[l	1						ļ	Į	ļ					
			1						1												
	A01A17	11			A01B05	11			16B	9			[DFC67B	01	DATA	BIT	67	OUT		
	A01B05	11		1	A01B23	11			16B	9				DFC67B	02	DATA	BIT	67	OUT	•.	
	A01823	111		1	A01015	01		1	16B	9				DFC67B	03	DATA	BIT	67	ουτ		
		1	1	1		1 ·	1	1		<u> </u>				1	1-0	1					1

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PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	S L E E V E	S I P N C S T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01D15	01												DFC67B	04	DATA BIT 67 OUT
	A01A17 A01B05 A01B23 A01D15	14 14 14 02			A0 1B05 A0 1B23 A0 1D15	14 14 02			16B 16B 16B	9 9 9				DFC68B DFC68B DFC68B DFC68B	01 02 03 04	DATA BIT 68 OUT DATA BIT 68 OUT DATA BIT 68 OUT DATA BIT 68 OUT
	A01A18 A01B06 A01B24 A01D15	03 03 03 03			A01B06 A01B24 A01D15	03 03 03			16B 16B 16B	9 9 9				DFC69B DFC69B DFC69B DFC69B	01 02 03 04	DATA BIT 69 OUT DATA BIT 69 OUT DATA BIT 69 OUT DATA BIT 69 OUT
	A01A18 A01B06 A01B24 A01D15	07 07 07 04			A01B06 A01B24 A01D15	07 07 04			16B 16B 16B	9 9 9				DFC70B DFC70B DFC70B DFC70B	01 02 03 04	DATA BIT 70 OUT DATA BIT 70 OUT DATA BIT 70 OUT DATA BIT 70 OUT
	A01A18 A01B06 A01B24 A01D15	11 11 11 05			A01B06 A01B24 A01D15	11 11 05			16B 16B 16B	9 9 9				DFC71B DFC71B DFC71B DFC71B	01 02 03 04	DATA BIT 71 OUT DATA BIT 71 OUT DATA BIT 71 OUT DATA BIT 71 OUT
	A01A18 A01B06 A01B24 A01D15	14 14 14 06			A01B06 A01B24 A01D15	14 14 06			16B 16B 16B	9 9 9				DFC72B DFC72B DFC72B DFC72B	01 02 03 04	DATA BIT 72 OUT DATA BIT 72 OUT DATA BIT 72 OUT DATA BIT 72 OUT
	A01D04 A01D05 A01D09 A01D10 A01D14 A01D15 A01D19 A01D20	07 07 07 07 07 07 07 07			A01D05 A01D09 A01D10 A01D14 A01D15 A01D19 A01D20 A01D24	07 07 07 07 07 07 07 07			16B 16B 16B 16B 16B 16B 16B	9 9 9 9 9 9 9 9 9				DLPTSW DLPTSW DLPTSW DLPTSW DLPTSW DLPTSW DLPTSW	01 02 03 04 05 06 07 08	LAMP TEST LAMP TEST LAMP TEST LAMP TEST LAMP TEST LAMP TEST LAMP TEST
	A01D24 A01B25 A01D20	07 03 10			A01D20	10			16B	9				DLPTSW DSLT00 DSLT00	09 01 02	SELF TEST BO OUT SELF TEST BO OUT
	A01B25 A01D20	07 11			A01D20	11			16B	9				DSLT01 DSLT01	01 02	SELF TEST B1 OUT SELF TEST B1 OUT
	A01B25 A01D20	11 12			A01D20	12			16B	9				DSLT02 DSLT02	01 02	SELF TEST B2 OUT SELF TEST B2 OUT
	A01B25 A01D20	14 13			A01D20	13			16B	9	·			DSLT03 DSLT03	01 02	SELF TEST B3 OUT SELF TEST B3 OUT
	A01B26 A01D20	03 14			A01D20	14			16B	9				DSLT04 DSLT04	01 02	SELF TEST B4 OUT SELF TEST B4 OUT

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PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	S L E E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01B26 A01D24	07 01			A01D24	01			16B	9				DSLT05 DSLT05	01 02	SELF TEST B5 OUT SELF TEST B5 OUT
	A01B26 A01D24	11 02			A01D24	02			16B	9				DSLT06 DSLT06	01 02	SELF TEST B6 OUT SELF TEST B6 OUT
	A01B26 A01D24	14 03		-	A01D24	03			16B	9				DSLT07 DSLT07	01 02	SELF TEST B7 OUT SELF TEST B7 OUT
	A01828 A01D19	11 13			A01D19	13			16B	9				DSTA01 DSTA01	01 02	STATE 1 OUT STATE 1 OUT
	A01B28 A01D19	14 14			A01D19	14			16B	9				DSTA02 DSTA02	01 02	STATE 2 OUT STATE 2 OUT
	A01B29 A01D20	03 01			A01D20	01			16B	9				DSTA03 DSTA03	01 02	STATE 3 OUT STATE 3 OUT
	A01B29 A01D20	07 02			A01D20	02			16B	9				DSTA04 DSTA04	01 02	STATE 4 OUT STATE 4 OUT
	A01B29 A01D20	11 03			A0 1D20	03			16B	9				DSTA05 DSTA05	01 02	STATE 5 OUT STATE 5 OUT
	A01B29 A01D20	14 04			A01D20	04			16B	9				DSTA06 DSTA06	01 02	STATE 6 OUT STATE 6 OUT
	A0 1B30 A0 1D20	03 05			A01D20	05			16B	9				DSTA07 DSTA07	01 02	STATE 7 OUT STATE 7 OUT
	A01B30 A01D20	07 06	-		A01D20	06			16B	9				DSTA08 DSTA08	01 02	STATE 8 OUT STATE 8 OUT
	A01B30 A01D20	11 08			A01D20	ŎВ			16B	9				DSTA09 DSTA09	01 02	STATE 9 OUT STATE 9 OUT
	A01B30 A01D20	14 09			A01D20	09			16B	9				DSTA10 DSTA10	01 02	STATE 10 OUT STATE 10 OUT
	A01C02 A01D15	11 14			A01D15	14			16B	9				DXAD01 DXAD01	01 02	X ADDRESS 1 OUT X ADDRESS 1 OUT
	A01C02 A01D19	14 01			A01D19	01			16B	9				DXAD02 DXAD02	01 02	X ADDRESS 2 OUT X ADDRESS 2 OUT
	A01C03 A01D19	03 02			A01D19	02			16B	9				DXAD04 DXAD04	01 02	X ADDRESS 4 OUT X ADDRESS 4 OUT

Table 5-6. MTS Test Aid Circuit Board Assembly	/ Wire List - Continuea
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	FROJ	4			то			[WIRE		Τ	Γ			
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FiG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01C03 A01D19	07 03			A01D19	03			16B	9				DXAD08 DXAD08	01 02	X ADDRESS 8 OUT X ADDRESS 8 OUT
	A01C01 A01D15	03 08			A01D15	08			16B	9				DYAD01 DYAD01	01 02	Y ADDRESS 1 OUT Y ADDRESS 1 OUT
	A01C01 A01D15	07 09			A01D15	09			16B	9				DYAD02 DYAD02	01 02	Y ADDRESS 2 OUT Y ADDRESS 2 OUT
	A01C01 A01D15	11 10			A01D15	10			16B	9				DYAD04 DYAD04	01 02	Y ADDRESS 4 OUT Y ADDRESS 4 OUT
	A01C01 A01D15	14 11			A01D15	11			16B	9				DYAD08 DYAD08	01 02	Y ADDRESS 8 OUT Y ADDRESS 8 OUT
	A01C02 A01D15	03 12			A01D15	12			16B	9				DYAD16 DYAD16	01 02	Y ADDRESS 16 OUT Y ADDRESS 16 OUT
	A01C02 A01D15	07 13			A01D15	13			16B	9				DYAD32 DYAD32	01 02	Y ADDRESS 32 OUT Y ADDRESS 32 OUT
	A01A19 A01C04	01 01			A01C04	01			16B	9				FHID01 FHID01	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A19 A01C04	05 02			A01C04	02			16B	9				FHID02 FHID02	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A19 A01C04	08 06			A01C04	06			16B	9				FHID03 FHID03	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A19 A01C04	12 07			A01C04	07			16B	9				FHID04 FHID04	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A20 A01C04	01 09			A01C04	09			16В	9				FHID05 FHID05	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A20 A01C04	05 13			A01C04	13			16B	9				FHID06 FHID06	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A20 A01C05	08 01			A01C05	01			16B	9				FHID07 FHID07	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A20 A01C05	12 02			A01C05	02			16в	9				FHIDO8 FHIDO8	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A21 A01C05	01 06			A01C05	06			16B	9				FHID09 FHID09	01 02	INVERTER, FUNCTION INVERTER, FUNCTION

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued.

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PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	S I P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01A21 A01C05	05 07			A01C05	07			16B	9				FHID10 FHID10	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A21 A01C05	08 09			A01C05	09			16B	9				FHID11 FHID11	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A21 A01C05	12 13			A01C05	13			16B	9				FHID12 FHID12	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A22 A01C06	01 01			A01C06	01			16B	9				FHID13 FHID13	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A22 A01C06	05 02			A01C06	02			16B	9				FHID14 FHID14	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A22 A01C06	08 06			A01C06	06			16B	9				FHID15 FHID15	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A22 A01C06	12 07			A01C06	07			16B	9				FHID16 FHID16	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A23 A01C06	01 09			A01C06	09			16B	9				FHID17 FHID17	02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A23 A01C06	05 13			A01C06	13			16B	9				FHID18 FHID18	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A23 A01C07	08 01			A01C07	01			16B	9				FHID19 FHID19	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A23 A01C07	12 02			A01C07	02			16B	9				FHID20 FHID20	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A24 A01C07	01 06			A01C07	06			16B	9				FHID21 FHID21	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A24 A01C07	05 07			A01C07	07			16B	9				FHID22 FHID22	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A24 A01C07	08 09			A01C07	09			16B	9				FHID23 FHID23	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A24 A01C07	12 13			A01C07	13			168	9				FHID24 FHID24	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A25 A01C08	01 01			A01C08	01			16В	9				FHID25 FHID25	01 02	INVERTER, FUNCTION INVERTER, FUNCTION

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued.

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	FROM	4		1	70					WIDE		Γ	Τ	1		
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	S I P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01A25 A01C08	05 02			A01C08	02			16B	9				FHID26 FHID26	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A25 A01C08	08 06			A01C08	06			16B	9				FHID27 FHID27	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A25 A01C08	12 07			A01C08	07			16B	9				FHID28 FHID28	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A26 A01C08	01 09			A01C08	09			16B	9				FHID29 FHID29	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A26 A01C08	05 13			A01C08	13			16B	9				FHID30 FHID30	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A26 A01C09	08 01			A01C09	01			16B	9				FHID31 FHID31	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A26 A01C09`	12 02			A01C09	02			16B	9				FHID32 FHID32	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A27 A01C09	01 06			A01C09	06			16B	9				FHID33 FHID33	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A27 A01C09	05 07			A01C09	07			16B	9				FHID34 FHID34	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A27 A01C09	08 09			A01C09	09			16B	9				FHID35 FHID35	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A27 A01C09	12 13			A01C09	13			16B	9				FHID36 FHID36	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A28 A01C10	01 01			A01C10	01			16B	9				FHID37 FHID37	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A28 A01C10	05 02			A01C10	02			16B	9				FHID38 FHID38	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A28 A01C10	08 06			A01C10	06			16B	9				FHID39 FHID39	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A28 A01C10	12 07			A01C10	07			16B	9				FHID40 Fhid40	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A29 A01C10	01 09			A01C10	09			16B	9				PHID41 PHID41	01 02	INVERTER, FUNCTION INVERTER, FUNCTION

	FRO			I	70					WIRE		<u> </u>	Γ	I	<u> </u>	
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L O T U I P	CODE	COLOR	IDENT	SLEEVE	S I P N C T	SIGNAL	STRING SEQ. NO,	SIGNAL DESCRIPTION
-	A01A29 A01C10	05 13			A01C10	13			16B	9				FHID42 FHID42	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A29 A01C11	08 01			A01C11	01			16B	9				FHID43 FHID43	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A29 A01C11	12 02			A01C11	02			16B	9				FHID44 FHID44	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A30 A01C11	01 06			A01C11	06			16B	9				FHID45 FHID45	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A30 A01C11	05 07			A01C11	07			16B	9				FHID46 FHID46	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A30 A01C11	08 09			A01C11	09			16B	9				FHID47 FHID47	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01A30 A01C11	12 13			A01C11	13			16B	9				FHID48 FHID48	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B01 A01C12	01 01			A01C12	01			16B	9				FHID49 FHID49	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B01 A01C12	05 02			A01C12	02			16B	9				FHID50 FHID50	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B01 A01C12	08 06			A01C12	06			16B	9				FHID51 FHID51	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B01 A01C12	12 07			A01C12	07			16B	9				FHID52 FHID52	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B02 A01C12	01 09			A01C12	09			16B	9				FHID53 FHID53	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B02 A01C12	05 13			A01C12	13			16B	9				FHID54 FHID54	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B02 A01C13	08 01			A01C13	01			16B	9				FHID55 FHID55	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B02 A01C13	12 02			A01C13	02			16B	9				FHID56 FHID56	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B03 A01C13	01 06			A01C13	06			16B	9				FHID57 FHID57	01 02	INVERTER, FUNCTION INVERTER, FUNCTION

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued.

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	FRO	м			то					WIRE			1			
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E V E	S I P N C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01B03 A01C13	05 07			A01C13	07			16B	9				FHID58 FHID58	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B03 A01C13	08 09			A01C13	09			16B	9				FHID59 FHID59	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B03 A01C13	12 13			A01C13	13			16B	9				FHID60 FHID60	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B04 A01C14	01 01			A01C14	01			16B	9				FHID61 FHID61	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B04 A01C14	05 02			A01C14	02			16B	9				FHID62 FHID62	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B04 A01C14	08 06			A01C14	06			16B	9				FHID63 FHID63	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B04 A01C14	12 07			A01C14	07			16B	9				FHID64 FHID64	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B05 A01C14	01 09			A01C14	09			16B	9				FHID65 FHID65	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B05 A01C14	05 13			A01C14	13			16B	9				FHID66 FHID66	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B05 A01C15	08 01			A01C15	0 1			16B	9				FHID67 FHID67	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B05 A01C15	12 02			A01C15	02		1	16B	9				FHID68 FHID68	01 02	INVERTER, FUNCTION
	A01B06 A01C15	01 06			A01C15	06			16B	9				FHID69 FHID69	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B06 A01C15	05 07			A01C15	07			16B	9				FHID70 Fhid70	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B06 A01C15	08 09			A01C15	09			16B	9	-			FHID71 FHID71	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A01B06 A01C15	12 13			A01C15	13			16B	9				FHID72 FHID72	01 02	INVERTER, FUNCTION INVERTER, FUNCTION
	A0 1A0 1 A0 1A0 1	G 10			A0 1A0 1	10			16B	9				GND0 1A0 1 GND0 1A0 1	01 02	

	FRO	W.	1997 - 1999 - 1 99		TO					WIRE		Γ	1			
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L O T U 1 P	CODE	COLOR	IDENT		S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01A02 A01A02	G 10			A01A02	10			16B	9				GND01A02 GND01A02	01 02	
	A01A03 A01A03	G 10			A01A03	10			16B	9				GND01A03 GND01A03	01 02	
	A01A04 A01A04	G 10			A01A04	10			16B	9	-			GND01A04 GND01A04	01 02	
	A0 1A05 A0 1A05	G 10			A01A05	10			16B	9				GND0 1A05 GND0 1A05	01 02	
	A01A06 A01A06	G 10			A01A06	10			16B	9				GND0 1A06 GND0 1A06	01 02	
	A01A07 A01A07	G 10			A01A07	10			16B	9				GND0 1A07 GND0 1A07	01 02	
	A01A08 A01A08	G 10			A0 1A0 8	10			16B	9				GND01A08 GND01A08	01 02	
	A01A09 A01A09	G 10			A0 1A0 9	10			16B	9				GND0 1A09 GND0 1A09	01 02	
	A01A10 A01A10	G 10			A01A10	10			16B	9				GND01A10 GND01A10	01 02	
	A0 1A 1 1 A0 1A 1 1	G 10			A01A11	10			16В	9				GND01A11 GND01A11	01 02	
	A01A12 A01A12	G 10			A01A12	10			16B	9				GND01A12 GND01A12	01 02	
	A01A13 A01A13	G 10			A01A13	10			16B	9				GND01A13 GND01A13	01 02	
	A01A14 A01A14	G 10			A01A14	10			16B	9				GND01A14 GND01A14	01 02	
	A01A15 A01A15	G 10			A01A15	10			16B	9				GND0 1A 15 GND0 1A 15	01 02	
	A01A16 A01A16	G 10			A01A16	10			16B	9				GND0 1A 16 GND0 1A 16	01 02	
	A01A17 A01A17	G 10			A01A17	10			16B	9				GND0 1A 17 GND0 1A 17	01 02	

Table 5-0. INTO TESTAID CITCUIL DUATU ASSETTBLY WITE LIST - CUTILITUE	Table 5-6.	MTS Test Aid	Circuit Board Assembl	y Wire List - Continued
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	FRO	A		<u> </u>	то			Γ		1	WIRE		Τ	T			
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M U L T I	G R O U P	CODE	COLOR	IDENT	SLEEVE	S P C	I N SIGNAL S	STRING SEQ. NO.	SIGNAL DESCRIPTION
) 	A01A18 A01A18	G 10			A01A18	10				16B	9				GND01A18 GND01A18	01 02	
	A01A19 A01A19	G 10			A01A19	10				16B	9				GND0 1A 19 GND0 1A 19	01 02	
	A0 1A20 A0 1A20	G 10			A01A20	10				16B	9	÷			GND0 1A20 GND0 1A20	01 02	
	A01A21 A01A21	G 10			A01A21	10				16B	9				GND0 1A2 1 GND0 1A2 1	01 02	
	A0 1A22 A0 1A22	G 10			A01A22	10				16B	9				GND0 1A22 GND0 1A22	01 02	
	A0 1A23 A0 1A23	G 10			A01A23	10				16B	9				GND0 1A23 GND0 1A23	01 02	
	A0 1A24 A0 1A24	G 10			A01A24	10				16B	9				GND0 1A24 GND0 1A24	01 02	
	A0 1A25 A0 1A25	G 10			A01A25	10				16B	9				GND0 1A25 GND0 1A25	01 02	
	A0 1A26 A0 1A26	G 10			A01A26	10				16B	9				GND0 1A26 GND0 1A26	01 02	
	A0 1A27 A0 1A27	G 10			A01A27	10				16B	9				GND0 1A27 GND0 1A27	01 02	
	A01A28 A01A28	G 10			A01A28	10				16B	9				GND0 1A28 GND0 1A28	01 02	
	A0 1A29 A0 1A29	G 10			A01A29	10				16B	9				GND0 1A29 GND0 1A29	01 02	
	A01A30 A01A30	G 10			A01A30	10				16B	9				GND0 1A30 GND0 1A30	01 02	
	A01B01 A01B01	G 10			A01B01	10				16B	9				GND01B01 GND01B01	01 02	
	A01B02 A01B02	G 10			A01B02	10				16B	9				GND01B02 GND01B02	01 02	
	A01B03 A01B03	G 10			A01B03	10				16B	9				GND0 1B03 GND0 1B03	01 02	

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued.

			121	r	4			r				T	÷	1	T	T
PREFIX	FRO	PIN	SH FIG	PREFIX	TO CONNECTOR	PIN	SH FIG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01B04 A01B04	G 10			A01B04	10			16B	9				GND01B04 GND01B04	01 02	
	A01B05 A01B05	G 10			A01B05	10			16B	9				GND01B05 GND01B05	01 02	
	A01B06 A01B06	G 10			A01B06	10			16B	9				GND01B06 GND01B06	01 02	
	A01B07 A01B07	G 10			A01B07	10			16B	9				GND01B07 GND01B07	01	
	A01B08 A01B08	G 10			A01B08	10			16B	9				GND01B08 GND01B08	01 02	
	A01B09 A01B09	G 10			A01B09	10			16B	9				GND01B09 GND01B09	01 02	
	A01B10 A01B10	G 10			A01B10	10			16B	9				GND01B10 GND01B10	01 02	
	A01B11 A01B11	G 10			A01B11	10			16B	9				GND01B11 GND01B11	01 02	
	A01B12 A01B12	G 10			A01B12	10			16B	9				GND01B12 GND01B12	01 02	
	A01B13 A01B13	G 10			A01B13	10			16B	9				GND01B13 GND01B13	01 02	
	A01B14 A01B14	G 10			A01B14	10			16B	9				GND01B14 GND01B14	01 02	
	A01B15 A01B15	G 10			A01B15	10			16B	9				GND01B15 GND01B15	01 02	
	A01B16 A01B16	G 10			A01B16	10			16B	9				GND01B16 GND01B16	01 02	I.
	A01B17 A01B17	G 10			A01B17	10			16B	9				GND01B17 GND01B17	01 02	
	A01B18 A01B18	G 10			A01B18	10			16B	9				GND01B18 GND01B18	01 02	
	A01B19 A01B19	G 10			A01B19	10			16B	9				GND01B19 GND01B19	01 02	

				ľ				T.		WIDE		T	T	T T		
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M G U R L C T L I P	CODE	COLOR	IDENT	S L E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01B20 A01B20	G 10			A01B20	10			16B	9				GND01B20 GND01B20	01 02	
	A01B21 A01B21	G 10			A01B21	10			16B	9				GND01B21 GND01B21	01 02	
	A01B22 A01B22	G 10			A01B22	10			16B	9				GND0 1B22 GND0 1B22	01 02	
	A01B23 A01B23	G 10			A01B23	10			16B	9				GND01B23 GND01B23	01 02	
	A01B24 A01B24	G 10			A01B24	10			16B	9				GND01B24 GND01B24	01 02	
	A01B25 A01B25	G 10			A0 1B25	10			16B	9				GND01B25 GND01B25	01 02	
	A01826 A01826	G 10			A01B26	10			16B	9				GND01B26 GND01B26	01 02	
	A01B27 A01B27	G 10			A01B27	10			16B	9				GND01B27 GND01B27	01 02	
	A01B28 A01B28	G 10			A01B28	10			16B	9				GND0 1 B 2 8 GND0 1 B 2 8	01 02	
	A01B29 A01B29	G 10			A01B29	10			16B	9				GND01B29 GND01B29	01 02	
	AC 1830 AO 1830	G 10			A01B30	10			16B	9				GND01B30 GND01B30	01 02	
	A01C01 A01C01	G 10			A01C01	10		i i	16B	9				GND01C01 GND01C01	01 02	
	A01C02 A01C02	G 10			A01C02	10			16B	9				GND91C02 GND01C02	01 02	
	A01C03 A01C03	G 10			A01C03	10			168	9				GND01C03 GND01C03	01 02	
	A01C04 A01C04	G 10			A01C04	10			16B	9		•		GND01C04 GND01C04	01 02	
	A01C05 A01C05	G 10			A01C05	10			16B	9				GND01C05 GND01C05	01 02	

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued.

	FROI	W		Ī	то			Γ	<u></u>		WIRE	7 <u></u>	Γ	T.			
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	M U L T I	G R O U P	CODE	COLOR	IDENT	S L E E V E	S I P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01C06 A01C06	G 10			A01C06	10				16B	9				GND01C06 GND01C06	01 02	
	A01C07 A01C07	G 10			A01C07	10				16B	9				GND01C07 GND01C07	01 02	
	A01C08 A01C08	G 10			A01C08	10				16B	9				GND01C08 GND01C08	01 02	
	A01C09 A01C09	G 10			A01C09	10				16B	9				GND01C09 GND01C09	01 02	
	A01C10 A01C10	G 10			A01C10	10				16B	9				GND01C10 GND01C10	01 02	
	A01C11 A01C11	G 10			A01C11	10				16B	9				GND01C11 GND01C11	01 02	
	A01C12 A01C12	G 10			A01C12	10				16B	9				GND01C12 GND01C12	01 02	
	A01C13 A01C13	G 10			A01C13	10				16B	9				GND01C13 GND01C13	01 02	
	A01C14 A01C14	G 10			A01C14	10				16B	9				GND01C14 GND01C14	01 02	
	A01C15 A01C15	G 10			A01C15	10				16B	9				GND01C15 GND01C15	01 02	
	A01C16 A01C16	G 10			A01C16	10				16B	9				GND01C16 GND01C16	01 02	
	A01C17 A01C17	G 10			A01C17	10				16B	9				GND01C17 GND01C17	01 02	
	A01C18 A01C18	G 10			A01C18	10				16B	9				GND01C18 GND01C18	01 02	
	A01C19 A01C19	G 10			A01C19	10				16B	9				GND0 1C 19 GND0 1C 19	01 02	
	A01C20 A01C20	G 10			A01C20	10				16B	9				GND01C20 GND01C20	01 02	
	A01C21 A01C21	G 10			A01C21	10				16B	9		3		GND0 1C2 1 GND0 1C2 1	01 02	

	FRO			1	то					WIRE		T	Ī		1	
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	S L E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01C22 A01C22	G 10			A01C22	10			16B	9				GND01C22 GND01C22	01 02	
	A01C23 A01C23	G 10			A01C23	10			16B	9				GND01C23 GND01C23	01	
	A01C24 A01C24	G 10			A01C24	10			16B	9				GND0 1C24 GND0 1C24	01 02	
	A01C25 A01C25	G 10			A01C25	10			16B	9				GND0 1C25 GND0 1C25	01	
	A01C26 A01C26	G 10			A01C26	10			16B	9				GND01C26 GND01C26	01 02	
	A01C27 A01C27	G 10			A01C27	10			16B	9				GND01C27 GND01C27	01	
	A01C28 A01C28	G 10			A01C28	10			16B	9				GND01C28 GND01C28	01 02	
	A01C29 A01C29	G 10			A01C29	10			16B	9				GND01C29 GND01C29	01 02	
	A01C30 A01C30	G 10			A01C30	10			16B	9				GND01C30 GND01C30	01 02	
	A01C03 A01D19	14 05			A01D19	05			16B	9				HBLAF0A HBLAF0A	01 02	DATA CLOCK OUT DATA CLOCK OUT
	A01C03 A01D19	11 04			A01D19	04			16B	9				HBLAKOA HBLAKOA	01 02	ENABLE TC OUT ENABLE TC OUT
	A01D25 A01C28	02 06			A01C28	06			16B	9				SCPOOA SCPOOA	01 02	STEP CLOCK PULSE STEP CLOCK PULSE
	A01D25 A01C28	01 01			A01C28	0 1	-		16B	9				SCP000 SCP000	01 02	STEP CLOCK PULSE STEP CLOCK PULSE
	A01D25 A01C28 A01C28	03 02 07			A01C28 A01C28	02 07			16B 16B	9 9				SCP01A SCP01A SCP01A	01 02 03	STEP CP STEP CP STEP CP
	A01B07 A01B07 A01B07 A01B07 A01B08 A01B08	02 06 09 13 02 06			A01B07 A01B07 A01B07 A01B08 A01B08 A01B08	06 09 13 02 06 09		-	16B 16B 16B 16B 16B 16B	9 9 9 9 9				TCIN3A TCIN3A TCIN3A TCIN3A TCIN3A TCIN3A	01 02 03 04 05 06	CONTINUITY ENABLE CONTINUITY ENABLE CONTINUITY ENABLE CONTINUITY ENABLE CONTINUITY ENABLE CONTINUITY ENABLE

	FROM	1		[TO					WIRE		1	Τ	1	[
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FiG	M G U R L O T U I P	CODE	COLOR	IDENT	S L E E V E	S I P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01B08	09			A01B08	13			16B	9				TCINJA	07	CONTINUITY ENABLE
	A01B08	13		· ·	A01B09	02			16B	9				TCINJA	08	CONTINUITY ENABLE
	A01B09	02			A01B09	06			16B	9				TCIN3A	09	CONTINUITY ENABLE
1	A01B09	06	ł		A01B09	09			16B	9				TCIN3A	10	CONTINUITY ENABLE
	A01B09	09]	A01B09	13			16B	9	j			TCIN3A	11	CONTINUITY ENABLE
1	A01B09	13			A01B10	02			16B	9				TCIN3A	12	CONTINUITY ENABLE
1	A01B10	02			A01B10	06			16B	9				TCINJA	13	CONTINUITY ENABLE
	A01B10	06]	A01810	09			16B	9				TCINJA	14	CONTINUITY ENABLE
	A01010	13			A01010	02			160	9				TCINJA	15	CONTINUITY ENABLE
	A01811	02	1		A01811	06			168	9		1	1	TCINIA	17	CONTINUITY ENABLE
	A01B11	06	('		A01B11	09			16B	9		ſ		TCINJA	18	CONTINUITY ENABLE
	A01B11	09			A01B11	13			16B	9				TCIN3A	19	CONTINUITY ENABLE
	A01B11	13			A01B12	02			16B	9				TCINJA	20	CONTINUITY ENABLE
	A01B12	02			A01B12	06			16B	9				TCINJA	21	CONTINUITY ENABLE
	A01B12	06			A01B12	09			16B	9			1	TCIN3A	22	CONTINUITY ENABLE
	A01B12	09			A01B12	13			16B	9				TCIN3A	23	CONTINUITY ENABLE
	A01B12	13			A01B13	02			16B	9				TCINJA	24	CONTINUITY ENABLE
	AU 1813	02			AU1813	06			168	9				TCINJA	25	CONTINUITY ENABLE
	A01813	00			A01813	13			16B	9				TCINJA	20	CONTINUITY ENABLE
	A01B13	13			A01B14	02			16B	9				TCINJA	28	CONTINUITY ENABLE
1	A01B14	02	1	ł	A01B14	06			16B	9		(1	TCINJA	29	CONTINUITY ENABLE
	A01B14	06			A01B14	09			16B	9				TCIN3A	30	CONTINUITY ENABLE
	A01B14	09			A01B14	13			16B	9				TCINJA	31	CONTINUITY ENABLE
()	A01B14	13			A01B15	02		.	16B	9		1	1	TCINJA	32	CONTINUITY ENABLE
	A01B15	02			A01B15	06			16B	9				TCIN3A	33	CONTINUITY ENABLE
	A01B15	06			A01B15	09			16B	9				TCIN3A	34	CONTINUITY ENABLE
	A01B15	09			A01B15	13			16B	9		1		TCIN3A	35	CONTINUITY ENABLE
	AUIBIS	0.2		ĺ	AU1816	02			168	9				TCINJA	30	CONTINUITY ENABLE
	A01816	06			A01816	00			168	9				TCINIA	38	CONTINUITY ENABLE
	A01816	09			A01816	13			16B	9				TCINGA	39	CONTINUITY ENABLE
	A01B16	13			A01B17	02			16B	9				TCINJA	40	CONTINUITY ENABLE
1 1	A01B17	02			A01B17	06			16B	9				TCINJA	41	CONTINUITY ENABLE
	A01B17	06	'		A01B17	09			16B	9				TCINJA	42	CONTINUITY ENABLE
	A01B17	09			A01B17	13			16B	9				TCIN3A	43	CONTINUITY ENABLE
	A01B17	13	1		A01B18	02			16B	9				TCINJA	44	CONTINUITY ENABLE
	A01B18	02			A01B18	06			16B	9		1		TCINJA	45	CONTINUITY ENABLE
	A01818	00			AU 1818	13			168	9				TCINJA	40	CONTINUITY ENABLE
1	A01618	13			A01819	02			16B	9		1	1	TCINIA	44	CONTINUETY ENABLE
	A01819	02			A01B19	06			16B	9				TCINJA	49	CONTINUITY ENABLE
	A01B19	06			A01B19	09			16B	9				TCINJA	50	CONTINUITY ENABLE
(A01B19	09	(A01B19	13			16B	9		{	1	TCINJA	51	CONTINUITY ENABLE
	A01B19	13			A01B20	02			16B	9				TCINJA	52	CONTINUITY ENABLE
	A01B20	02			A01B20	06			16B	9				TCIN3A	53	CONTINUITY ENABLE
	AU1B20	06			A01B20	09			16B	9				TCIN3A	54	CONTINUITY ENABLE
	A01820	12			A01820	13			168	9				TCINJA	55	CONTINUITY ENABLE
	A01820	02			A01821	06			168	9				TCINGA	57	CONTINUITI ENABLE
	A01B21	06			A01B21	09			16B	9		l		TCINBA	58	CONTINUITY ENABLE
	A01B21	09	'		A01821	13			16B	9				TCINJA	59	CONTINUITY ENABLE
	A01B21	13		· ·	A01B22	02			16B	9				TCINJA	60	CONTINUITY ENABLE
	A01B22	02			A01B22	06			16B	9			1	TCINJA	61	CONTINUITY ENABLE
	A01B22	06			A01B22	09			16B	9				TCINJA	62	CONTINUITY ENABLE
	A01B22	09			A01B22	13		' I	16B	9		1	1	TCINJA	63	CONTINUITY ENABLE
	AUIBZZ	13			A01823	02			168	9			l	TCINSA	64 CF	CONTINUITY ENABLE
	AU 1823	06			AU 1823	00			168	9		1		TCINSA	600	CONTINUITY ENABLE
· ·	A01823	09			A01823	13			168	9		ł	1	TCINIA	67	CONTINUITE ENABLE
	A01B23	13			A01B24	02			16B	9		1	1	TCINJA	68	CONTINUITY ENABLE
	A01B24	02			A01B24	06			16B	9				TCINJA	69	CONTINUITY ENABLE

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued.

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<u> </u>	FROM	A		<u> </u>	то				ست سن	NIRE		Γ	Γ			
<u> </u>			Γ					MG				S L	ء ا		STRING	SIGNAL
PREFIX	CONNECTOR	PIN	SH	PREFIX	CONNECTOR	PIN	SH	URLO	CODE	COLOR	IDENT	E	PS	SIGNAL	SEQ.	DESCRIPTION
								ΤU				ν E	ľτ		NO.	
<u> </u>	101024	0.0	┢─		101824	0.0			169	•		1	┢─	TOTNON	70	CONTINUETRY FNARTE
	A01824	06			A01824	13			16B	9		1		TCINJA	71	CONTINUITY ENABLE
1	A01B24	13			A01D25	07			16B	9				TCIN3A	72	CONTINUITY ENABLE
	A01D25	07												TCINJA	73	CONTINUITY ENABLE
	201201	0.2			201201	06			16B	a				PDTN13	01	DATA ENABLE
	A01A01	06			A01A01	09			16B	9		1		TDINIA	02	DATA BRADES
	A01A01	09			A01A01	13			16B	9			İ.	TDIN1A	03	
	A01A01	13			A01A02	02			16B	9				TDIN1A	04	
	A01A02	02			A01A02	06			16B	9				TDIN1A	05	
	A01A02	06			A01A02	13			168	9				TDINIA	0.5	
	A01A02	13			A01A02	02			16B	9				TDIN1A	08	DATA ENABLE
	A01A03	02			A01A03	06			16B	9		1	1	TDINIA	09	DATA ENABLE
	A01A03	06			A01A03	09			16B	9				TDIN1A	10	DATA ENABLE
	A01A03	09			A01A03	13			16B	9				TDIN1A	11	DATA ENABLE
	A01A03	13			A01A04	02			16B	9				TDINIA	12	DATA ENABLE DATA ENABLE
	A01A04	02			A01A04	09			16B	9				TDINIA	14	DATA ENABLE
	A01A04	09			A01A04	13			16B	9				TDIN1A	15	DATA ENABLE
	A01A04	13			A01A05	02	1		16B	9				TDIN1A	16	DATA ENABLE
	A01A05	02			A01A05	06			16B	9				TDIN1A	17	DATA ENABLE
	A01A05	06			A01A05	09			168	9			1	TDINIA	18	DATA ENABLE Data Enable
	A01A05	13			A0 1A05	02			16B	9				TDINIA	20	DATA ENABLE
	A01A06	02			A01A06	06			16B	9				TDIN1A	21	DATA ENABLE
	A01A06	06			A01A06	09			16B	9		1	Ì	TDIN1A	22	DATA ENABLE
	A01A06	09			A01A06	13			16B	9				TDIN 1A	23	DATA ENABLE
	A01A06	13	1	1	A01A07	02			16B	9		1)	TDINIA	24	DATA ENABLE
	A01A07	02			A01A07	09			16B	9				TDINIA	26	DATA ENABLE
	A01A07	09			A01A07	13			16B	9				TDIN1A	27	DATA ENABLE
	A01A07	13	Į		A01A08	02		ļ	16B	9				TDIN1A	28	DATA ENABLE
ł	A01A08	02			A01A08	06			16B	9				TDIN1A	29	DATA ENABLE
	A01A08	06			A01A08	09			16B	9				TDIN1A	30	DATA ENABLE
	A0 1A08	13		1	A01A08	02			16B	9				TDINIA	32	DATA ENABLE
	A01A09	02		ĺ	A01A09	06			16B	9				TDIN1A	33	DATA ENABLE
	A01A09	06			A01A09	09			16B	9				TDINIA	34	DATA ENABLE
	A01A09	09			A01A09	13			16B	9				TDINIA	35	DATA ENABLE
	AU1A09	13			A01A10	02			16B	9				TOINIA	30	DATA ENABLE Data Enable
	A01A10	06			A01A10	09			16B	9				TDINIA	38	DATA ENABLE
ł	A01A10	09	1		A01A10	13			16B	9				TDIN1A	39	DATA ENABLE
1	A01A10	13	1		A01A11	02]]	16B	9		1		TDIN 1A	40	DATA ENABLE
	A01A11	02			A01A11	06			16B	9		{		TDIN1A	41	DATA ENABLE
	A01A11	06			A01A11	13			16B	9				TDINIA	42	DATA ENABLE DATA ENABLE
	A0 1A 1 1	13			A01A12	02	1		16B	9				TDINIA	44	DATA ENABLE
	A01A12	02			A01A12	06			16B	9				TDIN1A	45	DATA ENABLE
	A01A12	06			A01A12	09			16B	9				TDIN1A	46	DATA ENABLE
	A01A12	09			A01A12	13			16B	9				TDIN1A	47	DATA ENABLE
	AU 1A12	02			AU 1A13	06			16P	9				TDINIA	48	DATA ENABLE
	A01A13	06			A01A13	09			16B	9		ľ		TDINIA	50	DATA ENABLE
	A01A13	09			A01A13	13			16B	9		1	1	TDIN1A	51	DATA ENABLE
[A01A13	13		1	A01A14	02			16B	9				TDINIA	52	DATA ENABLE
	A01A14	02		ļ	A01A14	06		l	16B	9				TDIN1A	53	DATA ENABLE
	AU1A14	00			AU A14	13			168	9		1		TDINIA	54	DATA ENABLE
1	A01A14	13		1	A01A15	02	1		16B	9				TDIN1A	56	DATA ENABLE
	A01A15	02			A01A15	06			16B	9			1	TDIN1A	57	DATA ENABLE

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued.

	ERO			I	70						war		1	T	T	<u> </u>	T
	FROM	• 	т-		10	1	r	_			WIRE		s				
PREFIX	CONNECTOR	PIN	SH	PREFLY	CONNECTOR	ί.	N I	SH	M G U R	CODE	COLOR	IDENT	E	S	SIGNAL	STRING	SIGNAL
	CONNECTOR		FIG	I' ALLIA	CONNECTOR	'		FIG	LO	CODE	COLON	IDENT	E	c s	JUNAL	NO.	DESCRIPTION
									I P				Ē	'			
	A01A15	0.6			A01A15	00				168	0				TOTN1A	50	DATA ENABLE
	A01A15	09			A01A15	13				168	9				TDINIA	59	DATA ENABLE
	A01A15	13			A01A16	02				16B	9		1		TDIN1A	60	DATA ENABLE
	A01A16	02			A01A16	06				16B	9				TDIN1A	61	DATA ENABLE
	A01A16	06			A01A16	09				16B	9		ļ		TDIN1A	62	DATA ENABLE
	A01A16	09			A01A16	13	ł			16B	9		1		TDINIA	63	DATA ENABLE
	A01A16	13			A01A17	02				16B	9				TDIN1A	64	DATA ENABLE
	A01A17	02			A01A17	06				16B	9				TDIN1A	65	DATA ENABLE
	A01A17	06			A01A17	09				16B	9				TDINIA	66	DATA ENABLE
1	AU 1A 17	12			AU1A17	13	1			168	9				TDINIA	67	DATA ENABLE
1	A01A17	02			AU 1A 18	02	1			100	9				TDINIA	68	DATA ENABLE
	A01A18	06			A01A18	00				16B	9				TDINIA	70	DATA ENABLE
	A01A18	09			A01A18	13				16B	á		i i		TOTNIA	71	DATA ENABLE
	A01A18	13			A01D25	05				16B	9				TDINIA	72	DATA ENABLE
	A01D25	05													TDIN1A	73	DATA ENABLE
	A01A19	02	1		A01A19	06				16B	9				TFIN2A	01	FUNCTIONAL ENABLE
	A01A19	06			A01A19	09				16B	9				TFIN2A	02	FUNCTIONAL ENABLE
	A01A19	09			A01A19	13				16B	9			1	TFIN2A	03	FUNCTIONAL ENABLE
	AU 1A 19	13			A01A20	02				168	9				TFINZA	04	FUNCTIONAL ENABLE
	A01A20	02			AU 1A20	00				168	9				TFINZA	05	FUNCTIONAL ENABLE
	A01A20	09			A01A20	13				16B	9				TEIN2A	07	FUNCTIONAL ENABLE
	A01A20	13			A01A21	02				16B	9				TFIN2A	08	FUNCTIONAL ENABLE
	A01A21	02			A01A21	06	1			16B	9				TFIN2A	09	FUNCTIONAL ENABLE
	A01A21	06			A01A21	09				16B	9		1		TFIN2A	10	FUNCTIONAL ENABLE
	A01A21	09			A01A21	13				16B	9				TFIN2A	11	FUNCTIONAL ENABLE
	A01A21	13			A01A22	02				16B	9	•		ł	TFIN2A	12	FUNCTIONAL ENABLE
	A01A22	02			A01A22	06				16B	9				TFIN2A	13	FUNCTIONAL ENABLE
	A01A22	06			A01A22	09				16B	9			ŀ	TFIN2A	14	FUNCTIONAL ENABLE
	A01A22	09			A01A22	13				168	9				TFINZA	15	FUNCTIONAL ENABLE
	AU 1A22	13			AU 1A23	02	Í			168	9				TEINZA	17	FUNCTIONAL ENABLE
	A01A23	06			A01A23	00				16B	9				TEIN2A	18	FUNCTIONAL ENABLE
	A01A23	09			A01A23	13				16B	ē		1		TFIN2A	19	FUNCTIONAL ENABLE
	A01A23	13			A01A24	02	Į į			16B	9				TFIN2A	20	FUNCTIONAL ENABLE
	A01A24	02			A01A24	06				16B	9				TFIN2A	21	FUNCTIONAL ENABLE
	A01A24	06			A01A24	09				16B	9				TFIN2A	22	FUNCTIONAL ENABLE
	A01A24	09			A01A24	13				16B	9				TFIN2A	23	FUNCTIONAL ENABLE
	A01A24	13			A01A25	02				16B	9				TFIN2A	24	FUNCTIONAL ENABLE
	AU1A25	02			AU1A25	06				16B	9				TFINZA	25	FUNCTIONAL ENABLE
	AU 1825	00			AU 1825	12				160	9				TEINZA	20	FUNCTIONAL ENABLE
	A01A25	13			A01825	02				168				ŀ	TETN2A	28	FUNCTIONAL ENABLE
	A01A26	02			A01A26	06				16B	ا وَا				TFIN2A	29	FUNCTIONAL ENABLE
	A01A26	06			A01A26	09			1	16B	9				TFIN2A	30	FUNCTIONAL ENABLE
	A01A26	09			A01A26	13				16B	9			-	TFIN2A	31	FUNCTIONAL ENABLE
	A01A26	13			A01A27	02				16B	9			1	TFIN2A	32	FUNCTIONAL ENABLE
1	A01A27	02			A01A27	06				16B	9				TFIN2A	33	FUNCTIONAL ENABLE
	A01A27	06			A01A27	09				16B	9				TFIN2A	34	FUNCTIONAL ENABLE
	A01A27	09			A01A27	13				16B	9				TFIN2A	35	FUNCTIONAL ENABLE
	A01A27	13			A01A28	02				16B	9				TFIN2A	36	FUNCTIONAL ENABLE
	AU 1A28	02			AU 1A28	0.0				108	9				TEINZA	3/	FUNCTIONAL ENABLE
	AU 1A20	00			AU 1848	13				169	9				TEINCA	30	FUNCTIONAL ENABLE
	A01A28	13			A01A29	02				16B	9				TFIN2A	40	FUNCTIONAL ENABLE
	A01A29	02			A01A29	06				16B	9				TFIN2A	41	FUNCTIONAL ENABLE
	A01A29	06			A01A29	09				16B	9				TFIN2A	42	FUNCTIONAL ENABLE
	A01A29	09			A01A29	13				16B	9				TFIN2A	43	FUNCTIONAL ENABLE
	A01A29	13			A01A30	02				16B	9			1	TFIN2A	44	FUNCTIONAL ENABLE
	A01A30	02			A01A30	06				16B	9				TFIN2A	45	FUNCTIONAL ENABLE

	FROM	M			то					WIRE		Γ	[T .	
PREFIX	CONNECTOR	PIN	SH FIG	PREFIX	CONNECTOR	PIN	SH FIG	MG UR LO TU IP	CODE	COLOR	IDENT	S L E E V E	S N P S C T	SIGNAL	STRING SEQ. NO.	SIGNAL DESCRIPTION
	A01A30 A01A30 A01A30 A01B01 A01B01 A01B01 A01B01 A01B02 A01B02 A01B02 A01B02 A01B02 A01B02 A01B03 A01B03 A01B03 A01B03 A01B04 A01B04 A01B04 A01B05 A01B05 A01B05 A01B06 A01B06 A01D25	06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 00 06 00 9 13 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			A01A30 A01A30 A01B01 A01B01 A01B01 A01B01 A01B02 A01B02 A01B02 A01B02 A01B02 A01B03 A01B03 A01B03 A01B03 A01B04 A01B04 A01B04 A01B04 A01B05 A01B05 A01B05 A01B05 A01B05 A01B06 A01B06 A01D25	09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 02 06 09 13 002 009			16B 16B 16B 16B 16B 16B 16B 16B 16B 16B					TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A TFIN2A	$\begin{array}{r} 4 \ 6 \\ 4 \ 7 \\ 4 \ 8 \\ 4 \ 9 \\ 5 \ 0 \\ 5 \ 1 \\ 5 \ 5 \\ 5 \ 5 \\ 5 \ 5 \\ 5 \ 5 \\ 5 \ 5 \\ 5 \ 5 \\ 5 \ 5 \\ 5 \ 5 \\ 6 \ 1 \\ 6 \ 2 \\ 6 \ 6 \\ 6 \ 6 \\ 6 \ 6 \\ 6 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\$	FUNCTIONAL ENABLE FUNCTIONAL ENABLE
	A01C28 A01C28	03 05			A01C28	05			168	9				WTSSCA1 WTSSCA1	0102	STEP CP STEP CP
				-												

Table 5-6. MTS Test Aid Circuit Board Assembly Wire List - Continued.

APPENDIX A REFERENCES

DA Pam 310-1	Consolidated Index of Army Publications and Blank Forms.
SB 11-573	Painting and Preservation. Supplies Available for Field Use for Electronic Command Equipment.
TB 43-0118	Field Instructions for Painting and Preserving Electronics Command Equip- ment. Including Camouflage Pattern Painting of Electrical Equipment Shelters.
TM 38-750	The Army Maintenance Management System (TAMMS).
TM 740-90-1	Administrative Storage of Equipment.
TM 750-244-2	Procedures for Destruction of Electronics Material to Prevent Enemy Use (Electronics Command).
TM 11-6625-654-14	Operator's, Organizational, Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools List) for Multimeter AN/USM-223.
TM 11-6625-700-10	Operator's Manual Digital Readout, Electronics Counter AN/USM-207 (NSN 6625-00-911-6368).
TM 11-6625-1541-15	Operator, Organizational, Direct Support, General Support and Depot Maintenance Manual Hewlett-Packard RMS Voltmeter Model 3400A.
TM 11-6625-2735-14 0969-LP-170-1090 TO 33A1-13-498-1	Operator, Organizational, Direct Support and General Support Maintenance Manual (Including Depot Maintenance) for Oscilloscope OS-261/U (NSN 6625-00-127-0079).
TM 11-6625-2953-14	Operator, Organizational, Direct Support and General Support Maintenance Manual Multimeter AN/USM-451 (NSN 6625-00-060-6804).
TM 11-7010-201-40-1 ET821-AA-MMI-010/E154MTS TO 31S5-2TSQ73-2-1	General Support and Maintenance Manual: Electronics Circuit Plug-in Unit Test Set TS-3317()/TSQ-73 (NSN 1430-01-033-1078).
TM 11-7010-201-40P ET821-AA-PLG-O1O/E154MTS TO 31S5-2TSQ73-4	Repair Parts and Special Tools List (RPSTL): Electronic Circuit Plug-in Test Set TS-3317()/TSQ-73 (NSN 1430-01-033-1078).

APPENDIX B

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

B-1. Scope

This appendix lists expendable supplies and materials you will need to operate and maintain the TS-3317()/TSQ-73. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

B-2. Explanation of Columns

a. Column 1 - Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaning compound, item 5, App. D").

b. Column 2 - Level. This column identifies the lowest level of maintenance that requires the listed item.

- C Operator/Crew O - Organizational Maintenance
- F Direct Support Maintenance
- H General Support Maintenance

c. Column 3 - National Stock Number. This is the National stock number assigned to the item; use it to request or requisition the item.

d. Column 4 - Description. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the part number followed by the Federal Supply Code for Manufacturer (FSCM) in parentheses, if applicable.

e. Column 5 - Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

(1)	(2) National	(3)	(4)
Level	Stock Number	Description	U/M
Н	7920-00-924-5700	Cloth, Cleaning	EA
<u>н</u>	6850-00-105-3084	Trichlorotrifluoroethane	OZ

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PUBLICATION NUMBER BE EXACT PIN-POINT WHERE IT IS	T IN THE MAIL. DATE SENT PUBLICATION DATE PUBLICATION TITLE
PAGE GRAPH FIGURE TABLE NO. TABLE NO.	AND WHAT SHOULD BE DONE ABOUT IT.
DA 1 JUL 79 2028-2 PRE ARE	EVIOUS EDITIONS P.SIF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR E OBSOLETE. RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

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B COLOR CODE MARKING FOR MILITARY STANDARD INDUCTORS

BLACK

BROWN RED ORANGE YELLOW

GREEN BLUE PURPLE (VIOLE

GRAY WHITE

A. COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS

C. COLOR CODE MARKING FOR MILITARY STANDARD CAPACITORS

Figure FO-1. Standard Color Coding Chart

TM 11-7010-201-40-5/ET821-AA-MMI-050/E154 MTS/T O 31S5-2TSQ73-2-5

TM 11-7010-201-40-5/ET821-AA-MMI-050/E154 MTS/T.O. 31S5-2TSQ73-2-5

COLOR	MIL ID	1 ST 516 F16	2D SIG FIG	NU_TIPLIER	GAPACITANCE TOLERANCE				CHARACTERISTIC			DC WORKING VOL TAGE	OPERATING TEMP RANGE	VIBRATION GRADE
					CM	CN	CY	CB	CM	CN	CB	CM	CY, CM	CM
BLAC×	CM, CY CB	С	0	1			±20%	±20%		A			-55° 10+70° C	10-55 H Z
BROWN		Т	1	10					8	ε	8			
RED		2	2	100	±2%		±2%	±2%	c				-55* _{TO} +85*C	
ORANGE		3	3	1,000		<u>†</u> 30 %			D		2	300		
YELLOW		4	4	10.000					٤				-55* _{TO} +125*C	10-2,000H
GREEN		5	5		±5%				F			500		
BLUE		6	6										-55* _{TO} +190*0	
PURPLE (VIOLET)		7	7											
GRAY		8	8											
WHITE		9	9											
GOLD	1			01			±5%	15%						
SILVER	CN			0 O I	±10%	±10%	±10%	±10%						

TABLE 3 - FOR USE WITH STYLES CM, CN, CY AND CB.

TABLE 4 -- TEMPERATURE COMPENSATING, STYLE CC

COLOR	TEMPERATURE	IST	20		CAPACITANCE TOLERANCE			
	COEFFICIENT	FIG.	FIG.	MULTIPLIER	CAPACITANCES OVER 10 UUF	CAPACITANCES IO UUF OR LESS	ID	
BLACK	0	0	0	1		± 2.0 UUF	cc	
BROWN	- 30	1	Т	10	± 1%			
REC	-80	2	2	100	±2 %	±025UUF		
ORANGE	- 150	3	3	000.1				
YELLOW	-220	4	4					
GREEN	-330	5	5		±5%	± 0.5 UUF		
BLUE	-470	6	6					
PURPLE (VIOLET)	- 750	7	7					
GRAY		8	8	0 01*				
WH TE		9	9	0 1*	±10%			
GOLD	+ 100			0.1		± 1.0 UUF		
SILVER				0.01				

I THE MULTIPLIER IS THE NUMBER BY WHICH THE TWO SIGNIFICANT (SIG) FIGURES ARE MULTIPLIED TO OBTAIN THE CAPACITANCE IN UUF

2 LETTERS INDICATE THE CHARACTERISTICS DESIGNATED IN APPLICABLE SPECIFICATIONS. WIL-C-5, WIL-C-25D, WIL-C-11272B, AND WIL-C-10950C RESPECTIVELY.

3. VETTERS INDICATE THE TEMPERATURE RANGE AND VOLTAGE-TEMPERATURE LIMITS DESIGNATED IN HIL-C-U0150

4 TEMPERATURE COEFFICIENT IN PARTS PER MULLION PER DEGREE CENTIGRADE

* OPTIONAL CODING WHERE METALLIC PIGMENTS ARE UNDESIRABLE.

EL4QU042



NOTE: INDICATES EQUIPMENT MARKING.

EL4QU043


Figure FO-2. MTS Test Aid Schematic Diagram (Sheet 2 of 2)



EL4QU044

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