TECHNICAL MANUAL

MAINTENANCE INSTRUCTIONS
OPERATOR AND INTERMEDIATE MAINTENANCE

INTERFACE DEVICES

PART NO. 13202576 13202577 and 13202578

FOR

TEST STATION, ELECTRONIC EQUIPMENT, AN/USM-410(V)5

HELLFIRE MODULAR MISSILE SYSTEM

HOW TO USE THIS MANUAL

CHAPTER 1. INTRODUCTION

CHAPTER 2. OPERATOR MAINTENANCE INSTRUCTIONS

CHAPTER 3. INTERMEDIATE MAINTENANCE INSTRUCTIONS

APPENDIX A. REFERENCES

APPENDIX B. MAINTENANCE ALLOCATION CHART

APPENDIX C. EXPENDABLE SUPPLIES AND MATERIALS LIST

APPENDIX D. WIRE LIST

This copy is a reprint which includes current pages from Changes 1 through 2.

DEPARTMENT OF THE ARMY OCTOBER 1984

WARNING AND FIRST AID

WARNING

Personnel performing operation, procedures, and practices which are included or implied in this technical manual shall observe the following warnings. Disregard of these warnings and precautionary information can cause serious injury,

DEATH

or an aborted mission.

MECHANICAL

A FALLING HEAVY OBJECT CAN CAUSE SERIOUS INJURY TO PERSONNEL.

CHEMICAL

CLEANING SOLVENTS ARE EXTREMELY FLAMMABLE AND ARE ALSO TOXIC IF FUMES ARE INHALED DUE TO IMPROPER VENTILATION OF AREA.

ACCUMULATION OF FLAMMABLE VAPOR GASES MAY RESULT IN AN EXPLOSION.

KEEP OPEN FLAMES AWAY when using flammable cleaning solutions.

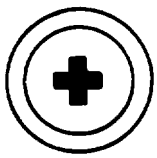
ELECTRICAL

Shock and death can occur from ELECTRICAL/ELECTRONIC SYSTEMS REGARDLESS OF VOLTAGE.

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

Make sure all power is removed prior to disconnecting, connecting, troubleshooting, or repairing any part of this system.

SAFETY



IN CASE OF AN ACCIDENT - NOTIFY YOUR SUPERVISOR IMMEDIATELY AND OBTAIN MEDICAL TREATMENT FOR ALL INJURIES.

See FM 21-11 for general First Aid data.

TECHNICAL MANUAL)
)
No. 9-4935-475-13)

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 1 OCTOBER 1984

MAINTENANCE INSTRUCTIONS OPERATOR AND INTERMEDIATE MAINTENANCE INTERFACE DEVICES FOR TEST STATION, ELECTRONIC EQUIPMENT, AN/USM-410(V)5 HELLFIRE MODULAR MISSILE SYSTEM

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 the back of this manual direct to: Commander, U.S. Army Missile Command, ATTN: AMSMI-LC-ME-PMS, Redstone Arsenal, Alabama 35898-5238. A reply will be furnished directly to you.

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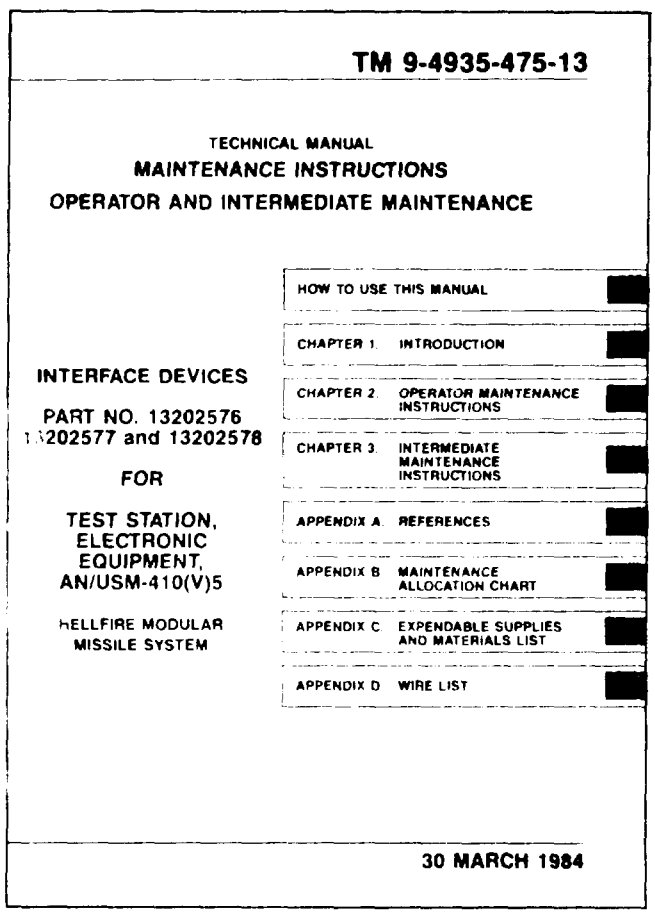
HOW TO USE THIS MANUAL

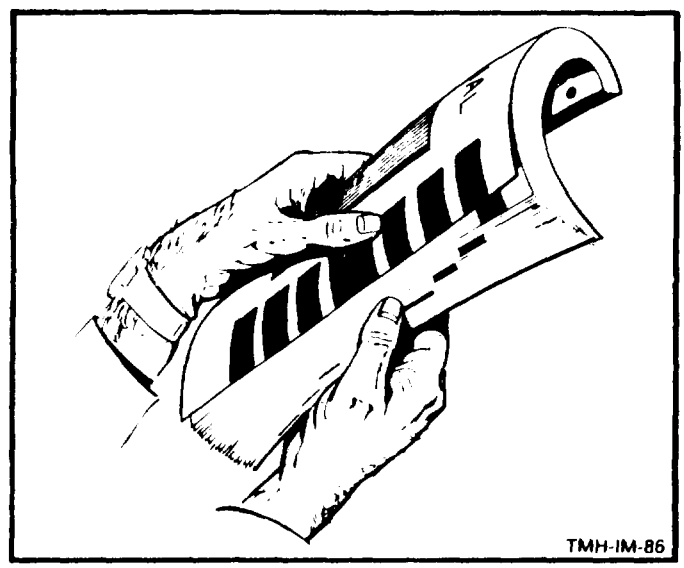
Take a few minutes to look through this manual. You will find that this manual is easier for you to read and use.

Each Chapter and Section is set up to lead you through it step by step.

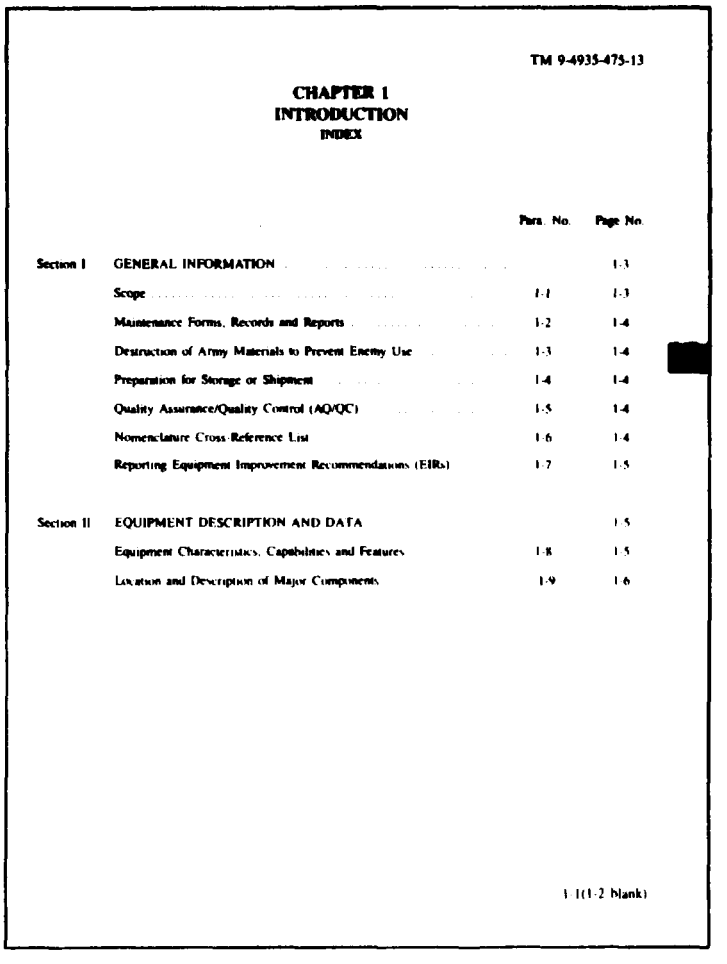
First, turn back to the cover. You see CHAPTER TITLES with black tabs on the right edge of the page. Now, you are ready to use the manual.

1. On the cover, see the CHAPTER TITLES, become familiar with each title.
2. Pick out the title you are looking for.
3. Bend the cover page and you will see that the black tab on the pages line up with the black tabs on the cover page.
4. Put your thumbnail on the back tab that is across from the chapter title you want to find. Flip the pages until you see the black tab that lines up with the tab on the cover.





5. You should now have the chapter page. On the chapter page, you will see a listing of the sections that are in that chapter. Listed under the section titles is a listing of tasks for that section. Find the job (by title) that you have been assigned to do. Now, look across from the job title, you will find the paragraph and page number of the job.



TM 9-4935-475-13

CHAPTER 1
INTRODUCTION
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		Para. No.	Page No.
Section I	GENERAL INFORMATION		1-3
	Scope	1-1	1-3
	Maintenance Forms, Records and Reports	1-2	1-4
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1-1(1-2 blank)

6. Now that you have located the page number, turn to that page and review the job requirements before starting the operations.

7. Did you notice that each task or job begins with an initial setup procedure?

   (a) The initial setup will list the configuration, test equipment, tools, materials, replacement parts, military occupational specialty (MOS), references, condition equipment should be in and general instructions to complete the task.

   (b) Now, what exactly does this mean to you? The term "INITIAL SETUP" means, "DO THIS FIRST, BEFORE STARTING THE JOB. " Review the example of an initial setup procedure and become familiar with the requirements.

(A) APPLICABLE CONFIGURATION. Configuration of the equipment you are working on.

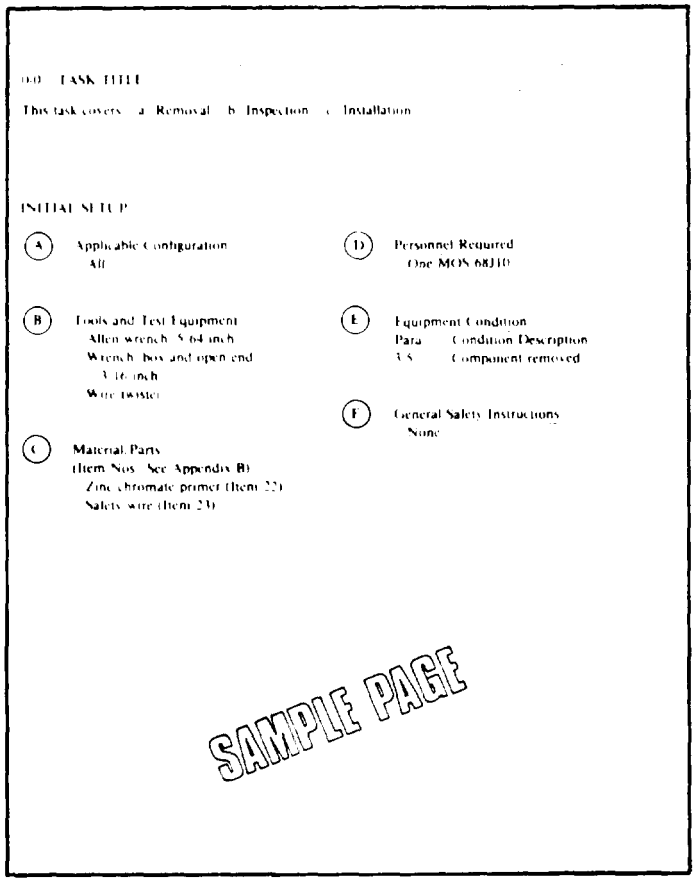
(B) TOOLS AND TEST EQUIPMENT. Tools and test equipment needed to perform the task. A complete list of all tools used in this manual can be found in the Maintenance Allocation Chart, Appendix B, located in the back of this manual.

(C) MATERIALS/PARTS. Materials and parts needed to perform the task. Materials can be found in Appendix C. Next to the name of the material listed in the initial setup procedures page you will find an (item No.). This number will match the item number in column (1) of Appendix C.

(D) PERSONNEL REQUIRED. MOS desired to do the task.

(E) EQUIPMENT CONDITION. The condition the equipment must be before starting the task. Equipment Condition for paragraph 2-7 states: Para. 2-6, actuating handle removed; this means that before you can start your task, the actuating handle must be removed. After you complete your task, it must be put back on.

(F) GENERAL SAFETY INSTRUCTIONS. Provides general safety information. Specific safety requirements will be furnished in procedures where they apply.


0.0 TASK TITLE

This task covers: a. Removal b. Inspection c. Installation

INITIAL SETUP

(A) Applicable Configuration
All

(D) Personnel Required
One MOS 68J10

(B) Tools and Test Equipment
Allen wrench, 5/64 inch
Wrench, box and open end
3/16 inch
Wire twister

(E) Equipment Condition
Para Condition Description
3-5 Component removed

(F) General Safety Instructions
None

(C) Material/Parts
(Item Nos. See Appendix B)
Zinc chromate primer (Item 22)
Safety wire (Item 23)

SAMPLE PAGE

8. You can also use the table of contents on page i of this manual to locate the page number for chapters and appendices.

9. Let's see if you understand how to find a specific job; your supervisor wants you to repair an Interface Device.

   (a) Obtain the correct TM for this job, TM 9-4935-475-13, OPERATOR AND INTERMEDIATE MAINTENANCE, HELLFIRE MODULAR MISSILE SYSTEM, INTERFACE DEVICES FOR TEST STATION ELECTRONIC EQUIPMENT AN/USM410(V)5 would be right.

   (b) Now, did you find the chapter title on the cover or did you use the table of contents? Remember, inspection is a maintenance task. So, if you have located the applicable Maintenance Instruction Chapter you are correct.

   (c) Looking at the section titles listed in maintenance chapter index, you should have located the paragraph and page number for the inspection task to be performed.

   (d) You would also be correct if you turned to the page number listed, found the right paragraph, and reviewed the job requirements.

CHAPTER 1
INTRODUCTION
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CHAPTER I
INTRODUCTION
Section I. GENERAL INFORMATION

1-1. SCOPE

Type of Manual: Operator and Intermediate Maintenance.

NOTE

THE INTERFACE DEVICES LISTED IN THIS TABLE ARE PART OF THE HELLFIRE TEST PROGRAM SET P/N 13202575

Model Numbers and Equipment Names:

TA113 Adapter Assembly (P/N 13202605)
Support Guide Assembly (P/N 13012119)
Support Guide Assembly (P/N 13012123)
TA119 Loadbox Assembly (P/N 13202610)
Holding Fixture Assembly (P/N 13012008)
Bracket Assembly (P/N 13012151)
TA120 Shorting Plug Assembly (P/N 13202640)
TA121 Shorting Plug (P/N 13012091)
TA122 Shorting Plug (P/N 13012093)
TA123 Shorting Plug (P/N 13202630)
TA124 Plug Assembly Shorting (P/N 13202584)
TA125 Plug Assembly Shorting (P/N 13202585)
TA126 Adapter Assembly, Launcher (2 EA) (P/N 13012051)
Lock, Shoe Adapter (P/N 13010752)
TA127 Cable Assembly (P/N 13202639)
TA128 Cable Assembly (P/N 13202638)
TA129 Circuit Card Assembly, Shorting (P/N 13012058)
TA132 Plug Assembly. Shorting (P/N 13202512)
TA130 Circuit Card Assembly, Shorting (P/N 13012059)
TA133 Shorting Plug Assembly (P/N 13202638)
TA134 Shorting Plug Assembly (P/N 13202634)
TA135 Circuit Card Assembly, Mux Signal (P/N 13012014)
TA139 AFT Adapter Assembly (P/N 13202560)
TA140 Circuit Card Assembly (P/N 13202654)
CA150 Cable Assembly (P/N 13202550)
CA151 Cable Assembly (P/N 13202551)
CA152 Cable Assembly (P/N 13202552)
CA153 Cable Assembly (P/N 13202553)
CA154 Cable Assembly (P/N 13202554)
CA155 Cable Assembly (P/N 13202555)
CA156 Cubic Assembly (P/N 13202556)
CA157 Cable Assembly (P/N 13202557)
CA158 Cable Assembly (P/N 13202558)
Ground Strap W-1 (P/N 13012056)

Purpose of Equipment: Provides interface capabilites between Unit Under Test and Test Station. Electronic Equipment. AN/USM-410(V)5.

1-2. MAINTENANCE RECORDS, FORMS, AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS). The DAP PAM is published in the Maintenance Management UPDATE. Units may subscribe to Maintenance Management UPDATE by submitting a completed DA Form 12-13.

1-3. DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE

Refer to TM 750-244-2 for Destruction Procedures.

1-4. PREPARATION FOR STORAGE OR SHIPMENT

Repack items in original containers for shipment or storage.

1-5. QUALITY ASSURANCE/QUALITY CONTROL (AQ/QC)

Refer to TM 55-0411.

1-6. NOMENCLATURE CROSS REFERENCE LIST

This listing includes nomenclature cross references used in this manual.

Common Name	Official Nomenclature
Cable (with model number)	Cable Assembly (with model number)
Board Guides	Support Guide Assembly
Loadbox	Loadbox Assembly
PIU	Programmable Interface Unit
PIU Adapter	Adapter Assembly, TA113
Rail Adapter	Adapter Assembly, Launcher Missile
Test Station	Test Station, Electronic Equipment, AN/USM-410(V)5
ZIF Connector	Zero Insertion Force Connector
CCA	Circuit Card Assembly

1-7. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs)

If your Interface Devices need 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 or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at; Commander, U.S. Army Missile Command, ATTN: AMSMI-QA-QM-QD, Redstone Arsenal, AL 35898-5238. We will send you a reply.

Section II. EQUIPMENT DESCRIPTION AND DATA

1-8. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

Characteristics:

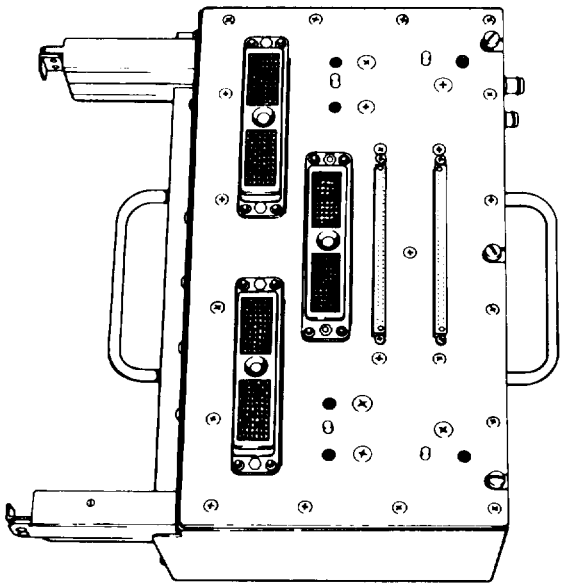
- Used with Test Station, Electronic Equipment, AN/USM-410(V)5 to provide for Test and Fault Isolation Capability of Interface Devices (self test), HMMS Launcher, and Launcher Components.

Capabilities and Features:

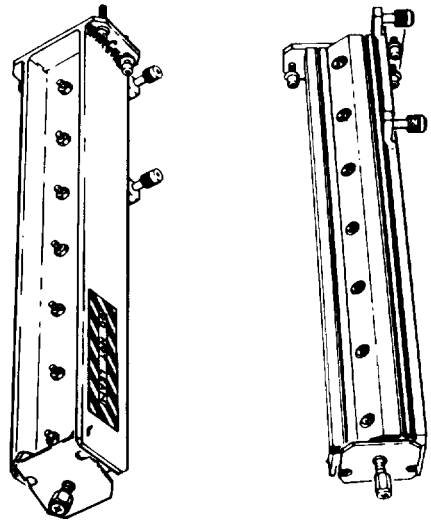
- Transmits stimuli to and responses from the unit under test.
- Adapts unit under test to test set and provides load for testing.

1-9. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

a. PIU Adapter:



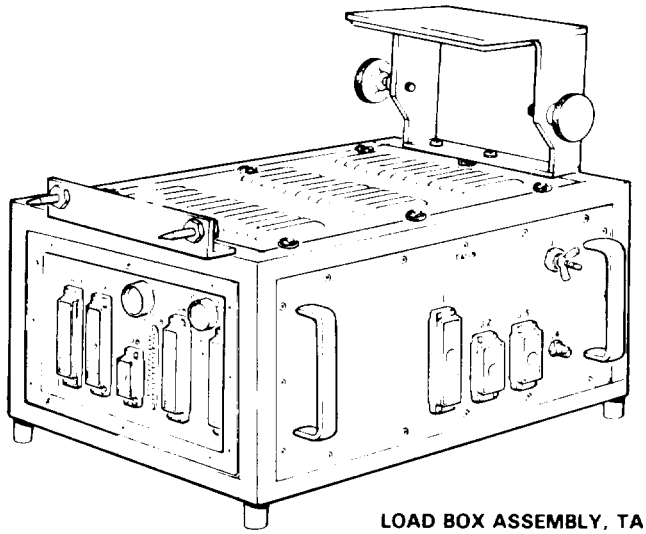
ADAPTER ASSEMBLY, TA113



SUPPORT GUIDE ASSEMBLIES

ID-100

b. Loadbox Assembly:

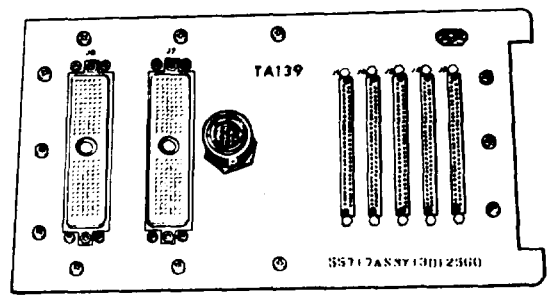


LOAD BOX ASSEMBLY, TA119

ID-101

1-9. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (Cont)

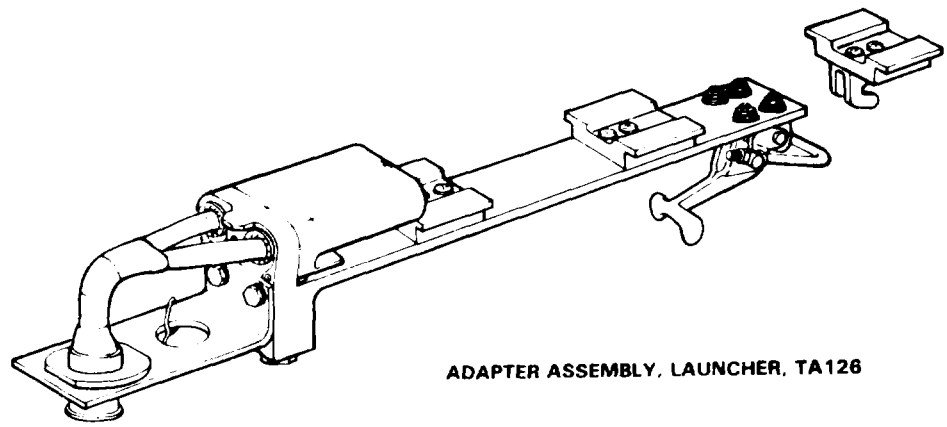
c. AFT Adapter Assembly:



AFT ADAPTER ASSEMBLY, TA139

ID-102

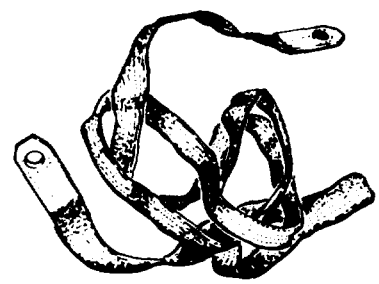
d. Rail Adapter:



ADAPTER ASSEMBLY, LAUNCHER, TA126

ID-103

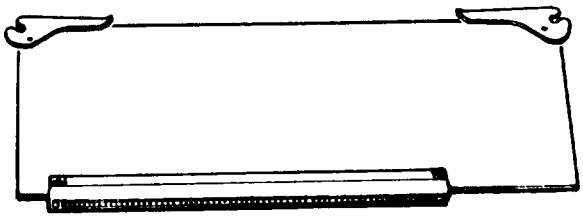
e. Ground Strap:



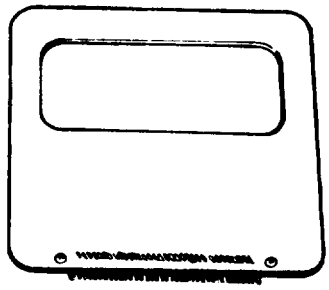
GROUND STRAP, W-1

ID-104

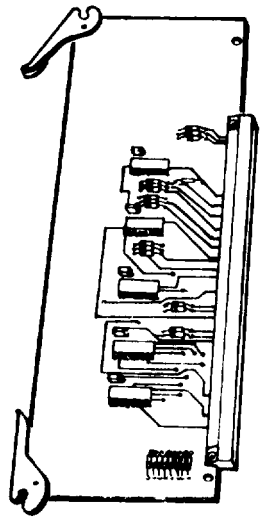
1-9. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (Cont)



CIRCUIT CARD ASSEMBLY, SHORTING, TA130



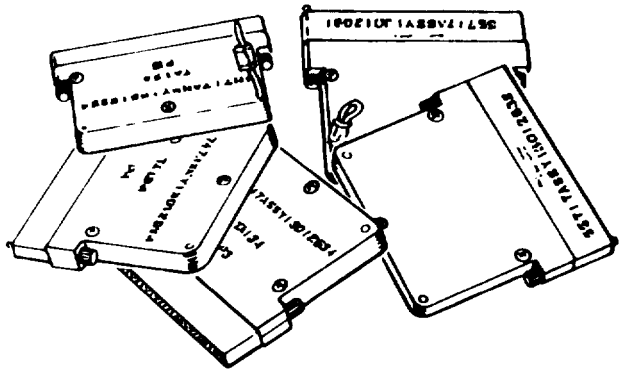
CIRCUIT CARD ASSEMBLY, SHORTING TA129/TA140 (TYPICAL)



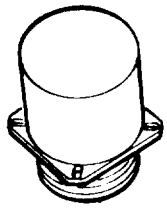
CIRCUIT CARD ASSEMBLY, CONDITIONER MUX SIGNAL, TA-135

g. Shorting Plugs:

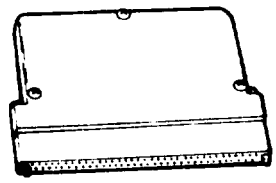
ID-105



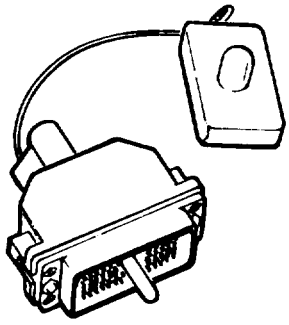
SHORTING PLUG, TA120/TA134 (TYPICAL)



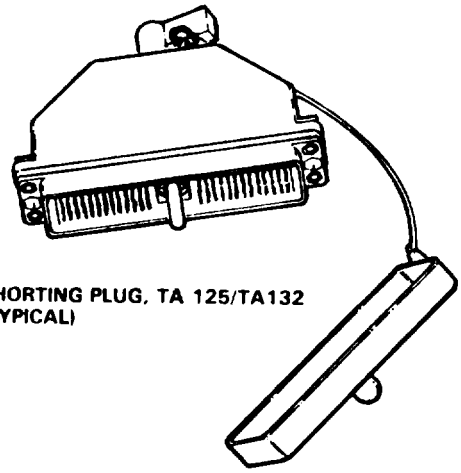
SHORTING PLUG, TA121/TA122 (TYPICAL)



SHORTING PLUG, TA123



SHORTING PLUG, TA124

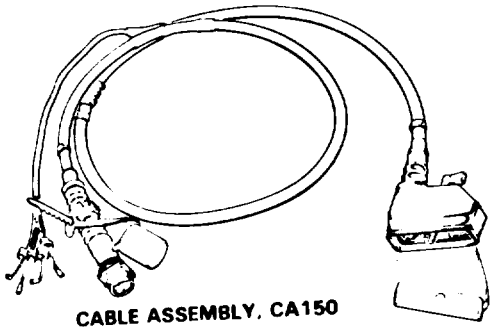


SHORTING PLUG, TA 125/TA132 (TYPICAL)

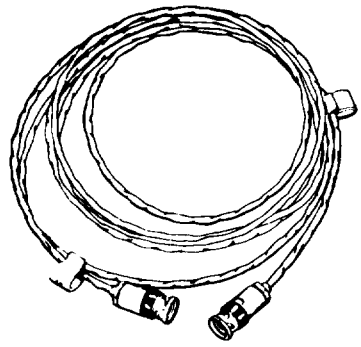
SHORTING PLUG, TA133

1-9. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (Cont)

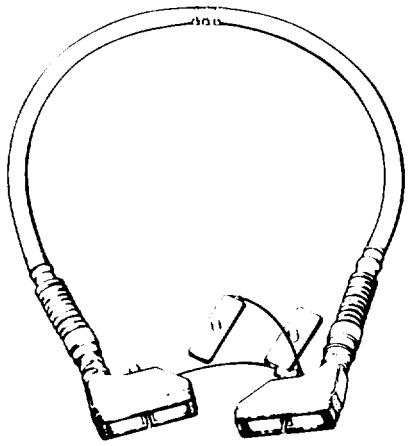
h. Cable Assemblies:



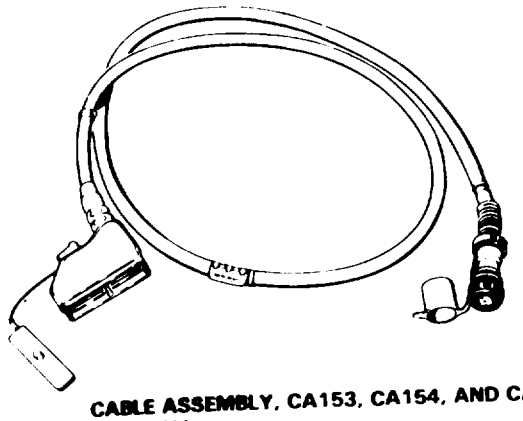
CABLE ASSEMBLY, CA150



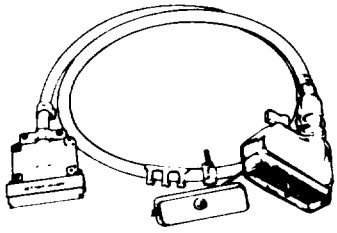
CABLE ASSEMBLY, CA151



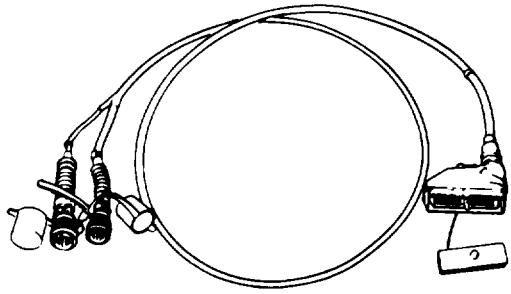
CABLE ASSEMBLY, CA152



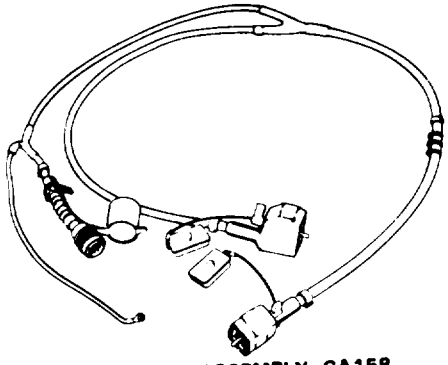
CABLE ASSEMBLY, CA153, CA154, AND CA155 (TYPICAL)



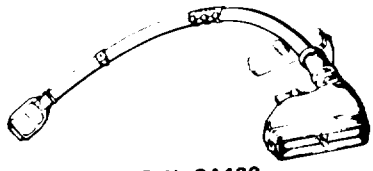
CABLE ASSEMBLY, CA156



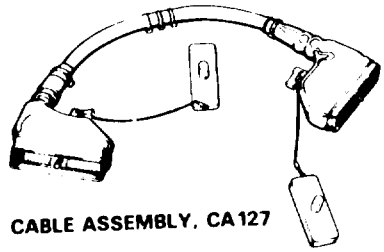
CABLE ASSEMBLY, CA157



CABLE ASSEMBLY, CA158



CABLE ASSEMBLY, CA128



CABLE ASSEMBLY, CA127

ID-107

CHAPTER 2
OPERATOR MAINTENANCE INSTRUCTIONS
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CHAPTER 2
OPERATOR MAINTENANCE INSTRUCTIONS
Section I. LUBRICATION INSTRUCTIONS

2-1. GENERAL

There are no lubrication requirements on this equipment.

Section II. TROUBLESHOOTING PROCEDURES

2-2. GENERAL

Troubleshooting is accomplished by automatic testing using the A/N USM-410(V)5 Test Station. Refer to TM 9-1425-475-30-2.

Section III. MAINTENANCE PROCEDURES

2-3. GENERAL

Operator Maintenance consists of inspection of the Interface Devices and containers to ensure that equipment is serviceable for use.

2-4. INSPECTION

a. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report damage on DD Form 6, Packaging Improvement Report.

b. Check the equipment against the packing slip to see the shipment is complete. Report all discrepancies in accordance with instructions of DA PAM 738-750.

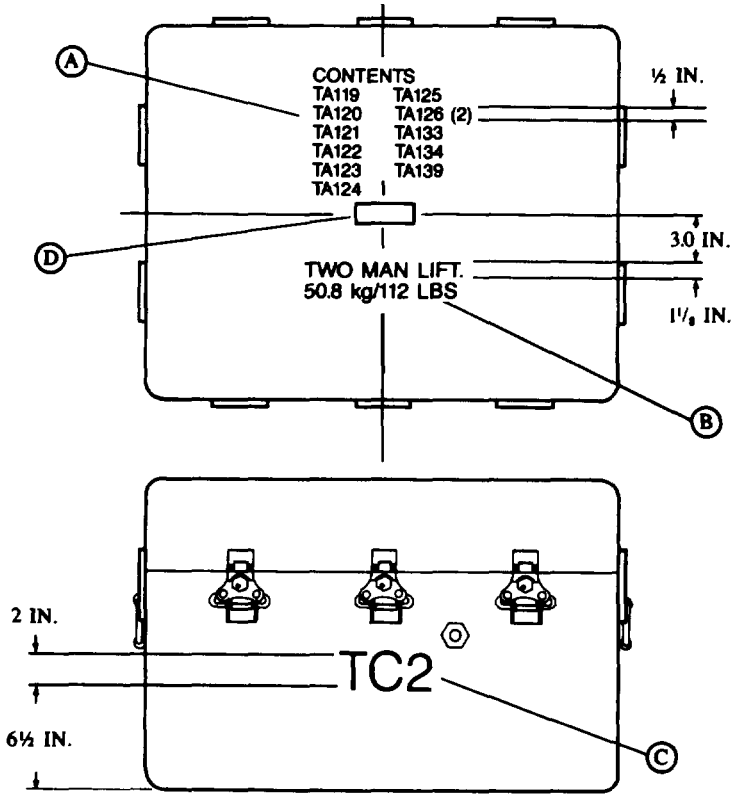
2-5. INSPECTION OF INTERFACE DEVICES AND CONTAINERS

LOCATION	ITEM	ACTION	REMARKS
Container Exterior	Body	a. Cracks	Reject container
		b. Dents that will prohibit intended use	Reject container
	Breather Valve	Proper operation of pressure relief button	Reject container
	Handle Assembly	a. Missing, loose or broken	Reject container
		b. Rivets loose or missing	Reject container
	Latch Assembly	Missing or broken	Reject container
	Markings	Missing or illegible	Re-mark
Container Interior	Insert Cushion	Missing or deformed	Reject container
Loadbox, TA119	Connectors	Loose or broken	Reject loadbox
	Handles	Loose or broken	Reject loadbox
	Bumpers	Missing or broken	Reject loadbox
	Ground Stud	a. Broken or loose	Reject loadbox
		b. Missing wingnut	Reject loadbox
	Top/Bottom Louver Panel	a. Missing	Reject loadbox
		b. Loose	Tighten fasteners
	ECSP Holding Fixtures	a. Missing screws	Reject holding fixture
		b. Loose or missing alignment pins	Reject holding fixure
		c. Bent or broken	Reject holding fixture
Adapter Assembly, TA113	Connectors	Loose or broken	Reject adapter
	Handles	Loose or broken	Reject adapter

LOCATION	ITEM	ACTION	REMARKS
Adapter Assembly, TA113 (cont)	Circuit Card Guides	Loose or broken	Reject adapter
	Support Guide Assemblies	a. Missing screws/fasteners	Reject guide assembly
		b. Damaged guide chanels	Reject guide assembly
		c. Decal missing	Replace decal
AFT Adapter Assembly, TA139	Connectors	Loose or broken	Reject AFT adapter
Adapter Assembly Launcher, TA126	Connectors	Loose or broken	Reject adapter
	Shoes	Loose or missing	Reject adapter
	Clamp Assembly	Loose or broken	Reject adapter
	Lock Shoe Adapter	Missing/loose or damaged parts	Reject lock shoe adapter
Circuit Card Assemblies	Connectors	Loose or broken	Reject CCA
	Mux CCA Components	Missing or damaged	Reject Mux CCA
Shorting Plugs	Connector(s)	Damaged pins	Reject shorting plug
	Actuating Handle (if applicable)	Broken or missing	Reject shorting plug
	Protective Cap/Lanyard (if applicable)	Broken or missing	Reject shorting plug
Cable Assemblies	Connectors	a. Damaged pin(s)	Reject cable
		b. Broken	Reject cable
	Actuating Handle(s) (if applicable)	Missing or broken	Reject cable
	Protective Cap/Lanyard (if applicable)	Broken or missing	Reject cable

2-5. INSPECTION OF INTEREACE DEVICES AND CONTAINERS (Cont)

LOCATION	ITEM	ACTION	REMARKS
Cable Assemblies (cont)	Protective Boot (if applicable)	Missing or torn	Reject cable
	Terminal Lug (CA158 only)	Missing or broken	Reject CA158



	COLORS/MARKINGS	
DETAIL A	WHITE (item 15)	"CONTENTS" AND LIST OF CONTENTS
DETAIL B	YELLOW (item 16)	TWO MAN LIFT 40.4Kg/89 LBS (TC-1) 50.8Kg/112 LBS (TC-2) 46.7Kg/103 LBS (TC-3)
DETAIL C	WHITE (item 15)	TC-1, TC-2, TC-3 (as appropriate) (4 Places)
DETAIL D		IDENTIFICATION PLATE Wipe area clean with denatured alcohol, activate adhesive backing with solvent and press into place.

TRANSIT CASE MARKINGS **ID-169A**

CHAPTER 3
INTERMEDIATE MAINTENANCE INSTRUCTIONS
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CHAPTER 3
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CHAPTER 3
INTERMEDIATE MAINTENANCE INSTRUCTIONS
Section I. REPAIR PARTS, SPECIAL TOOLS, TMDE AND SUPPORT EQUIPMENT

3-1. COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

3-2. SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

Multimeter, NSN: 6625-00-135-0407 (or equivalent).

3-3. REPAIR PARTS

Repair parts are listed and illustrated in the Repair Parts and Special Tools List TM 9-4935-475-30P.

Section II. MAINTENANCE PROCEDURES

3-4. GENERAL

a. This section contains intermediate maintenance procedures for the HELLFIRE Modular Missile System Interface Devices for the Test Station, Electronic Equipment, AN/USM-410(V)5.

b. Simple repair procedures for which no guidance is required are not provided in this manual. Refer to the Maintenance Allocation Chart (MAC) located in Appendix B, and the Repair Parts and Special Tools List, TM 9-4935-475-30P.

3-5. TROUBLESHOOTING

a. Interface Devices and Accessories troubleshooting is accomplished primarily by the AN/USM-410(V)5 Test Station. However, it may be necessary to perform a visual inspection and point to point continuity test, particularly when wiring is suspected.

b. A machine print-out which lists the fault will accompany the defective device to the repair area.

c. If the fault is a faulty component, the component will be listed.

(1) If more than one component is listed, they will be listed in the most likely to fail order.

(2) Remove and replace components in the order listed and retest after each component replacement.

d. If the fault is a shorted or open circuit, the print-out will list the fault between two points or between two groups of points. When groups of points are listed, perform point to point continuity test to isolate the fault between two groups. Refer to the print-out example.

(1) Test between any point listed in Group 1, sub-group 1.1 and any point of each sub-group of Group 2, or until fault sub-groups are isolated. If fault is not isolated, repeat procedure with sub-group 1.2 and each sub-group of Group 2. Continue in this manner until fault is isolated between two sub-groups.

(2) Refer to the wire list, Appendix D, for further fault isolation points when fault has been isolated to two sub-groups.

PRINT-OUT EXAMPLE

G52800-1 4185879.78 OHMS (GT 8 RQD)
G52800-2 158.50 OHMS (GT 8 RQD)
G52800-3 4058187.27 OHMS (GT 8 RQD)
G52800-4 4314081.05 OHMS (GT 8 RQD)
G52800-5 4109258.08 OHMS (GT 8 RQD)
G52800-7 4453140.17 OHMS (GT 8 RQD)
G53000-1 158.00 OHMS (GT 8 RQD)
G53000-2 4517547.35 OHMS (GT 8 RQD)
G53100-1 1.10 OHMS (GT 8 RQD)

} DIAGNOSTICS (disregard for troubleshooting)

GROUP 1 TA119 SHORTED BETWEEN:

1.1 (LN 12X) J1-M2 J1-M5 J1-L3 J1-N2 J1-C1 J1-C4 J1-Y1 J1-L2 J1-Y5 J2-07 J2-D8 J2-E1 J2-E2 J4-B1 J5-F1 J5-F3 J5-R2 J5-P4 J5-X4 J6-X5 J10-W2 J10-W3 J10-W4 J10-W6 J10-Y6 J12-D5

1.2 OR (LN 124) J1-V1 J4-A1 J6-J4 J6-A3 J10-N2 J10-N4 A2-K2B2 A2-W3

1.3 OR (LN 144) J1-M1 J1-M4 J1-N3 J6-V2 A2-K1A2 A5-W1

1.4 OR (LN 146) J1-Y3 J1-Y6 J6-W1 J10-A5 J10-G4 J10-G5 J10-W1 A2-W4

1 4433900.87 OHMS (GT 10 RQD)
2 4439380.83 OHMS (GT 10 RQD)
3 4619212.69 OHMS (GT 10 RQD)
4 23.25 OHMS (GT 10 RQD)
5 42.28 OHMS (GT 10 RQD)
6 42.96 OHMS (GT 10 RQD)
7 101.22 OHMS (GT 10 RQD)
8 101.05 OHMS (GT 10 RQD)
9 4178575.35 OHMS (GT 10 RQD)
10 4483712.95 OHMS (GT 10 RQD)
11 1.37 OHMS (GT 10 RQD)

} DIAGNOSTICS (disregard for troubleshooting)

GROUP 2 **AND**

2.1 (LN 168) J12-F3 J12-M2 J12-W2 A2-K2A1

OR

2.2 (LN 169) J12-F4 J12-M3 J12-W3 A2-K2B1

OR

2.3 (LN 170) J12-F5 J12-M4 J12-W4 A2-K2B3 A2-K2B2

3-6. REMOVE/INSTALL CABLE ASSEMBLY OR SHORTING PLUG ACTUATING HANDLE

This task covers: Removal. Installation.

INITIAL SETUP

Applicable Configurations

All cables/shorting plugs with actuating handles

Tools and Test Equipment

Screwdriver, Flat Tip 3/8-inch blade

Materials/Parts (Item Nos; See Appendix C)

Actuating Handle

Personnel Required

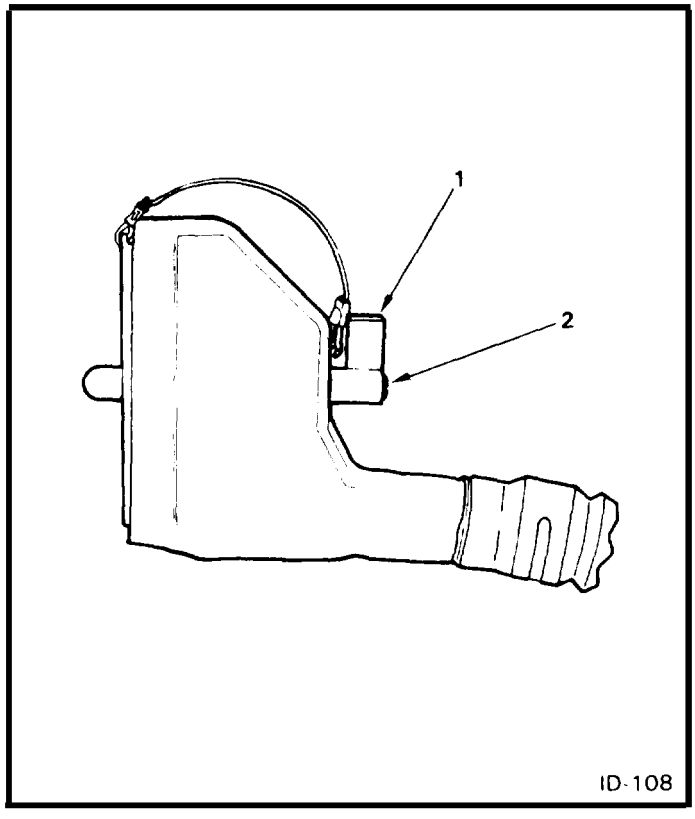
One MOS 35C10

REMOVAL

1. **REMOVE ACTUATING HANDLE (1).**

   a. Remove attaching screw (2), retain for reuse.

   b. Remove actuating handle (1) from actuator shaft.



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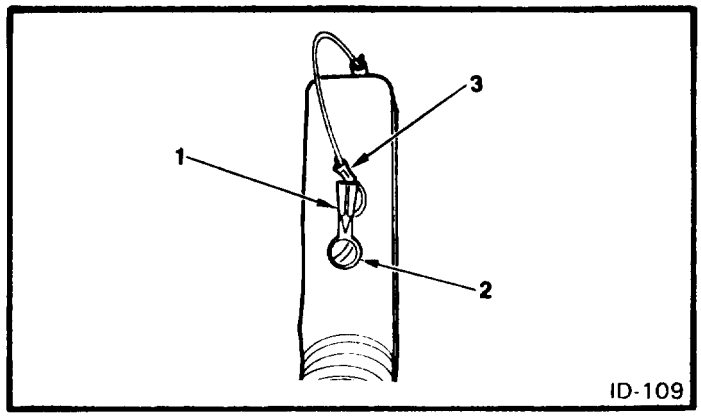
3-6. REMOVE/INSTALL CABLE ASSEMBLY OR SHORTING PLUG ACTUATING HANDLE (Cont)

INSTALLATION

1. INSTALL ACTUATING HANDLE (1).



NOTE

- **ENSURE PROTECTIVE CAP LANYARD (3) IS IN PLACE BEFORE INSTALLING HANDLE.**
- **ENSURE ACTUATOR SHAFT IS IN THE UNLOCKED (FULLY COUNTER CLOCK-WISE) POSITION BEFORE INSTALLING HANDLE.**

a. Position actuating handle (1) on actuator shaft with arrow in direction of wire harness.

b. Install attaching screw (2) and tighten.

END OF TASK

3-7. REMOVE/INSTAl.L CABLE ASSEMBLY OR SHORTING PLUG PROTECTIVE CAP AND ATTACHING LANYARD.

This task covers: Removal. Installation.

INITIAL SETUP

Applicable Configurations

All cables/shorting plugs with protective caps retained by a lanyard.

Tools and Test Equipment

Pliers, Diagonal Cut
Swaging Tool

Materials/Parts (Item Nos.; See Appendix C)

Lanyard
Protective Cap

Personnel Required

One MOS 35C10

Equipment Condition

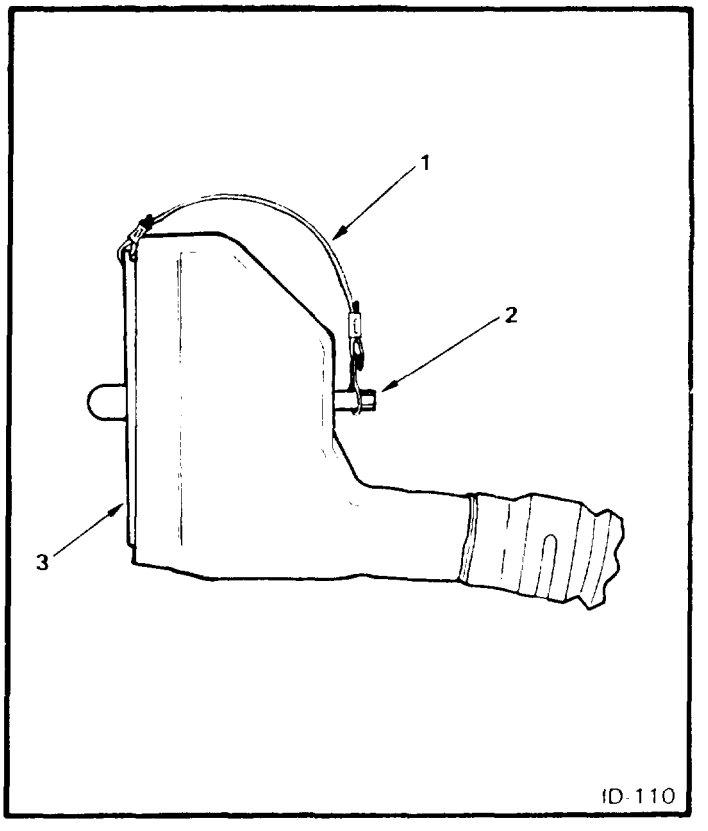
Para	Condition Description
3-6	Actuating Handle Removed

GO TO NEXT PAGE

3-7. REMOVE/INSTALL CABLE ASSEMBLY OR SHORTING PLUG PROTECTIVE CAP AND ATTACHING LANYARD

NOTE

IF PROTECTIVE CAP IS UNSERVICEABLE. BOTH CAP AND LANYARD WILL BE REPLACED.



REMOVAL

1. REMOVE LANYARD (1) AND PROTECTIVE CAP (3).

a. Slide lanyard loop off actuator shaft (2).

b. Ensure actuator is in the unlocked position and remove cap (3).

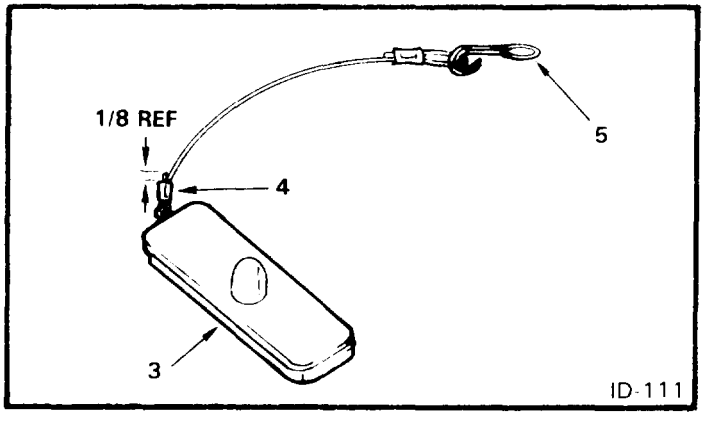
c. Cut lanyard from protective cap (3).

INSTALLATION

1. **INSTALL LANYARD (1) AND PROTECTIVE: CAP (3).**

NOTE

APPROXIMATELY 1/8-INCH OF THE LANYARD SHOULD PROTRUDE BEYOND THE FERRULE AFTER CRIMIPING.



a. Attach lanyard (1) to projective cap (3) and crimp ferrule (4).

b. Slide lanyard loop over actuator shaft (2).

c. Install protective cap (3).

END OF TASK

3-8. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG CA150 P1, CA152 P1/P2, CA153 P2, CA154 P2, CA155 P2, CA156 P1, CA157 P3, CA158 P2/P3, TA127 P1/P2 OR TA128 P1

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, flat 3/16-inch blade.
Installation/removal tool.

Materials/Parts (Item Nos.; See Appendix C)

Identification Labels (Item 1)
Connector Plug

Personnel Required

One MOS 35C10

Equipment Condition

Para. Condition Description

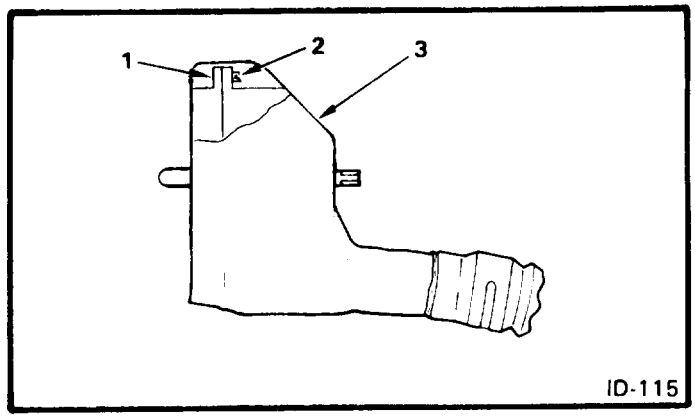
3-6 Actuating handle removed.

3-7 Protective cap and attaching lanyard removed.

REMOVAL

1. **SEPARATE CONNECTOR PLUG (1) FROM CONNECTOR SHELL (2).**

   a. Roll back protective boot (3).



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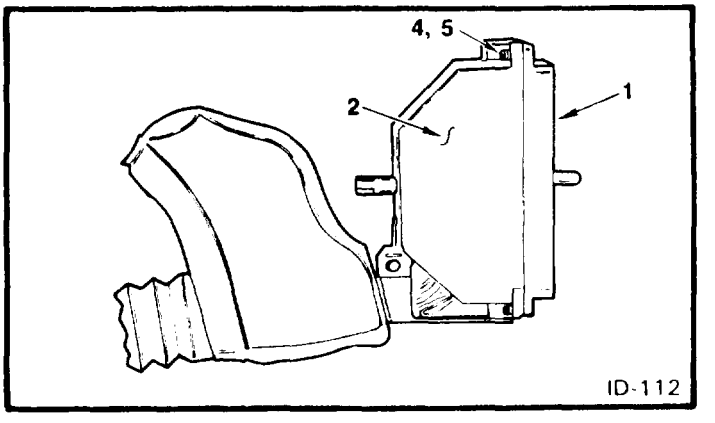
3-8. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG CA150 P1, CA152 P1/P2, CA153 P2, CA154 P2, CA155 P2, CA156 P1, CA157 P3, CA158 P2/P3, TA127 P1/P2 OR TA128 P1 (Cont)

b. Remove four screws (4) and four nuts (5).

c. Pull connector plug from connector (1) shell (2) to gain access to contacts.

2. **REMOVE CONTACTS** from connector plug and label contacts with pin numbers.



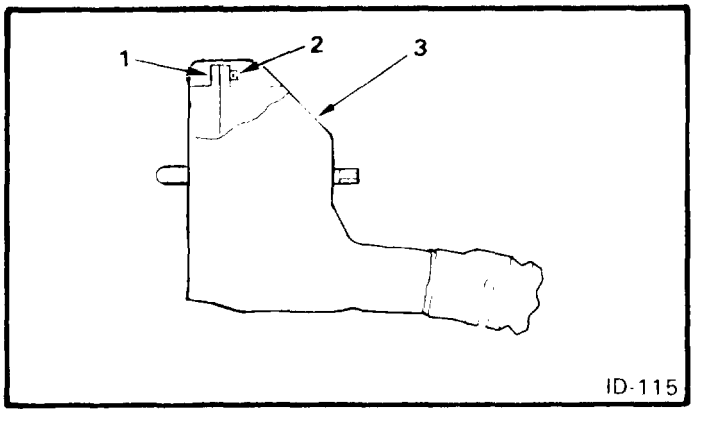
INSTALLATION

1. **INSTALL CONTACTS** in connector plug and remove labels.

2. **INSTALL CONNECTOR PLUG (1) IN CONNECTOR SHELL (2).**

a. Mate connector plug (1) to connector shell (2) and install four screws (4) and four nuts (5) and tighten.

b. Position protective boot (3) over connector.



END OF TASK

3-9. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG CA150 P2, CA153 P1, CA154 P1, CA155 P1, CA157 P1/P2, OR CA158 P1

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Pliers, connector
Installation/removal tool
Positioner
Wrench, hex head, 3/64-inch

Materials/Parts (Item Nos; See Appendix C)

Identification Labels (Item 1)
Connector Plug

Personnel Required

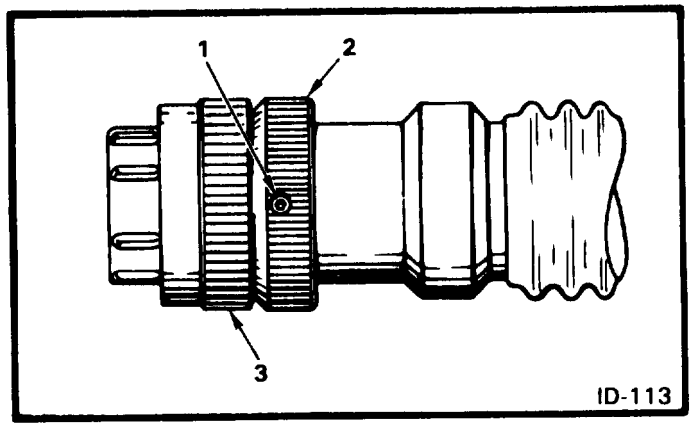
One MOS 35C10

REMOVAL

NOTE

CONNECTORS CA150 AND CA158 P1 DO NOT HAVE SETSCREWS. OMIT STEP 1 FOR THESE CONNECTORS

1. **LOOSEN SETSCREW** (1) on adpater (2).
2. **UNSCREW ADAPTER** (2) from connector plug (3).



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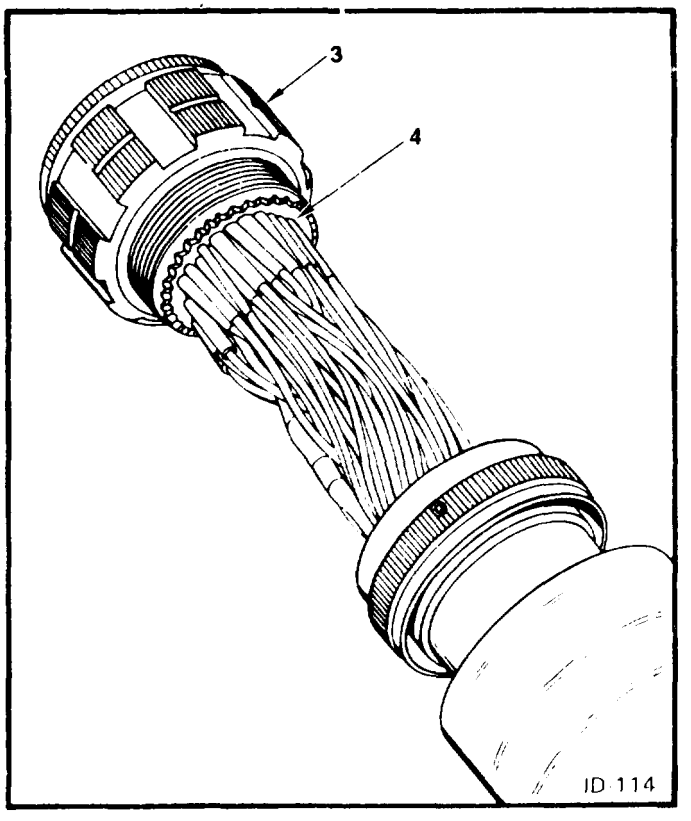
3-9. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG CA150 P2, CA153 P1, CA154 P1, CA155 P1, CA157 P1/P2, OR CA158 P1 (Cont)

3. **PULL CONNECTOR PLUG (3) OUT** to gain access to contacts.

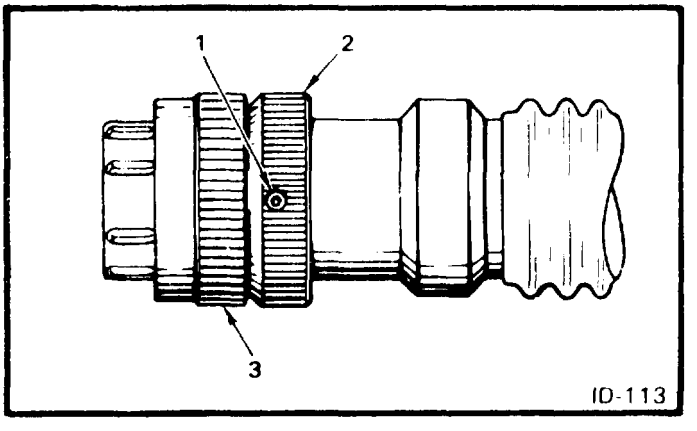
4. **REMOVE CONTACTS** (4) from connector plug and label contacts with pin numbers.



INSTALLATION

1. **INSTALL CONTACTS** (4) in connector plug (3) and remove labels.

2. **MATE CONNECTOR PLUG (3) TO ADAPTER** (2) and tighten adapter.



NOTE

CONNECTORS CA150 P2 and CA158 P1 DO NOT HAVE SETSCREWS. OMIT STEP 3 FOR THESE CONNECTORS.

3. **TIGHTEN SETSCREW (1).**

END OF TASK

3-10. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG TA128 P2

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, flat tip, 3/16-inch blade
Installation/removal tool

Materials/Parts (Item Nos.; See Appendix C)

Identification Labels (Item 1)
Connector Plug

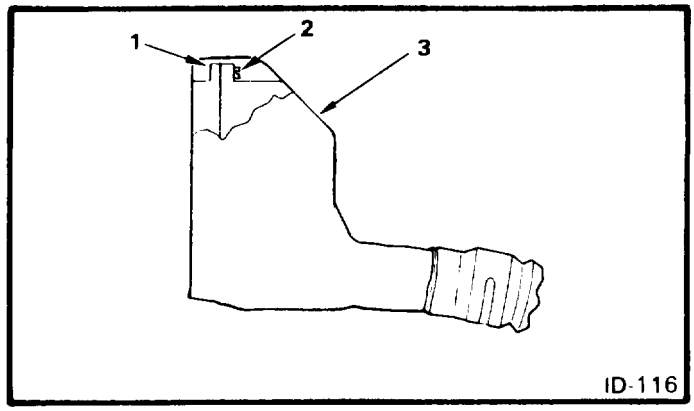
Personnel Required

One MOS 35C10

REMOVAL

1. **SEPARATE CONNECTOR PLUG (1) FROM CONNECTOR SHELL (2).**

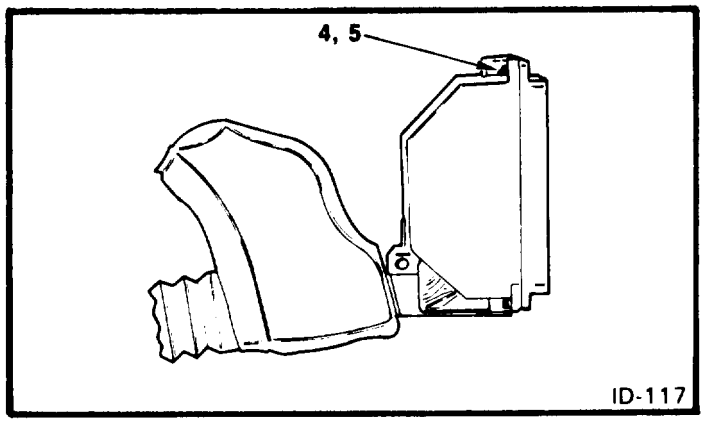
   a. Roll back protective boot (3).



   b. Remove four screws (4) and four nuts (5).

   c. Pull connector plug (1) from connector shell (2) to gain access to contacts.

2. **REMOVE CONTACTS** from connector plug and label contacts with pin numbers.



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3-10. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG TA128 P2 (Cont)

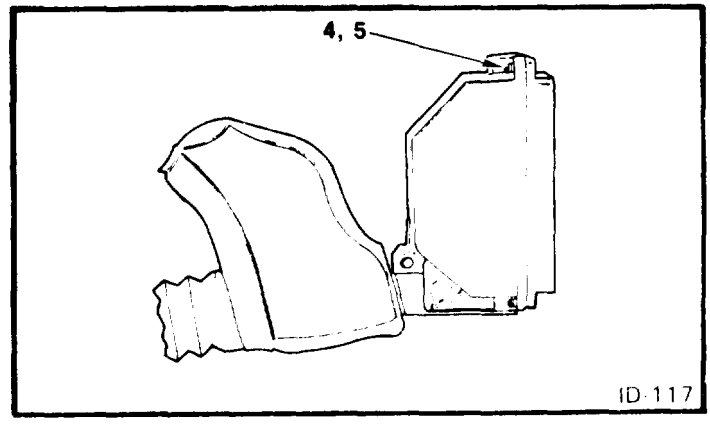
INSTALLATION

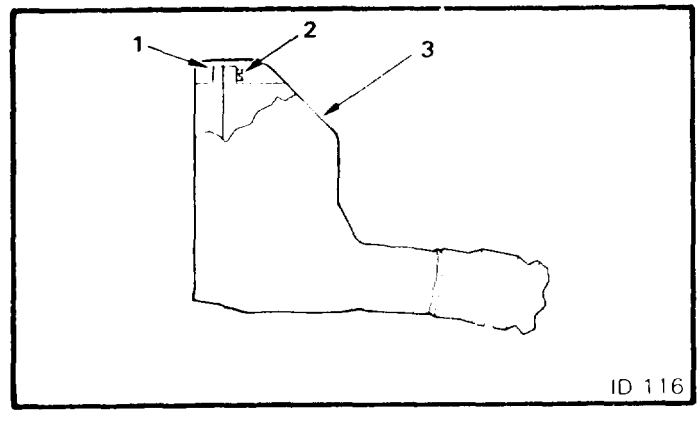
1. **INSTALL CONTACTS** in connector plug and remove labels.

2. **INSTALL CONNECTOR PLUG (1) IN CONNECTOR SHELL (2).**

   a. Mate connector plug to connector shell and install four screws (4) and four nuts (5) and tighten.

   b. Position protective boot (3) over connector.





END OF TASK

3-11. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG, CA156 P2

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 1
Wrench, box and open, ¼-inch
lnstallation/Removal tool
Positioner

Materials/Parts (Item Nos.; See Appendix C)

Identification Labels (Item 1)
Connector plug

Personnel Required

One MOS 35C10

GO TO NEXT PAGE

3-11. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG TA156 P2 (cont)

REMOVAL

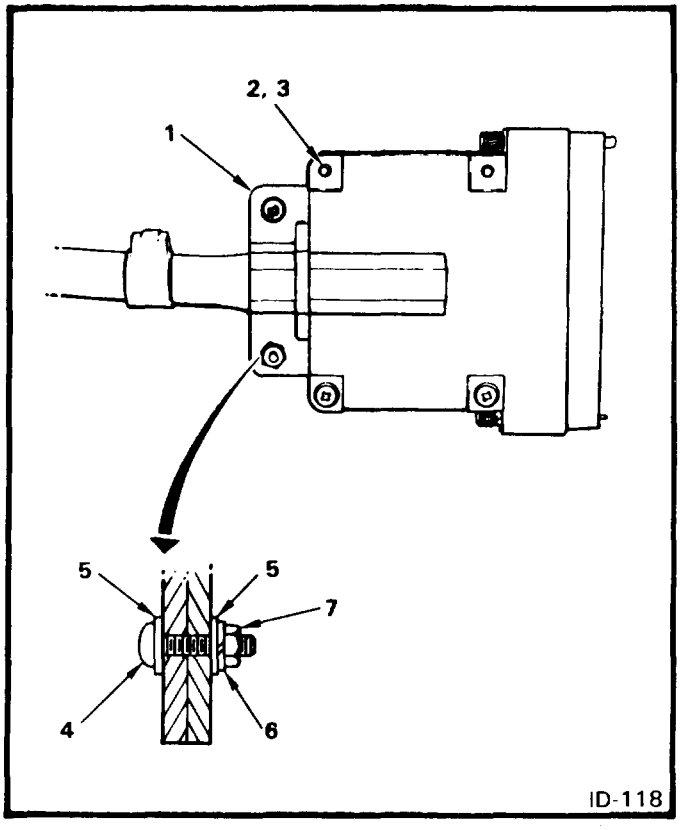
1. REMOVE BACKSHELL (1).

a. Remove four screws (2) and four flat washers (3) from backshell.

b. Remove two screws (4), and four flat washers (5), two lock washers (6), and two nuts (7) from backshell.

c. Separate backshell halves.

2. **REMOVE CONTACTS** from connector plug and label contacts with pin numbers.



INSTALLATION

1. **INSTALL CONTACTS** in connector plug and remove labels.

GO TO NEXT PAGE

3-11. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG TA156 P2 (cont)

CAUTION

DO NOT PINCH ANY WIRES WHILE SECURING BACKSHELL OR DAMAGE TO THE CABLE ASSEMBLY COULD RESULT.

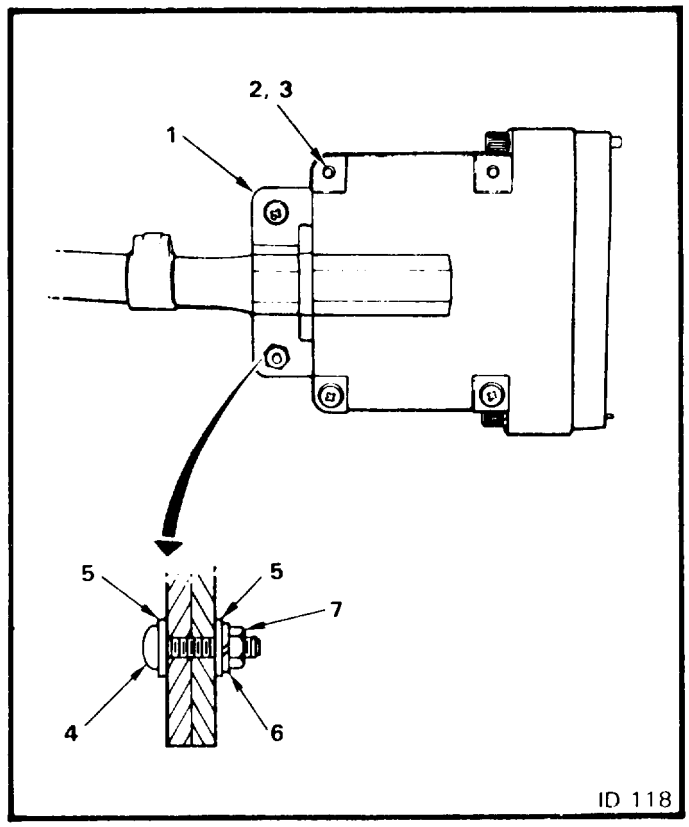
2. INSTALL BACKSHELL (1).

a. Position two backshell halves on connector.

b. Install four screws (2) and four flat washers (3) and tighten.

c. Install two screws (4), four flat washers (5), two lock washers (6), and two nuts (7) and tighten.

END OF TASK



3-12. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR CONTACT(S) CA150 P1, CA152 P1/P2, CA153 P2, CA154 P2, CA155 P2, CA156 P1, CA157 P3, CA158 P2/P3, TA127 P1/P2 OR TA128 P1/P2.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, flat 3/16-inch blade
Installation/removal tool
Pliers
Awl
Stripper, wire
Pliers diagonal cut
Crimping tool

Materials/Parts (Item Nos.; See Appendix C)

Contact(s)

Personnel Required

One MOS 35C10

Equipment Condition

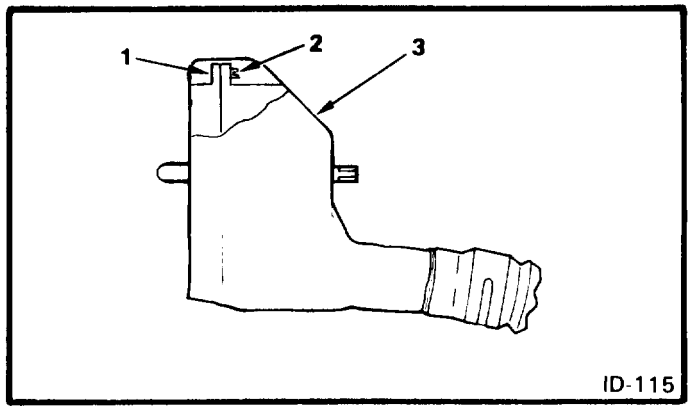
Para. Condition Description

3-6 Actuating handle removed

3-7 Protective cap and lanyard removed.

3-12. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR CONTACT(S) CA150 P1, CA152 P1/P2, CA153 P2, CA154 P2, CA155 P2, CA156 P1, CA157 P3, CA158 P2/P3, TA127 P1/P2 OR TA128 P1/P2 (Cont)

REMOVAL

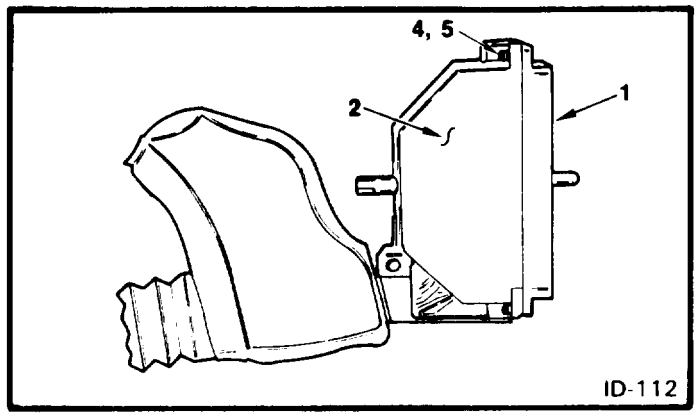


NOTE

TA128 P2 DOES NOT HAVE AN ACTUATOR OR PROTECTIVE CAP

1. **SEPARATE CONNECTOR PLUG (1) FROM CONNECTOR SHELL (2).**

   a. Roll back protective boot (3).



   b. Remove four screws (4) and four nuts (5).

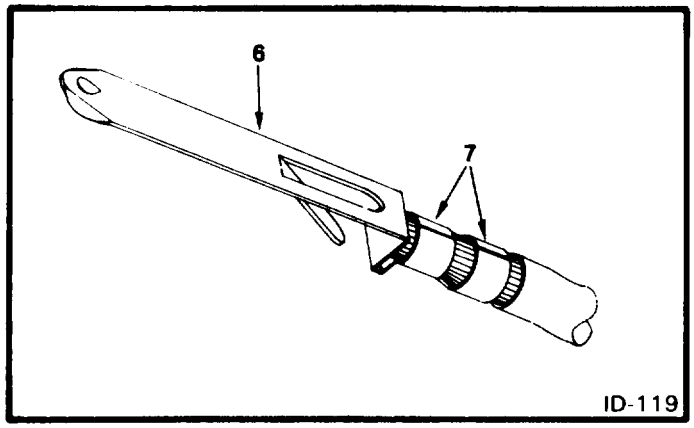
   c. Pull connector plug (1) from shell (2) to gain access to contacts.

2. **REMOVE CONTACT(S) (6) FROM CONNECTOR PLUG (1).**

3. **REMOVE CONTACT FROM WIRE.**

NOTE

IF CONTACT CANNOT BE REMOVED WITH AWL, CUT CONTACT FROM WIRE AND STRIP APPROXIMATELY 3/16-INCH OF INSULATION FROM WIRE.



   a. Hold contact (6) with pliers.

   b. Slide awl up contact and open separate locking tabs (7) securing contact to wire.

GO TO NEXT PAGE

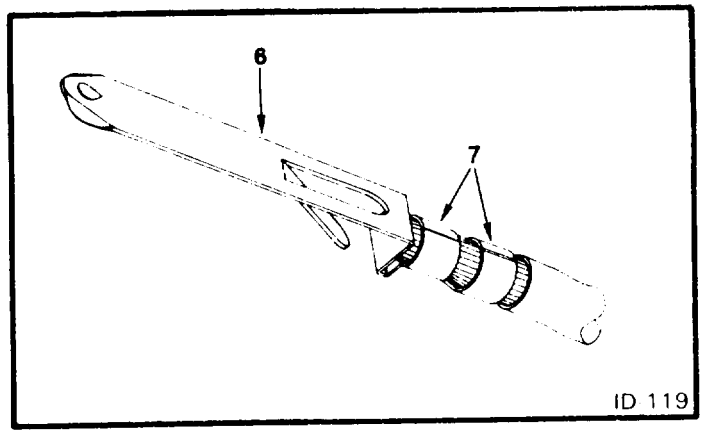
3-12. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR CONTACT(S) CA150 P1, CA152 P1/P2, CA153 P2, CA154 P2, CA155 P2, CA156 P1, CA157 P3, CA158 P2/P3, TA127 P1/P2 OR TA128 P1/P2 (Cont)

INSTALLATION

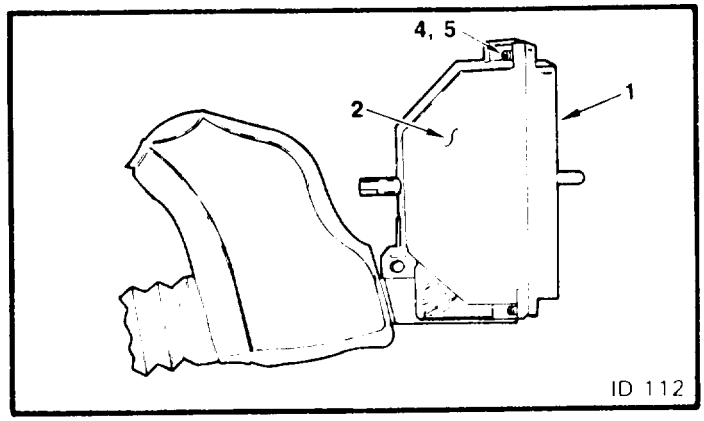
1. **INSTALL CONTACT (6) ON WIRE.**

   a. Twist wire end.

   b. Position contact (6) on wire and crimp locking tabs (7).



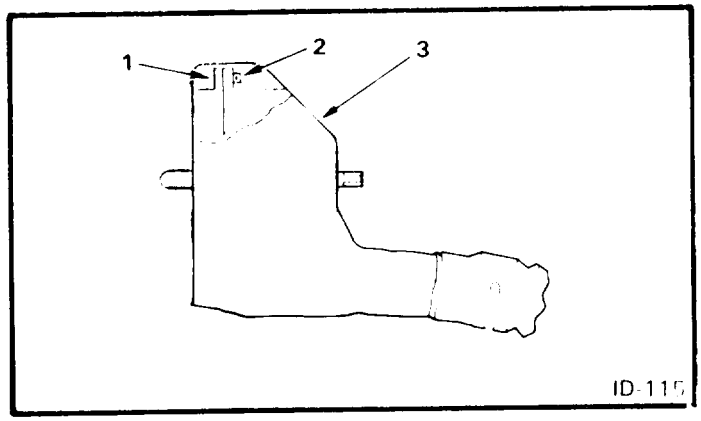
2. **INSTALL CONTACT(S) (6) IN CONNECTOR (1).**



3. **INSTALL CONNECTOR (1) PLUG IN CONNECTOR SHELL (2).**

   a. Mate connector plug (1) to connector shell (2) and install four screws (4) and four nuts (5) and tighten.

   b. Position protective boot (3) over connector.



END OF TASK

3-13. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR CONTACT(S) P2, CA153 P1, CA154 P1, CA155 P1, CA157 P1/P2, OR CA158 P1

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Pliers, Connector Installation/Removal Tool
Pliers, diagonal cut
Crimping tool
Strippers, Wire
Positioner
Wrench, hex head, 3/64-inch

Materials/Parts (Item Nos.; See Appendix C)

Contacts

Personnel Required

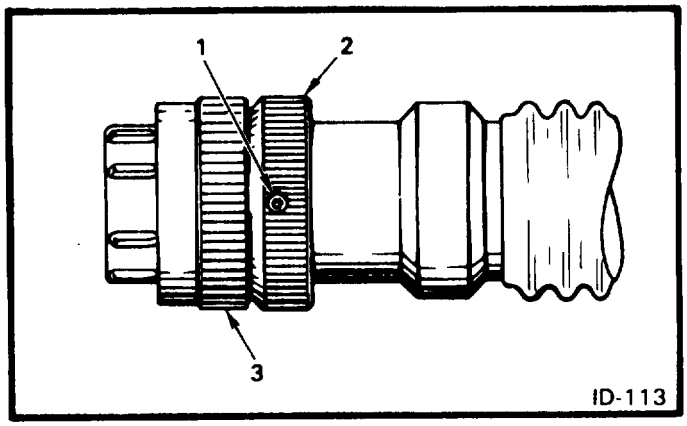
One MOS 35C10

REMOVAL

NOTE

CONNECTORS CA150 P2 AND CA158 P1 DO NOT HAVE SET-SCREWS. OMIT STEP 1 FOR THESE CONNECTORS.

1. **LOOSEN SETSCREW (1) ON ADAPTER (2).**
2. **UNSCREW ADAPTER** (2) from connector plug (3).



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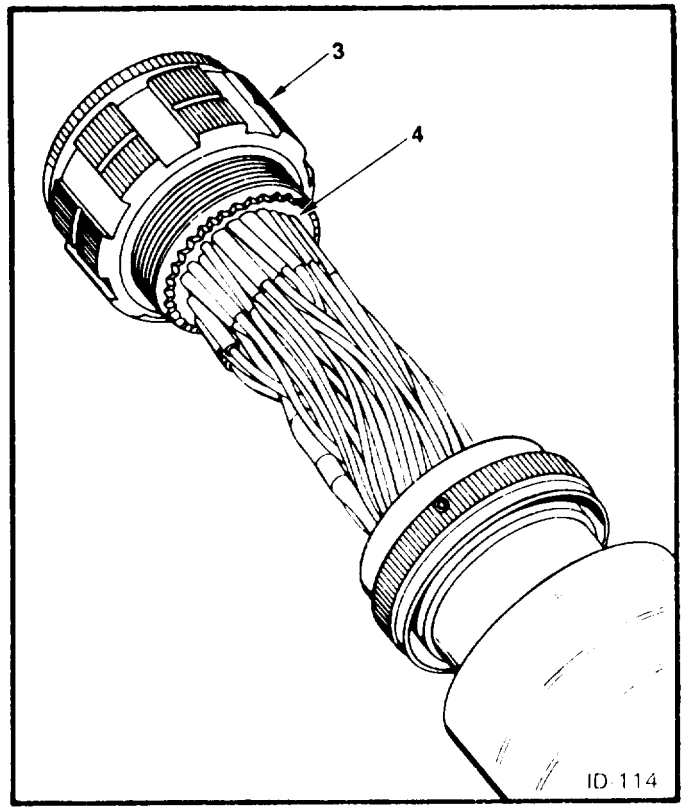
3-13. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR CONTACT(S) CA150 P2, CA153 P1, CA154 P1, CA155 P1, CA157 P1/P2, OR CA158 P1 (Cont)

3. **PULL CONNECTOR PLUG (3) OUT** to gain access to contacts (4).

4. **REMOVE CONTACT(S) (4)** from connector plug (3).

   a. Cut contact from wire.

   b. Strip approximately 3/16-inch of insulation from wire.



INSTALLATION

1. **INSTALL CONTACT ON WIRE.**

   a. Twist wire end.

   b. Position contact on wire and crimp to wire.

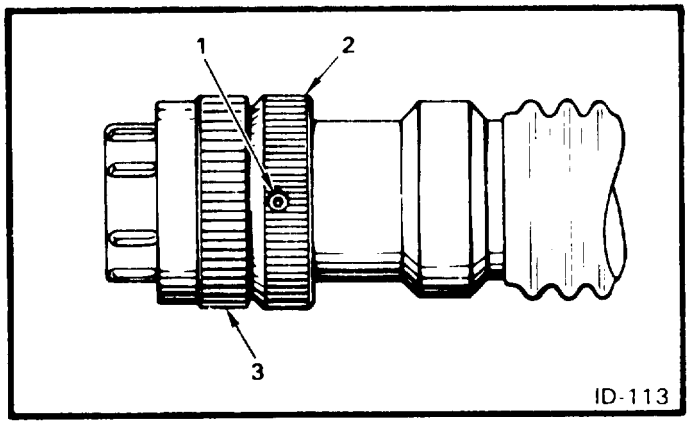
2. **INSTALL CONTACT (4)** in connector plug (3).

3. **MATE CONNECTOR PLUG (3) TO ADAPTER** (2) and tighten adapter.

NOTE

CONNECTORS CA150 P2 AND CA158 P1 DO NOT HAVE SETSCREWS. OMIT STEP 4 FOR THESE CONNECTORS.

4. **TIGHTEN SETSCREW (1).**



END OF TASK

3-14. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR CONTACT(S) CA156 P2

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, crosstip No. 1
Wrench, box and open, ¼-inch
Positioner
Installation/Removal tool
Pliers diagonal cut
Crimping tool

Materials/Parts (Item Nos.; See Appendix C)

Contact(s)

Personnel Required

One MOS 35C10

REMOVAL

1. **REMOVE BACKSHELL (1).**

   a. Remove four screws (2) and four flat washers (3) from backshell.

   b. Remove two screws (4), four flat washers (5), two lock washers (6), and two nuts (7) from backshell.

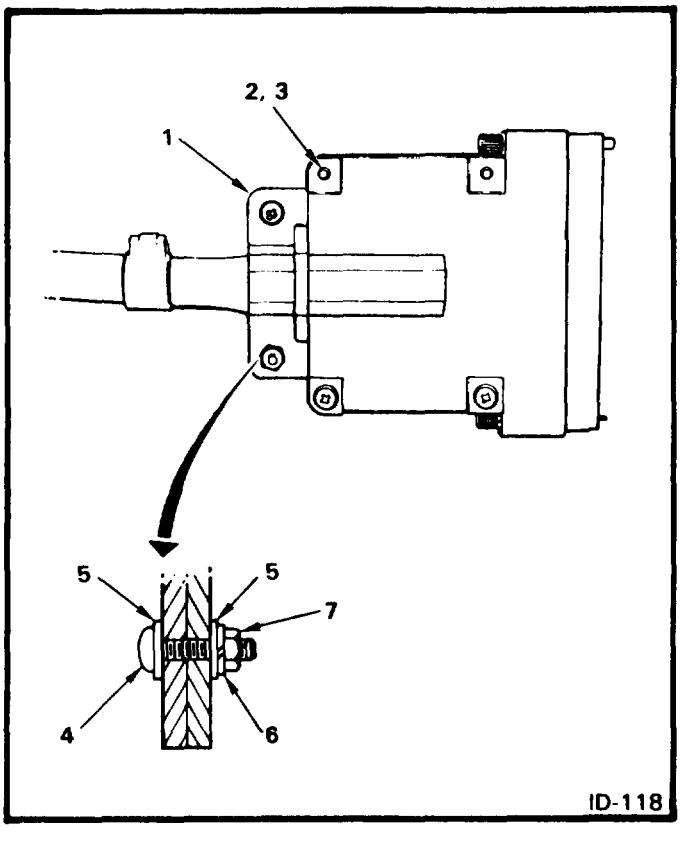
   c. Separate backshell halves.

2. **REMOVE CONTACT** from connector.

3. **REMOVE CONTACT** from wire.

   a. Cut contact from wire.

   b. Strip approximately 3/16-inch of insulation from wire.



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3-14. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR CONTACT(S), CA156 P2 (Cont)

INSTALLATION

1. **INSTALL CONTACT ON WIRE.**

   a. Twist wire end.

   b. Position contact on wire and crimp to wire.

   c. **INSTALL CONTACT IN CONNECTOR.**

2. **INSTALL BACKSHELL (1).**

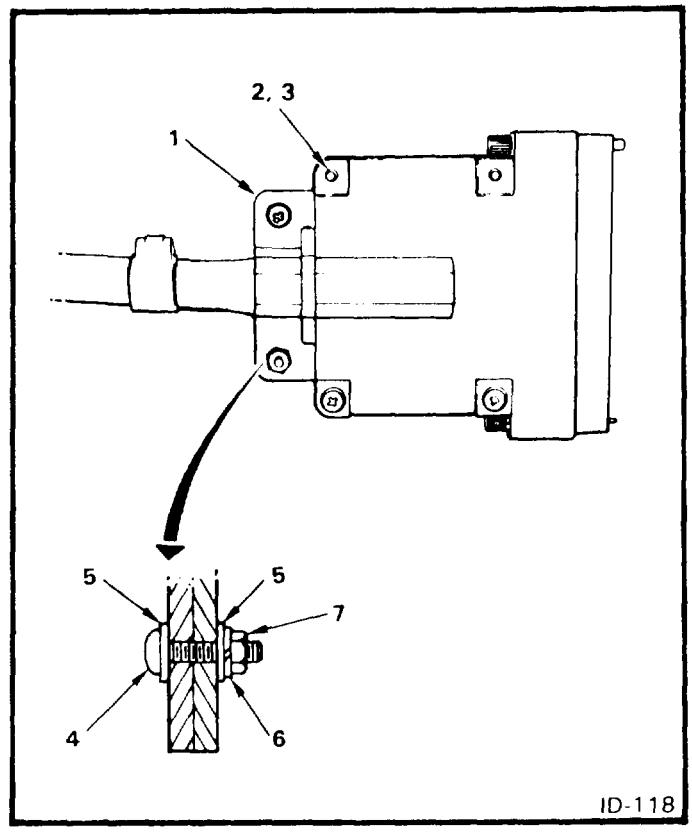
CAUTION

DO NOT PINCH ANY WIRES WHILE SECURING BACK-SHELL OR DAMAGE TO THE CABLE ASSEMBLY COULD RESULT.

   a. Position two backshell halves on connector

   b. Install four screws (2) and four flat washers (3) and tighten.

   c. Install two screws (4) and four flat washers (5), and two lock washers (6), and two nuts (7) and tighten.



END OF TASK

3-15. REMOVE/INSTALL CABLE ASSEMBLY TERMINAL LUG, CA158

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Pliers, diagonal cut
Stripper, wire
Crimping tool

Materials/Parts (Item Nos.; See Appendix C)

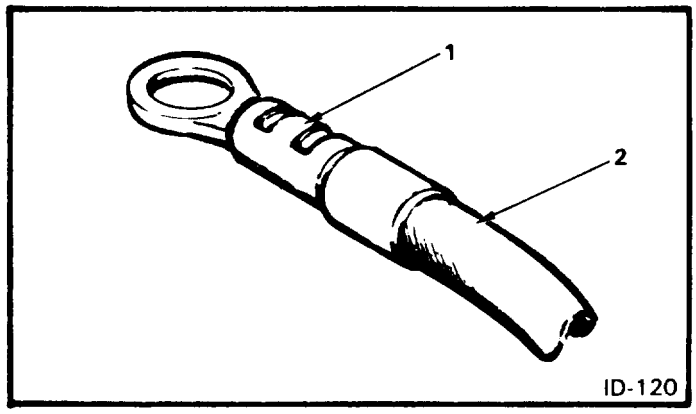
Terminal lug

Personnel Required

One MOS 35C10

REMOVAL

1. **CUT TERMINAL LUG** (1) from wire (2).



INSTALLATION

1. **STRIP APPROXIMATELY 1/8-INCH OF INSULATION** from wire.
2. **INSTALL TERMINAL LUG** (1) on wire (2) and crimp in position.

END OF TASK

3-16. REMOVE/INSTALL SHORTING PLUG ASSEMBLIES TA120 AND TA134 SHORTING PLUGS, P1 - P5/LANYARD

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Pliers, diagonal cut
Crimping tool die
Crimping tool

Materials/Parts (Item Nos.; See AppendixC)

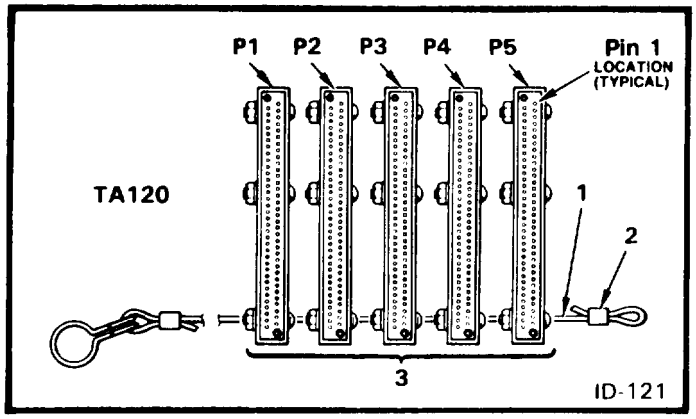
Shorting plug
Lanyard
Ferrule

Personnel Required

One MOS 35C10

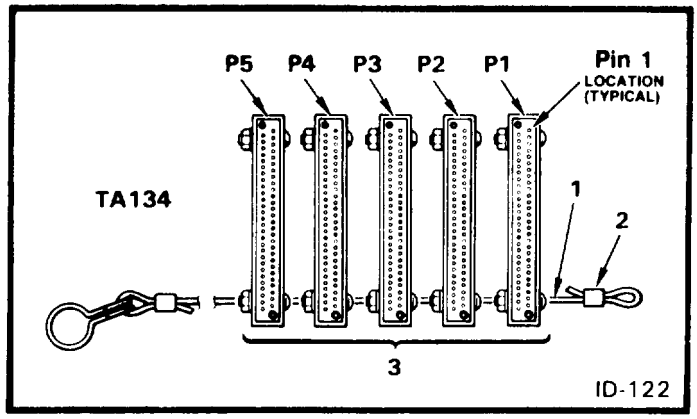
REMOVAL

1. **CUT LANYARD** (1) at ferrule (2).
2. **SLIDE SHORTING PLUGS (3) OFF LANYARD.**



INSTALLATION

1. **INSTALL SHORTING PLUGS (3) ON LANYARD (1).** Place shorting plugs on lanyard (1), ensuring shorting plugs (3) are as shown and pin 1 is in the upper right-hand position.
2. **CRIMP FERRULE (2) ON LANYARD (1).** Ensure lanyard extends approximately 1/8-inch beyond ferrule.



END OF TASK

3-17. REMOVE/INSTALL SHORTING PLUGS TA124, TA125 AND TA132 CONNECTOR CONTACT(S)/CONNECTOR PLUG

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, flat tip 3/16-inch blade
Insertion/Removal tool
Pliers
Awl
Stripper, wire
Pliers, diagonal cut
Crimping tool

Materials/Parts (Item Nos.; See Appendix C)

Identification labels (Item 1)
Contact(s)
Connector plug

Personnel Required

One MOS 35C10

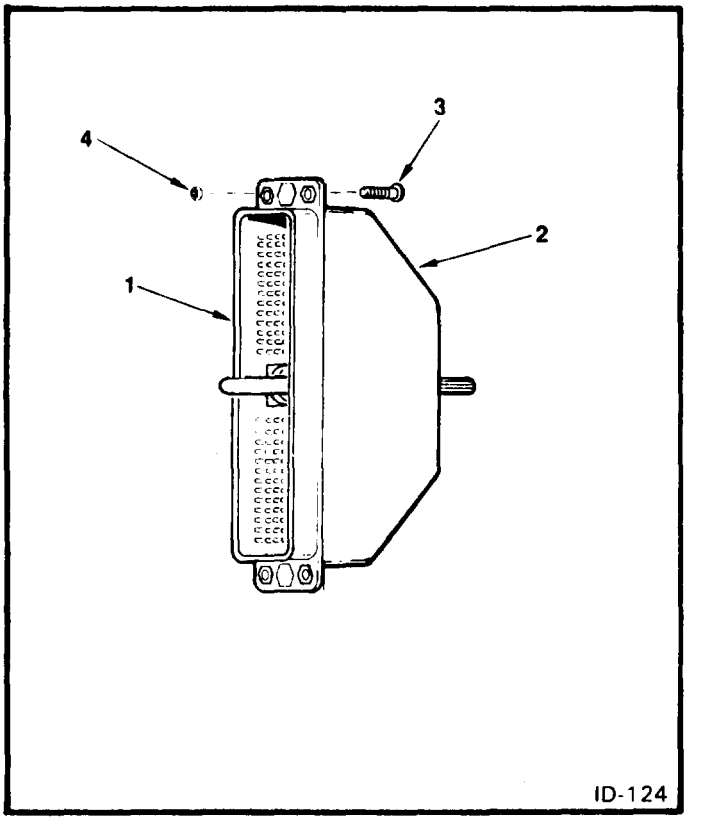
Equipment Condition

Para	Condition Description
3-6	Actuating handle removed
3-7	Protective cap and attaching lanyard removed.

REMOVAL

1. **SEPARATE CONNECTOR PLUG (1) FROM CONNECTOR SHELL (2).**

   a. Remove four screws (3) and four nuts (4).



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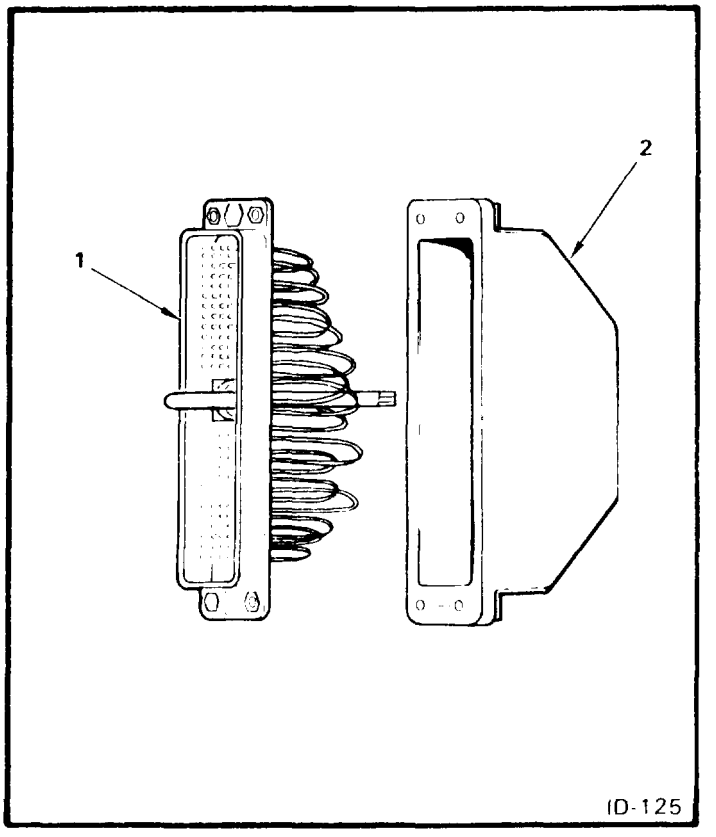
3-17. REMOVE/INSTALL SHORTING PLUGS TA124, TA125 AND TA132 CONNECTOR CONTACT(S)/CONNECTOR PLUG (Cont)

b. Remove connector plug (1) from shell (2).



NOTE

IF MORE THAN ONE CONTACT OR CONNECTOR PLUG IS BEING REPLACED, LABEL CONTACT WIRES WITH PIN NUMBER.

2. **REMOVE CONTACT(S)** from connector plug and label wire with pin number (if required).

NOTE

IF CONNECTOR PLUG IS REPLACED, OMIT STEP 3.

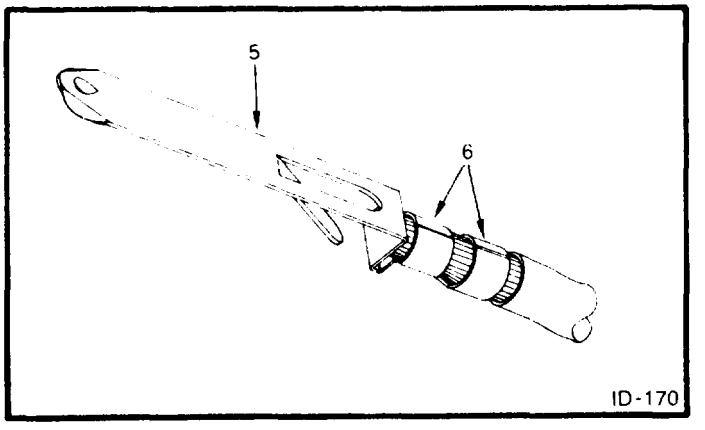
3. REMOVE CONTACT (5) FROM WIRE.

NOTE

IF CONTACT CANNOT BE REMOVED WITH AWL, CUT CONTACT FROM WIRE AND STRIP APPROXIMATELY 3/16-INCH OF INSULATION FROM WIRE.

a. Hold contact (5) with pliers.

b. Slide awl up contact and separate locking tabs (6) securing contact to wire.



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3-17. REMOVE/INSTALL SHORTING PLUGS TA124, TA125 AND TA132 CONNECTOR CONTACT(S) /CONNECTOR PLUG Cont)

INSTALLATION

NOTE

IF CONNECTOR PLUG IS BEING REPLACED, OMIT STEP 1.

1. **INSTALL CONTACT ON WIRE.**

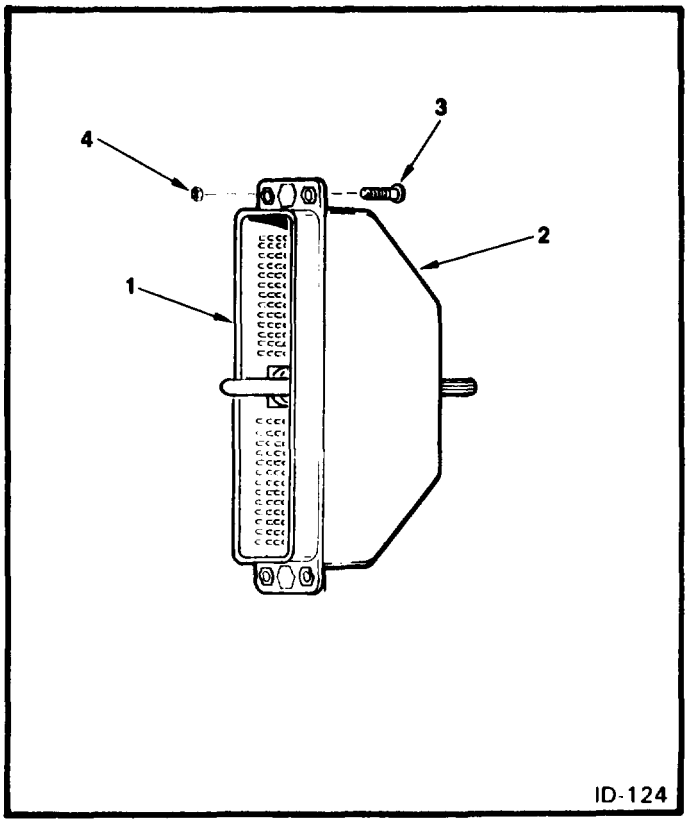
   a. Twist wire end.

   b. Position contact on wire and crimp to wire.

2. **INSTALL CONTACT(S) IN CONNECTOR.**

3. **INSTALL CONNECTOR (1) PLUG IN CONNECTOR SHELL (2).** Remove label (if attached).

   a. Mate connector plug to connector shell and install four screws (3) and four nuts (4) and tighten.



END OF TASK

3-18. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, FORWARD/INTERMEDIATE SHOE

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Handle, socket wrench, ¼-inch drive
Wrench, box and open end, ¼-inch
Screwdriver bit No. 2
Screwdriver bit holder
Wrench, torque, ¼-inch drive

Materials/Parts (Item Nos.; See Appendix C)

Primer coating (Item 2)
Brush, acid swab (Item 3)
Shoe
Shim

Personnel Required

One MOS 35C10

GO TO NEXT PAGE

3-18. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, FORWARD/INTERMEDIATE SHOE (Cont)

NOTE

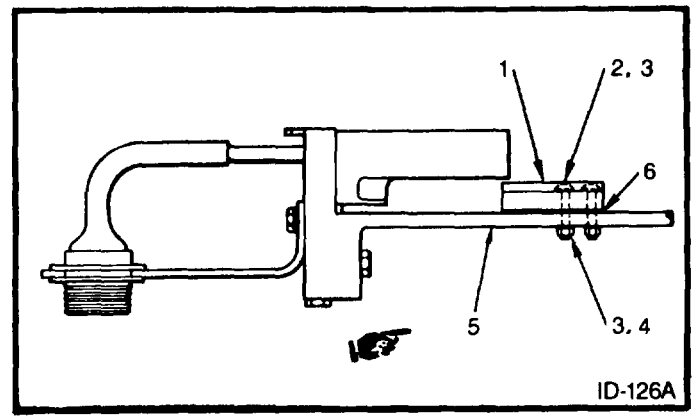
THIS PROCEDURE SHOWS REMOVAL/INSTALLATION OF THE FORWARD SHOE. THE INTERMEDIATE SHOE IS REMOVED/INSTALLED IN THE SAME MANNER.

REMOVAL

1. **REMOVE SHOE (1).**

   a. Remove two screws (2), and four washers (3), and two nuts (4).

   b. Remove shoe (1) and shim (6) from support adapter (5).



INSTALLATION

1. **APPLY PRIMER TO SCREWS** shanks (not threads), under screw head, and to nuts. Allow to dry.

2. **APPLY PRIMER TO SCREW HOLE AREAS** of shoe and support adapter.

3. **INSTALL SHOE (1).**

   a. Position shoe (1) and shim (6) on support adapter (5).

   b. Install two screws (2), four washers (3), and two nuts (4).

4. **TORQUE SCREWS (2)** to **35-INCH POUNDS.**

END OF TASK

3-19. REMOVE/INSTALL RAIL ADPATER ASSEMBLY, CONNECTOR HOUSING/WIRING HARNESS

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Handle, socket wrench, ¼-inch drive
Screwdriver, cross tip No. 1
Screwdriver, cross tip No. 2
Pliers, diagonal cut
Wrench, open end, 1 9/16-inch
Twister, wire
Wrench, torque, ¼-inch drive
Screwdriver bit No. 2
Screwdriver bit holder
Wrench, socket extension, 6-inch

Materials/Parts (Item Nos.; See Appendix C)

Identification Labels (Item 1)
Primer (Item 2)
Sealing primer (Item 4)
Sealing compound (Item 5)
Lockwire (Item 6)
Connector plug

Personnel Required

One MOS 35C10

Equipment Condition

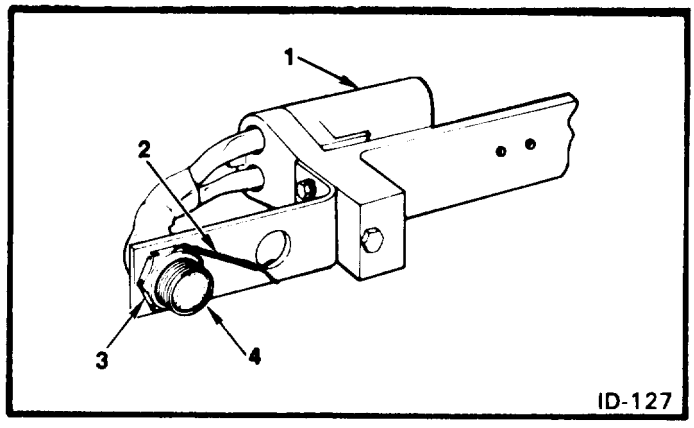
Para	Condition Description
3-19	Forward shoe removed

REMOVAL

1. **REMOVE CONNECTOR HOUSING (1).**

   a. Remove lockwire (2), from retaining nut (3).

   b. Remove retaining nut (3) from connector (4).



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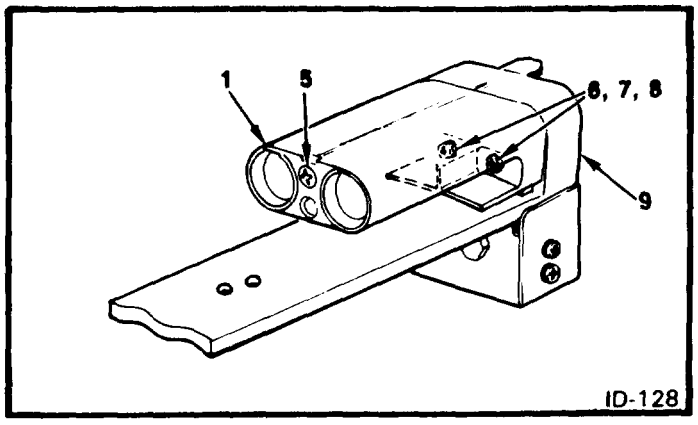
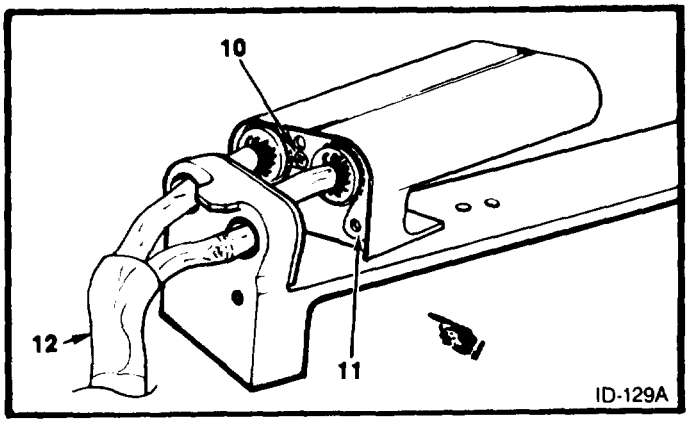
3-19. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, CONNECTOR HOUSING/WIRING HARNESS (Cont)

c. Remove screw (5), two screws (6), two flat washers (7), and two lock washers (8).

d. Separate connector housing (1) from support bracket (9) to gain access to retainer screw.



e. Remove retainer screw (10), retainer (11) and separate connector housing from wire harness (12).



INSTALLATION

1. **APPLY PRIMER TO SHANKS AND UNDER HEADS** of screws and to nuts. Allow to dry.

2. **APPLY SEALING PRIMER AND SEALING COMPOUND** to screw (5) threads.

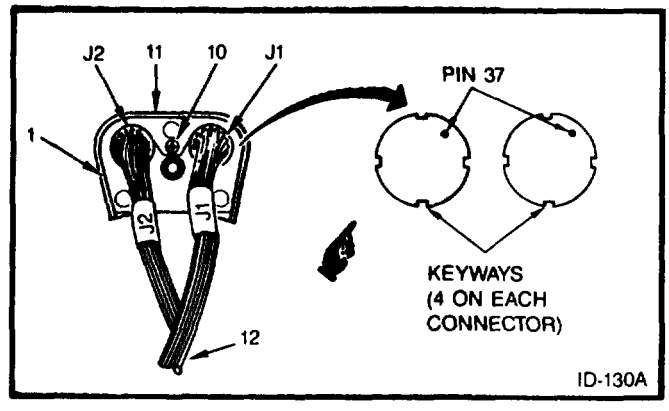
GO TO NEXT PAGE

3-19. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, CONNECTOR HOUSING/WIRING HARNESS (Cont)

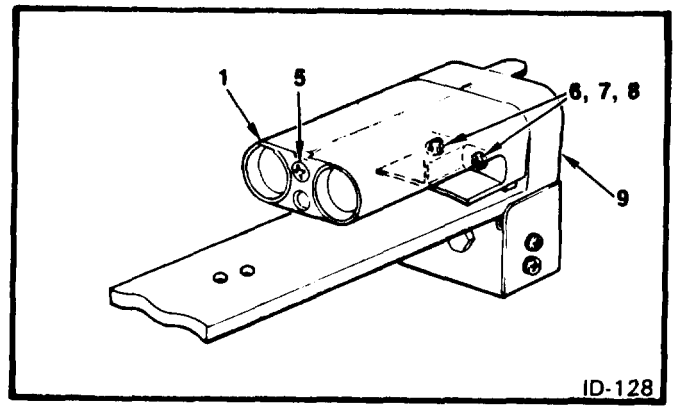
3. **INSTALL CONNECTOR HOUSING (1).**

a. Position wiring harness (12) in connector housing.

b. Install retainer (11), retainer screw (10) and tighten.



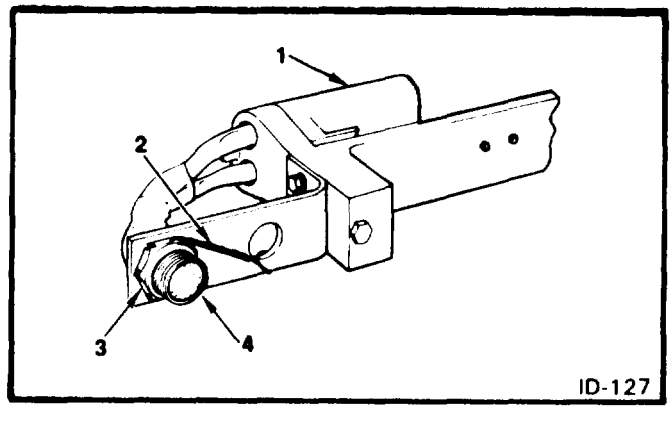
c. Position connector housing (1) in support bracket (9) and install screw (5), two lock washers (8), two flat washers (7), and two screws (6).



d. Position connector (4) in support bracket.

e. Install retaining nut (3) and tighten,

f. Install lockwire (2) on retaining nut (3) and support bracket.



4. **TORQUE SCREW (5) AND SCREWS (6) to 13-INCH POUNDS.**

END OF TASK

3-20. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, SUPPORT BRACKET

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Wrench, open end 1 9/16-inch
Wrench, torque ¼-inch drive
Handle socket wrench, ¼-inch drive
Socket wrench, 3/8-inch, ¼-inch drive
Pliers, diagonal cut
Twister, wire

Materials/Parts (Item Nos.; See Appendix C)

Lockwire (Item 6)
Primer coating (Item 2)

Personnel Required

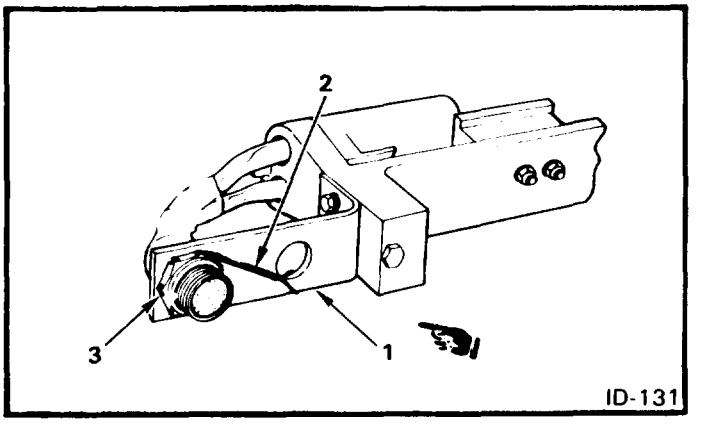
One MOS 35C10

REMOVAL

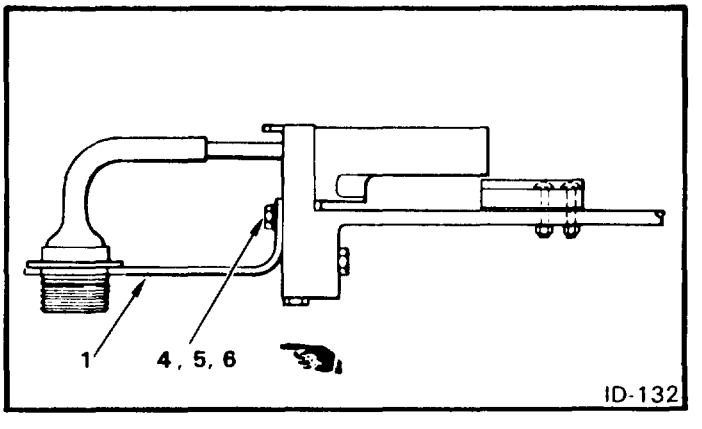
1. REMOVE SUPPORT BRACKET (1).

a. Remove lockwire (2) from retaining nut (3).

b. Remove retaining nut (3) from support (1).



c. Remove two bolts (4), two lock washers (5), and two flat washers (6), and remove support bracket (1).



GO TO NEXT PAGE

3-20. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, SUPPORT BRACKET (Cont)

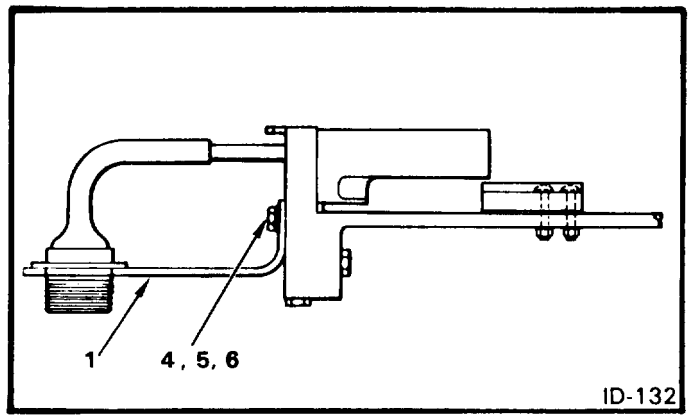
INSTALLATION

1. **APPLY PRIMER TO SHANKS** of bolts (not threads) and allow to dry.

2. **INSTALL SUPPORT BRACKET (1).**

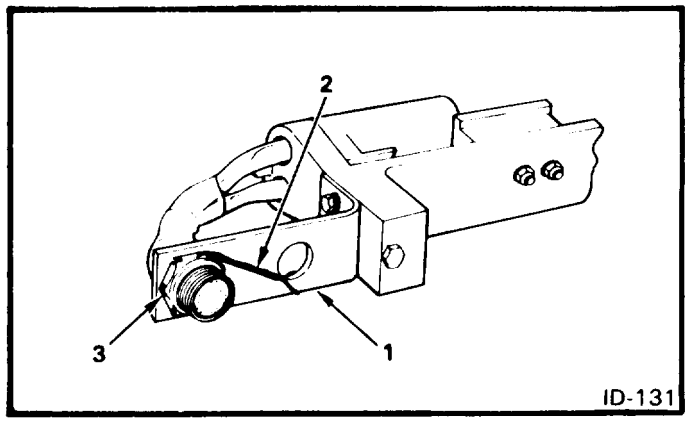
   a. Position support bracket (1) and install two flat washers (6), two lock washers (5), and two bolts (4).

3. **TORQUE BOLTS (4) TO 13 INCH-POUNDS**



4. Position connector in support bracket (1), install retaining nut (3) and tighten.

5. Install lockwire (2) on retaining nut (3) and support bracket (1).



END OF TASK

3-21. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, COVER

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 2
Screwdriver bit, cross tip No. 2
Screwdriver bit holder, ¼-inch drive
Wrench, torque, ¼-inch drive

Materials/Parts (Item Nos.; See Appendix C)

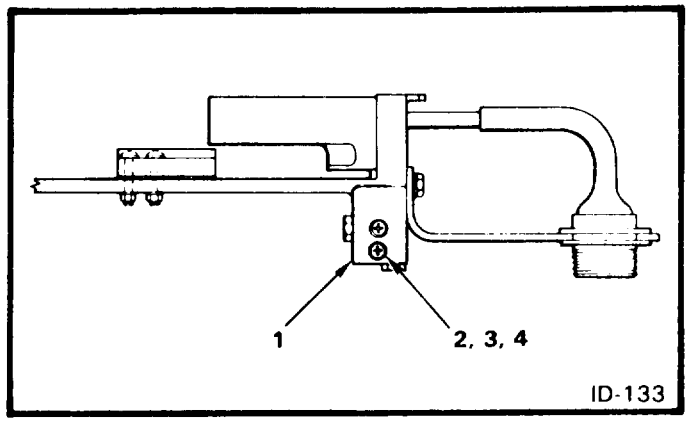
Primer coating (Item 2)
Brush, acid swab (Item 3)
Cover, adapter

Personnel Required

One MOS 35C10

REMOVAL

1. **REMOVE COVER** (1) by removing two screws (2), two flat washers (3), and two lock washers (4).



INSTALLATION

1. **APPLY PRIMER TO SCREW HOLES IN COVER AND UNDER SCREW HEADS.** Allow to dry.

2. **INSTALL COVER (1)**

   a. Position cover (1) on rail adapter.

   b. Install two lock washers (4), two flat washers (3), and two screws (2).

3. **TOROUE SCREWS TO 13 INCH-POUNDS.**

END OF TASK

3-22. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, CLAMP ASSEMBLY

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 3
Handle, socket wrench, ¼-inch drive
Wrench, torque, ¼-inch drive
Screwdriver bit, No. 3
Screwdriver bit holder
Wrench, box and open end, 5/16-inch

Materials/Parts (Item Nos.; See Appendix C)

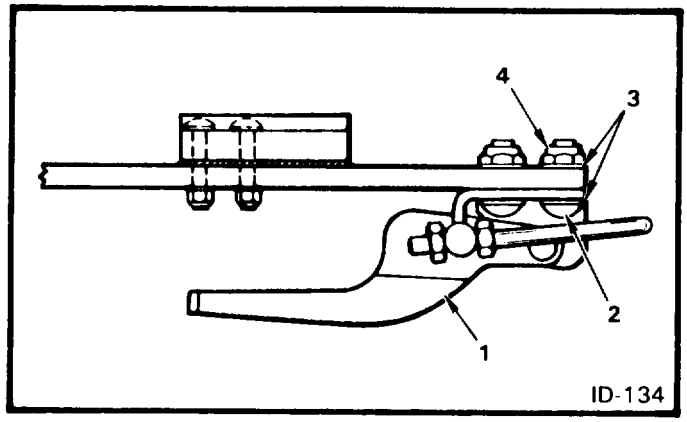
Primer coating (Item 2)
Brush, acid swab (Item 3)
Clamp assembly

Personnel Required

One MOS 35C10

REMOVAL

1. **REMOVE CLAMP ASSEMBLY** (1) by removing four screws (2), eight flat washers (3), and four nuts (4).



INSTALLATION

1. **APPLY PRIMER TO SCREWS** shanks, (not threads), under screw heads, and to nuts. Allow to dry.

2. **APPLY PRIMER TO SCREW HOLE AREAS** of clamp assembly and support adapter.

3. **INSTALL CLAMP ASSEMBLY (1).**

   a. Position clamp assembly on support adapter.

   b. Install four screws (2), eight flat washers (3), and four nuts (4).

4. **TORQUE SCREWS TO 35 INCH-POUNDS.**

END OF TASK

3-23. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, REAR SHOE

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Bit, Torque set; No. 8
Wrench, box and open end ¼-inch
Screwdriver bit holder
Wrench, torque, ¼-inch drive
Socket wrench, ¼-inch, ¼-inch drive
Handle, socket wrench, ¼-inch drive

Materials/Parts (Item Nos.; See Appendix C)

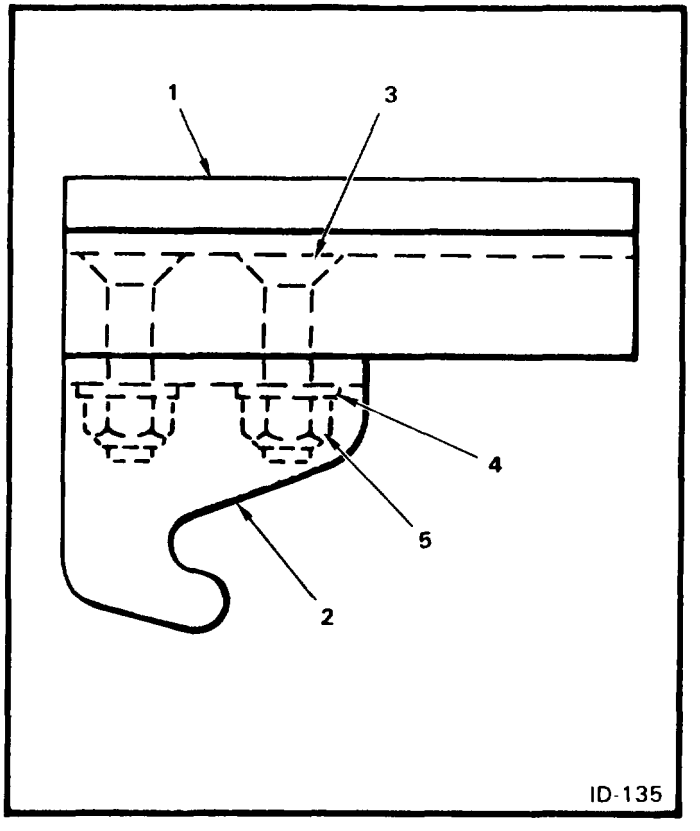
Primer coating (Item 2)
Brush, acid swab (Item 3)

Personnel Required

One MOS 35C10

REMOVAL

1. **SEPARATE REAR SHOE (1) FROM LOCK SHOE ADAPTER (2)** by removing two screws (3), two washers (4), and two nuts (5).



INSTALLATION

1. **APPLY PRIMER TO SCREWS** shanks, (not threads), under screw heads, and to nuts. Allow to dry.

2. **APPLY PRIMER TO SCREW HOLE AREAS OF SHOE AND LOCK SHOE ADAPTER.**

GO TO NEXT PAGE

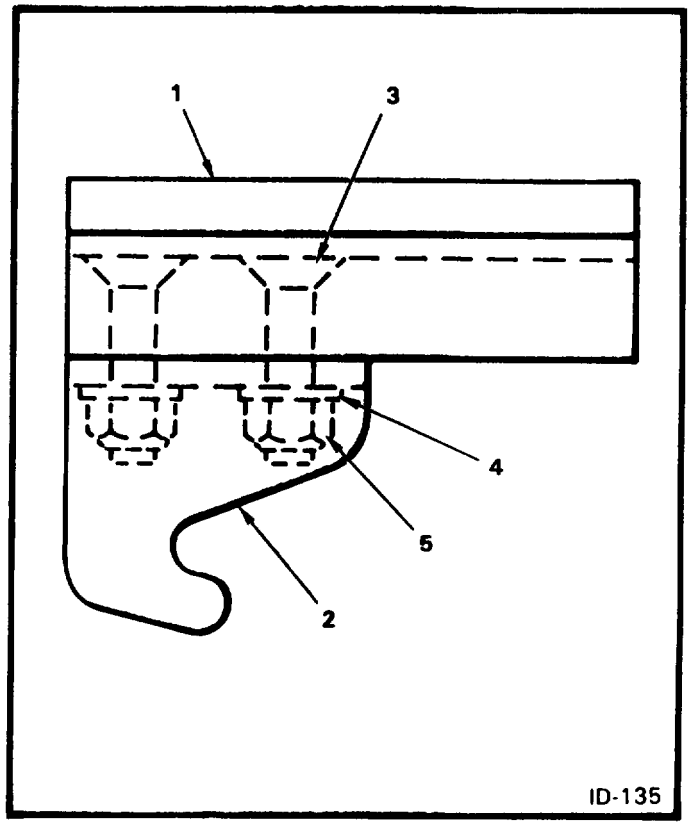
3-23. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, REAR SHOE (Cont)

3. **INSTALL LOCK SHOE ADAPTER (2).**

   a. Position lock shoe adapter (2) on rear shoe (1).

   b. Install two screws (3), two flat washers (4), and two nuts (5).

4. **TORQUE SCREW TO 35 INCH-FOUNDS.**



END OF TASK

3-24. REMOVE/INSTALL LOADBOX BOTTOM/TOP LOUVER PANEL

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 2

Materials/Parts (Item Nos.; See Appendix C)

Top/Bottom Louver Panel

Personnel Required

One MOS 35C10

GO TO NEXT PAGE

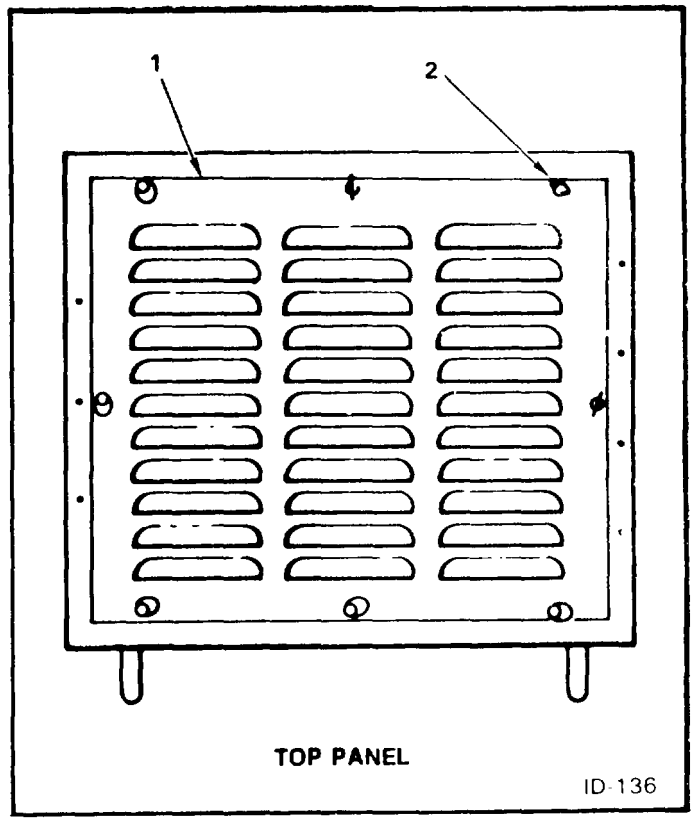
3-24. REMOVE/INSTALL LOADBOX BOTTOM/TOP LOUVER PANEL (Cont)

NOTE

TOP PANEL IS SECURED WITH EIGHT FASTENERS. THE BOTTOM PANEL IS SECURED WITH SIXTEEN FASTENERS.

REMOVAL

1. **REMOVE PANEL (1)** by unlocking retaining fasteners (2).



TOP PANEL

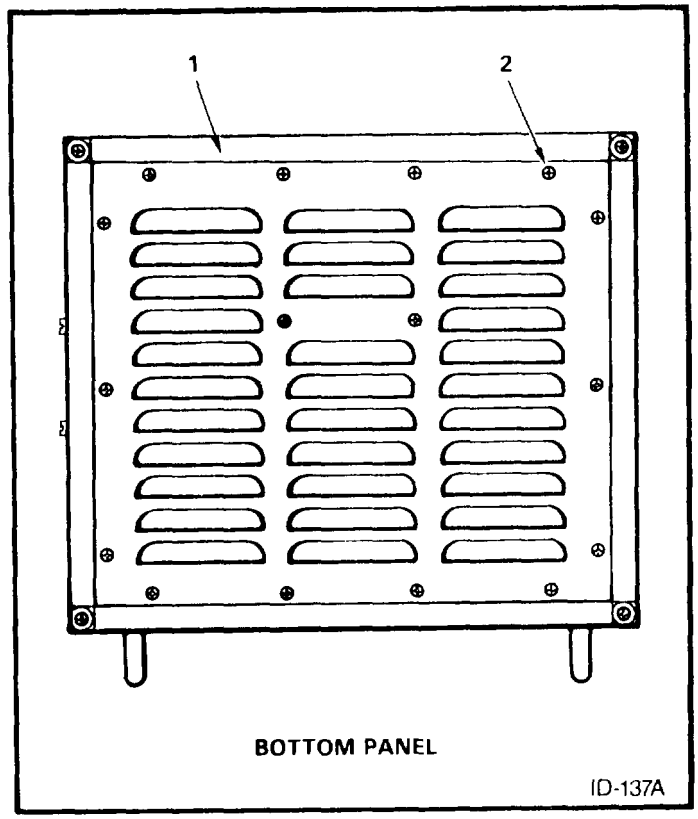
ID-136

INSTALLATION

NOTE

INSURE TWO CENTER FASTENERS ARE ALIGNED OVER HOLES IN BOTTOM SUPPORT ASSEMBLY.

1. **INSTALL PANEL** (1), secure with retaining fasteners (2).



BOTTOM PANEL

ID-137A

END OF TASK

3-25. REMOVE/INSTALL LOADBOX FORWARD HARNESS ADAPTER

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 2

Materials/Parts (Item Nos.; See Appendix C)

Forward Harness Adapter

Personnel Required

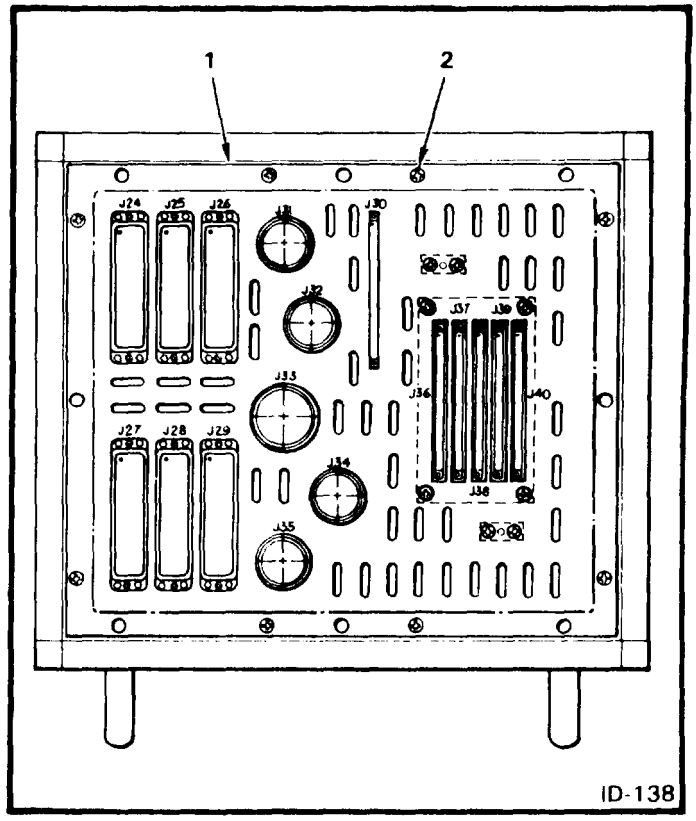
One MOS 35C10

Equipment Condition

Para	Condition Description
3-24	Top Louver Panel removed.

REMOVAL

1. **REMOVE FORWARD HARNESS ADAPTER** (1) by unlocking eight retaining fasteners (2).



INSTALLATION

1. **INSTALL FORWARD HARNESS ADAPTER** (1), secure with eight retaining fasteners (2).

END OF TASK

3-26. REMOVE/INSTALL LOADBOX BOTTOM/TOP PANEL STUD

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Pliers, Short Nose

Personnel Required

One MOS 35C10

Materials/Parts (Item Nos.; See Appendix C)

Stud
Retainers

Equipment Condition

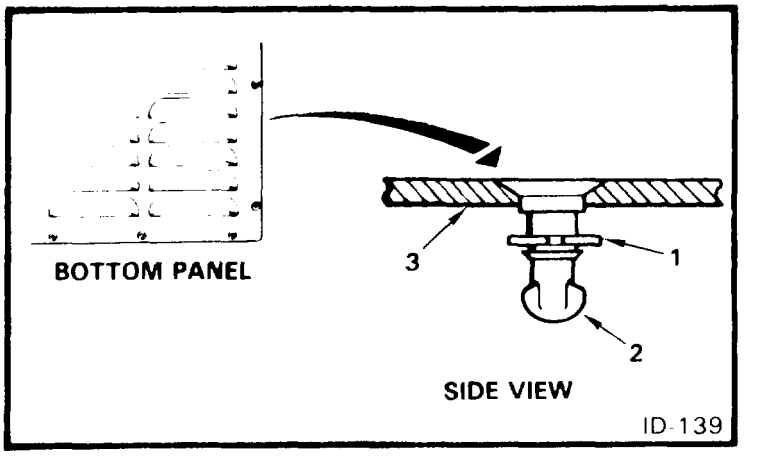
Para	Condition Description
3-24	Applicable Louver Panel removed.

REMOVAL

1. **REMOVE RETAINER** (1) from stud (2) Remove stud from panel (3).

INSTALLATION

1. **INSTALL STUD** (2) in panel (3) and install retainer (1).



END OF TASK

3-27. REMOVE/INSTALL LOADBOX GROUND STUD

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Wrench, open end, 7/16-inch
Knife, pocket
Wrench, open end, ¾-inch

Materials/Parts (Item Nos.; See Appendix C)

Paper, abrasive (Item 12)
Towel, paper (Item 18)
Naphtha (Item 13)
Ground stud

Personnel Required

One MOS 35C10

Equipment Condition

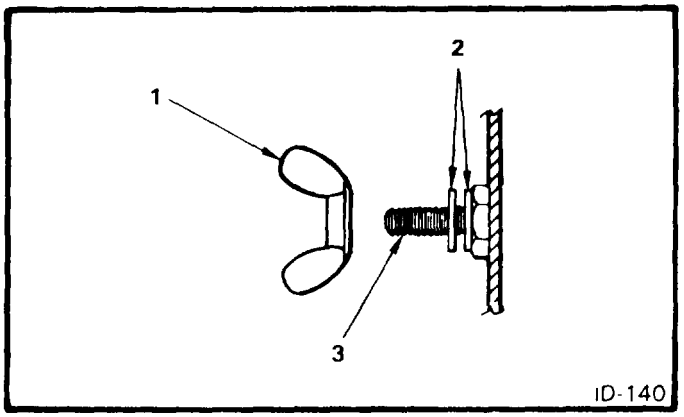
Para	Condition Description
3-24	Top Louver Panel removed.
3-25	Forward Harness Adapter removed.

REMOVAL

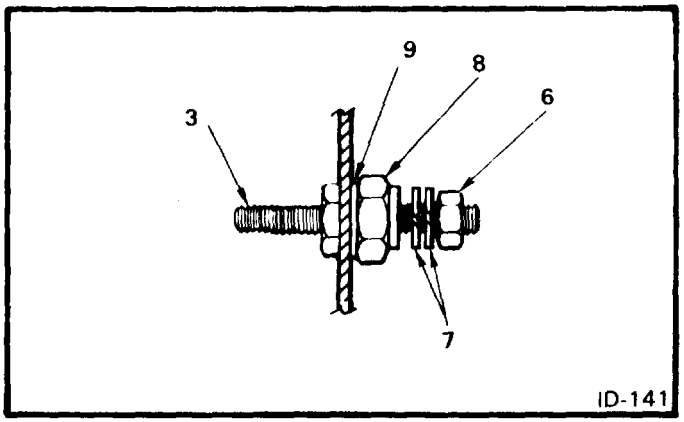
1. **REMOVE WINGNUT** (1) and two washers (2) from ground stud (3).

NOTE

IT MAY BE NECESSARY TO HOLD OUTSIDE NUT WHILE TURNING INSIDE NUT.



2. **REMOVE STUD** (3), by removing hexnut (6), two lock washers (7). large hex nut (8), and serrated washer (9).



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3-27. REMOVE/INSTALL LOADBOX GROUND STUD (Cont)

CLEANING

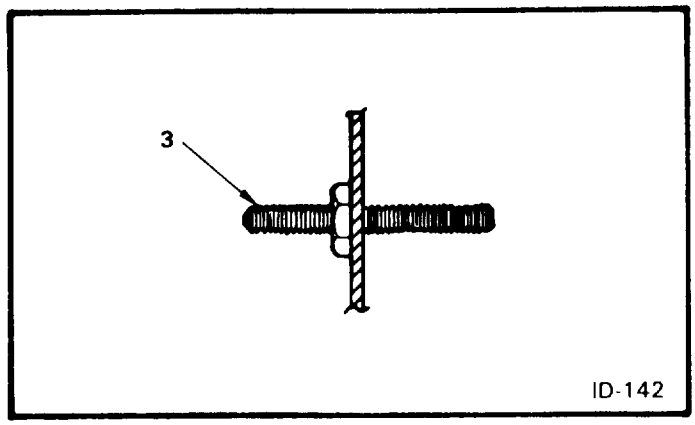
1. **INSPECT GROUND STUD MATING AREA FOR CORROSION.** If corrosion exists, remove corrosion and clean in accordance with the following steps (steps 2 and 3).

2. Scrape corrosion from area and lightly sand with abrasive paper.

3. Clean surface with naphtha and paper towels.

INSTALLATION

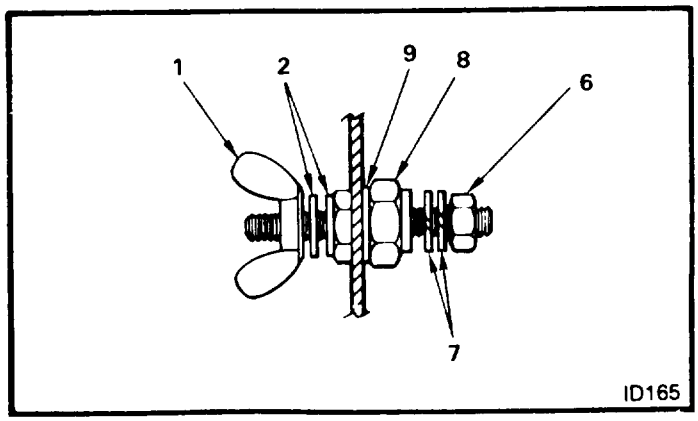
1. **INSERT GROUND STUD (3) THROUGH FRONT PANEL,** ensure the fixed hex nut is to the outside of panel.



2. **INSTALL ATTACHING HARDWARE,** one flat washer (9), one large hex nut (8), two lock washers (7), and small hex nut (6).

3. **TIGHTEN HEX NUTS** (8) and (6) on inside of panel.

4. **INSTALL TWO WASHERS** (2) and wing nut (1).



END OF TASK

3-28. REMOVE/INSTALL LOADBOX HANDLE(S)

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 2
Socket wrench attachment, 5/32-inch
Handle, socket, spin rigid, ¼-inch

Materials/Parts (Item Nos.; See Appendix C)

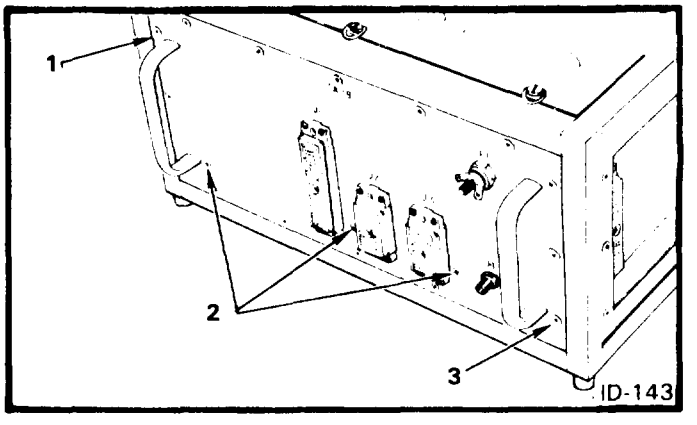
Artist brush (Item 14)
Compound sealant (Item 5)
Handle

Personnel Required

One MOS 35C10

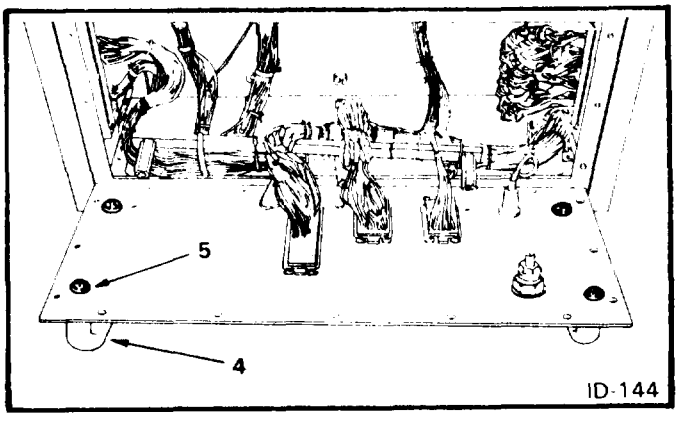
REMOVAL

1. **REMOVE FRONT PANEL (1).**
   a. Remove three cross tip screws (2).
   b. Remove sixteen socket head screws (3).
   c. Tilt front panel (1) down to allow access to handle screws.
2. **REMOVE HANDLE (4).** Remove two handle screws (5) from inside front panel.



INSTALLATION

1. **COAT HANDLE SCREW THREADS** with sealant compound.
2. **INSTALL HANDLE (4).** Install and tighten handle screws (5).



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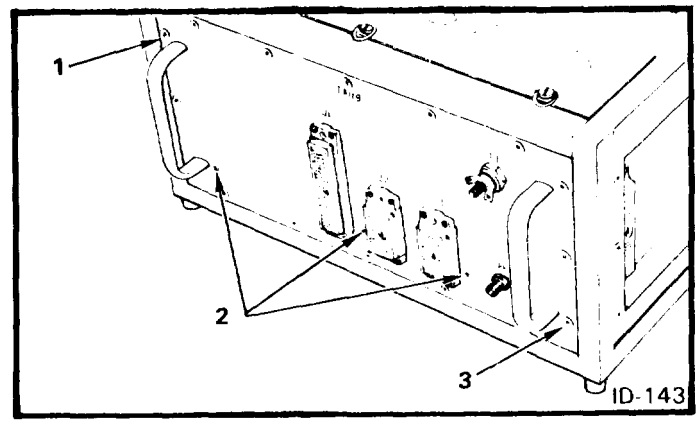
3-28. REMOVE/INSTALL LOADBOX HANDLE(S) (Cont)

3. **REPLACE FRONT PANEL (1).**

a. Position front panel and install three cross tip screws (2) and tighten.

b. Install sixteen socket head screws (3) and tighten.



END OF TASK

3-29. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY A1, A2, A4, or A5 RESISTOR

This task covers: Removal. Installation.

INITIAL SETUP

Applicable Configurations

All replaceable resistors

Tools and Test Equipment

Screwdriver, cross tip No. 0
Socket wrench attachment, 5/32-inch
Handle, socket, spin rigid, ¼-inch
Wrench, box and open end, ¼-inch
Pliers
Screwdriver, cross tip No. 1
Handle, socket wrench, ¼-inch drive
Knife, pocket
Wrench, box and open end, 3/16-inch
Solder/Desolder tool
Socket 7/16-inch, ¼-inch drive

Materials/Parts (Item Nos.; See Appendix C)

Flux, (Item 7)
Towel, paper (Item 8)
Brush, acid swab (Item 3)
Alcohol, isopropyl (Item 9)
Adhesive, thermal (Item 10)
Solder, (Item 11)
Resistor

Personnel Required

One MOS 35C10

Equipment Condition

Para Condition Description

3-24 Top and Bottom Louver panel removed.

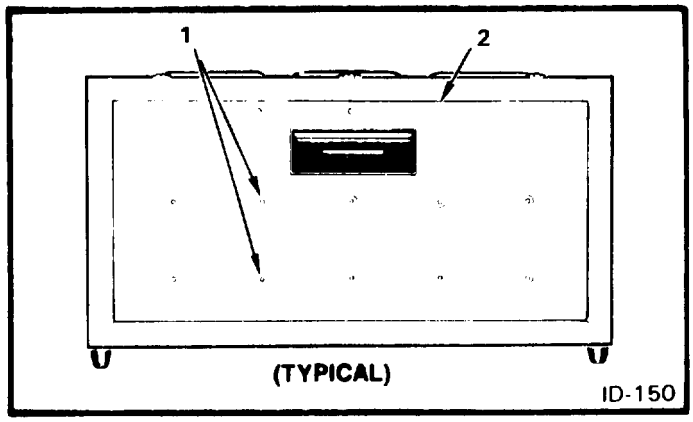
3-25 Forward Harness Adapter removed.

GO TO NEXT PAGE

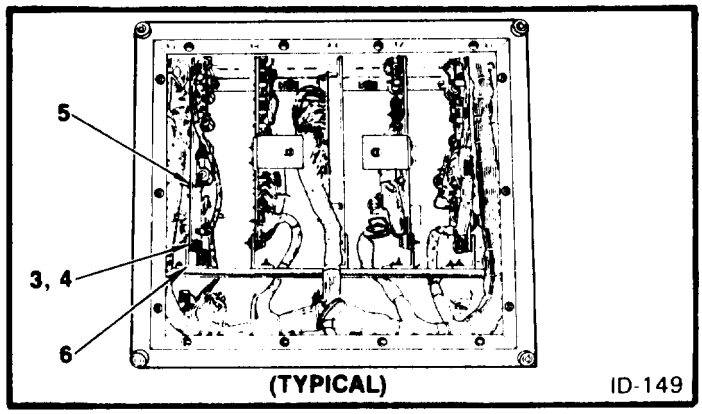
3-29. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY A1, A2, A4, OR A5 RESISTOR (Cont)

REMOVAL

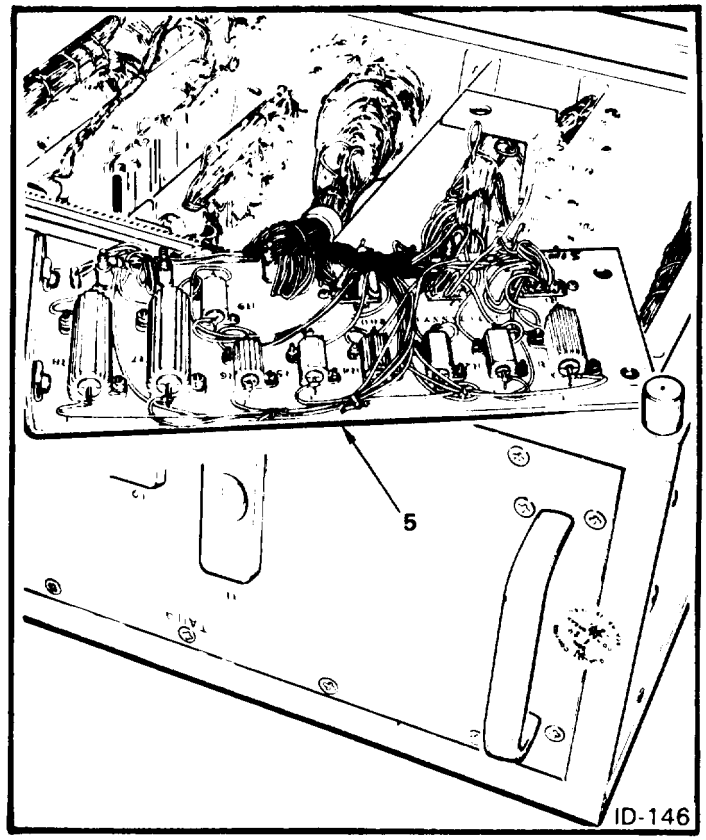
1. **REMOVE TWO SOCKET HEAD SCREWS** (1) attaching applicable resistor assembly to rear panel (2).



2. **REMOVE TWO HEX HEAD SCREWS** (3) and two flat washers (4) attaching applicable resistor assembly (5) to center support (6).



3. **PULL RESISTOR ASSEMBLY (5) THROUGH THE BOTTOM AND TOWARD FRONT OF LOADBOX** to allow access to resistors.



GO TO NEXT PAGE

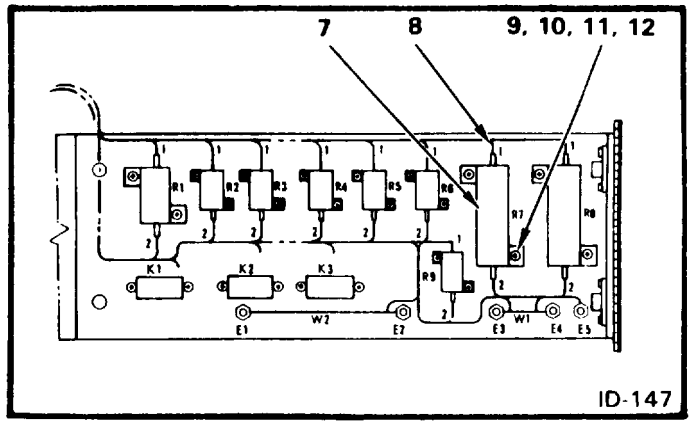
3-29. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY A1, A2, A4, OR A5 RESISTOR (Cont)

4. **REMOVE RESISTOR (7).**

   a. Desolder resistor leads (8).

   b. Remove two screws (9), two flat washers (10), two lock washers (11), and two nuts (12).

   c. Grip resistor lead with pliers and pull resistor from assembly.



CLEANING

1. **CLEAN RESISTOR MATING AREA.**

   a. Remove loose adhesive.

   b. Remove any adhesive high spots.

   c. Clean area with isopropyl alcohol.

INSTALLATION

1. **APPLY THERMAL ADHESIVE** to resistor mating area.

2. **INSTALL RESISTOR (7)** on resistor assembly.

   a. Position resistor and press firmly to ensure adhesive contact.

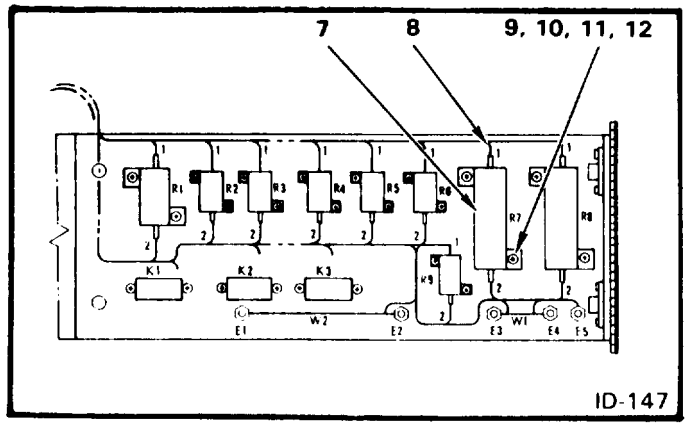
GO TO NEXT PAGE

3-29. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY A1, A2, A4, OR A5 RESISTOR (Cont)

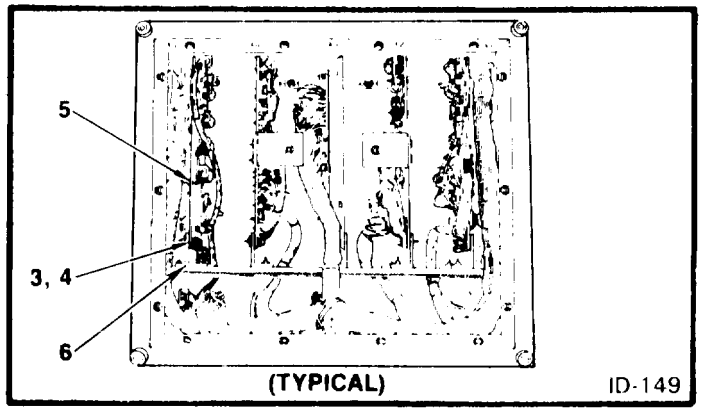
b. Install two screws (9), two flat washers (10), two lock washers (11), and two nuts (12) and tighten.

c. Solder resistor leads to connecting wire.

3. **POSITION RESISTOR ASSEMBLY (5)** in loadbox. Check for pinched wires.

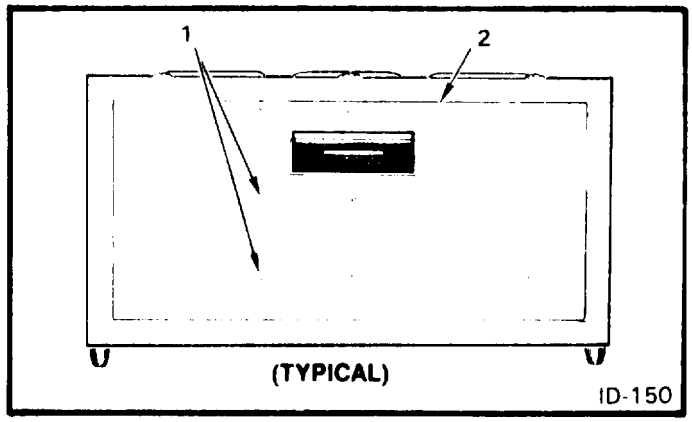


4. **ATTACH FRONT END OF RESISTOR ASSEMBLY** (5) to support assembly (6) with two screws (3) and two flat washers (4).



5. **INSTALL TWO SOCKET HEAD SCREWS** (1) through rear panel (2) and tightcn.

6. **TIGHTEN TWO SCREWS (3).**



END OF TASK

3-30. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY (A3), RESISTOR LOAD

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 2
Socket wrench attachment, 5/32-inch
Handle, socket, spin rigid, 1/4-inch drive
Socket 7/16-inch, 1/4-inch drive
Handle, socket wrench, 1/4-inch drive

Materials/Parts (Item Nos.; See Appendix C

Resistor load

Personnel Required

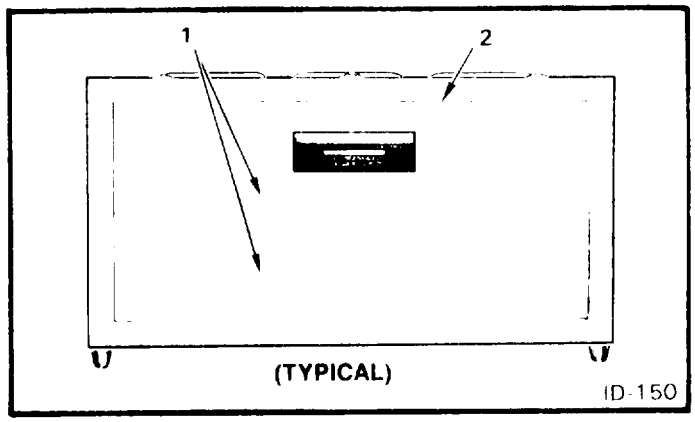
One MOS 35C10

Equipment Condition

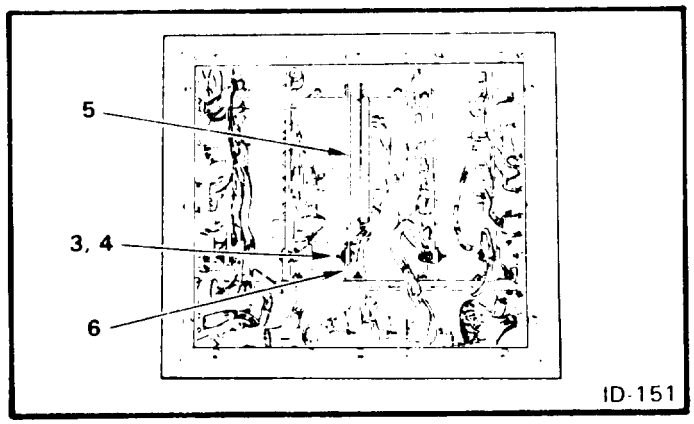
Para	Condition Description
3-24	Top and Bottom Louver Panel removed.
3-25	Forward Harness Adapter removed.

REMOVAL

1. **REMOVE TWO SOCKET HEAD SCREWS** (1) from rear panel (2).



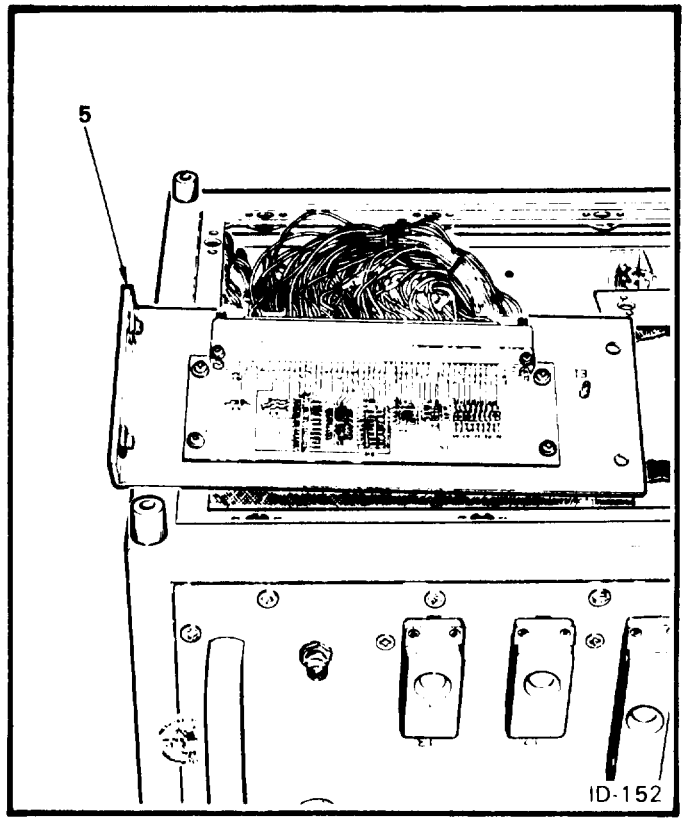
2. **REMOVE TWO HEX HEAD SCREWS** (3) and two flat washers (4) attaching resistor support assembly (5) to center support (6).



GO TO NEXT PAGE

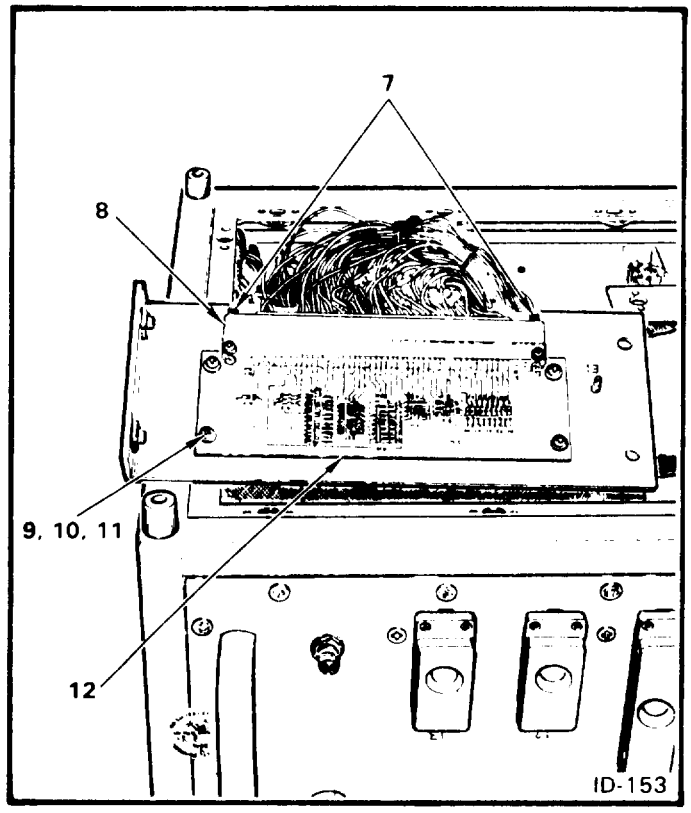
3-30. REMOVE/INSTALL LOADBOX RESISTOR SUPPORT ASSEMBLY (A3) RESISTOR (Cont)

3. **PULL RESISTOR SUPPORT ASSEMBLY (5) THROUGH THE BOTTOM AND TOWARD FRONT OF LOADBOX** to allow access to resistor load.



4. **LOOSEN TWO JACKSCREWS** (7) and remove connector (8) from resistor load.

5. **REMOVE FOUR SCREWS** (9), four lock washers (10), and four flat washers (11) attaching resistor load (12) to resistor support assembly.



GO TO NEXT PAGE

3-30. REMOVE/INSTALL LOADBOX RESISTOR SUPPORT ASSEMBLY (A3) RESISTOR (Cont)

INSTALLATION

1. **POSITION RESISTOR LOAD** (12) on resistor support assembly.

2. **INSTALL FOUR SCREWS** (9), four lock washers (10), and four flat washers (11) and tighten.

3. **POSITION CONNECTOR AND TIGHTEN TWO JACKSCREWS (7).**

4. **POSITION RESISTOR SUPPORT ASSEMBLY** in loadbox.

5. **ATTACH FRONT END OF RESISTOR SUPPORT ASSEMBLY** (5) to support assembly (6) with two screws (3) and two flat washers (4).

6. **INSTALL TWO SOCKET HEAD SCREWS** (1) through rear panel and tighten.

7 **TIGHTEN TWO SCREWS (3).**

END OF TASK

3-31. REMOVE/INSTALL LOADBOX BOTTOM SUPPORT ASSEMBLY

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Handle, socket wrench, 1/4-inch drive
Screwdriver bit holder
Screwdriver cross tip bit, No. 2

Personnel Required

One MOS 35C10

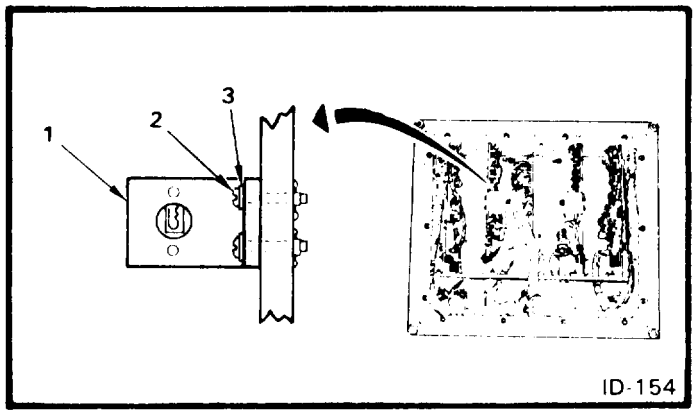
Materials/Parts (Item Nos.; See Appendix C)

Support assembly

Equipment Condition

Para	Condition	Description
3-24		Bottom panel removed.

1. **REMOVE SUPPORT ASSEMBLY** (1) by removing two screws (2) and two flat washers (3).



INSTALLATION

1. **INSTALL SUPPORT ASSEMBLY (1).**

   a. Install two screws (2) and two flat washers (3) and tighten.

   b. **CHECK ALIGNMENT** by using bottom louver panel. If alignment is incorrect, adjust support for proper alignment.

END OF TASK

3-32. REMOVE/INSTALL LOADBOX CONNECTOR J1, J2, or J3

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Socket wrench attachment, 5/32-inch
Installation/Removal tool
Screwdriver, cross tip No. 2
Handle socket spin rigid, ¼-inch
Screwdriver, cross tip No.1

Materials/Parts (Item Nos.; See Appendix C)

Identification label (Item 1)
Connector

Personnel Required

One MOS 35C10

Equipment Condition

Para	ConditionDescription
3-24	Top and Bottom Louver Panel removed.
3-25	Forward Harness Adapter removed.

REMOVAL

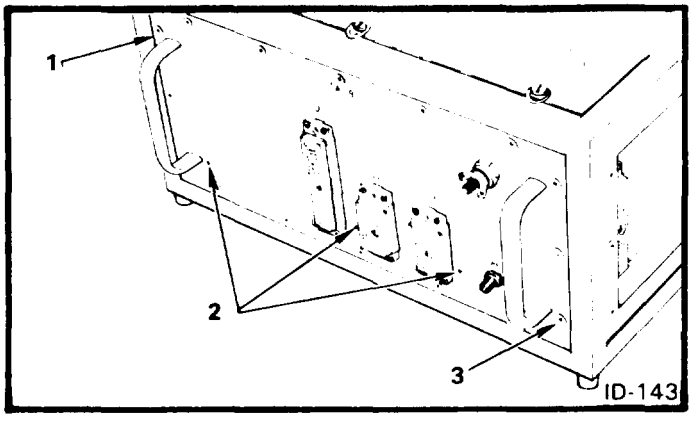
1. **REMOVE FRONT PANEL (1).**

   a. Remove three cross tip screws (2).

   b. Remove sixteen socket head screws (3).

   c. Tilt front panel (1) down to gain access to rear of connector.

2. **REMOVE CONTACTS FROM CONNECTOR** and label wires as they are removed.



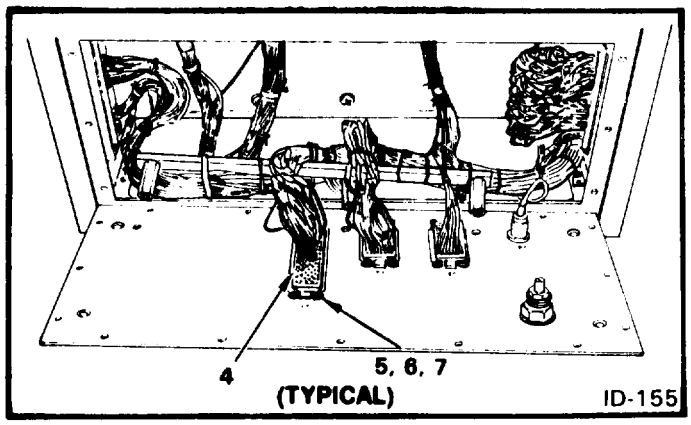
GO TO NEXT PAGE

3-32. REMOVE/INSTALL LOADBOX CONNECTOR J1, J2, or J3 (Cont)

3. REMOVE CONNECTOR (4) from front panel.

a. Remove four screws (5), four lock washers (6), and four nuts (7).

b. Remove connector (4).



INSTALLATION

1. **INSTALL CONNECTOR** (4) in panel with pin Al in the upper left position.

   a. Install four screws (5), four lock washers (6), and four nuts (7) and tighten.

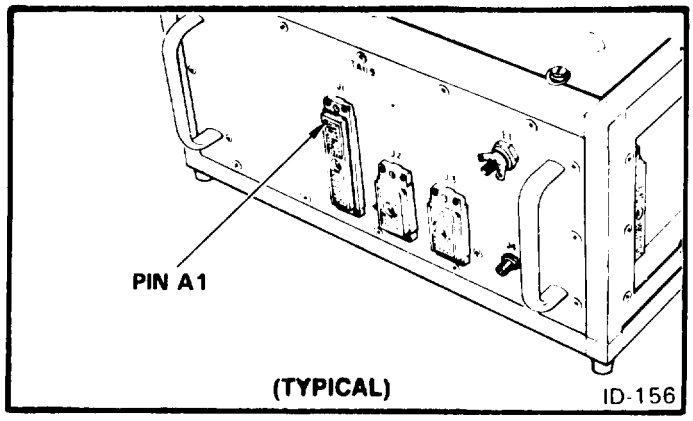
2. **INSERT CONTACTS** in receptacle and remove labels.

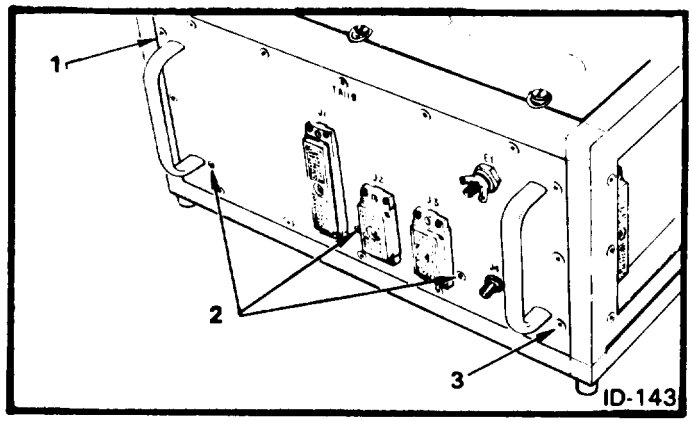
3. **POSITION FRONT PANEL (1).** Check for damaged wires.

4. **INSTALL FRONT PANEL (1).**

   a. Install three screws (2) and tighten.

   b. Install sixteen socket head screws (3) and tighten.





END OF TASK

3-33. REMOVE/INSTALL LOADBOX CONNECTOR J5, J6, J7, J8, J10, J11, OR J12

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No.1
Screwdriver, cross tip No.2
Socket wrench attachment 5/32-inch
Handle, socket, spin rigid, 1/4-inch
Wrench, box and open, 1/4-inch
Installation/Removal tool

Materials/Parts (Item Nos.; See Appendix C)

Identification label (Item 1)
Connector receptacle

Personnel Required

One MOS 35C10

Equipment Condition

Para	Condition Description
3-24	Top and Bottom Louver Panel removed.
3-25	Forward Harness Adapter removed

REMOVAL

NOTE

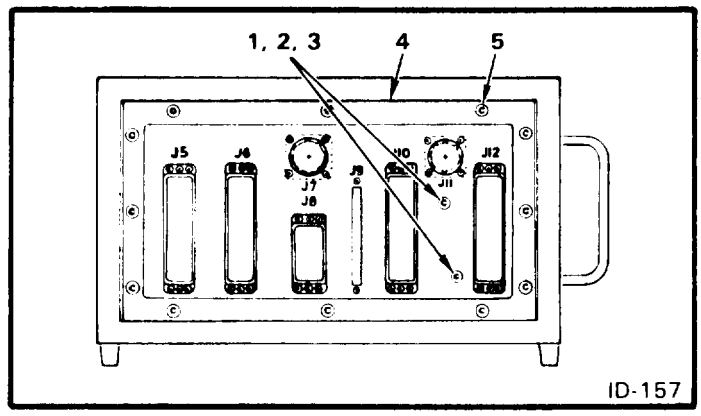
THE SCREWS REMOVED IN THE FOLLOWING STEP ARE LOCATED BETWEEN RECEPTACLES J10 AND J12.

1. REMOVE TWO SOCKET HEAD SCREWS (1), two flat washers (2), and two nuts (3) from left side panel.

2. REMOVE LEFT SIDE PANEL (4).

a. Remove twelve socket head screws (5).

b. Tilt panel down to allow access to rear of receptacle.



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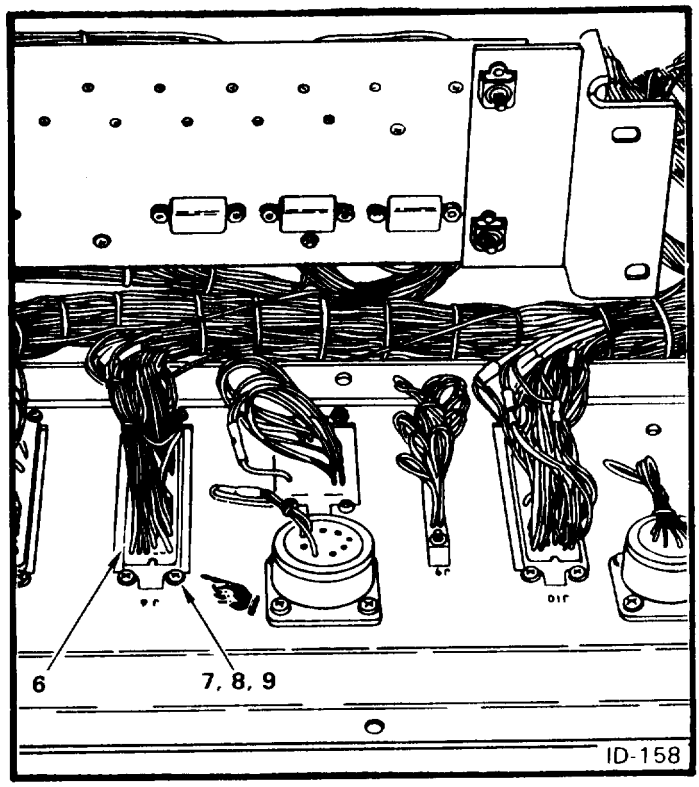
3-33. REMOVE/INSTALL LOADBOX CONNECTOR J5, J6, J7, J8, J10, J11, OR J12 (Cont)

3. **REMOVE CONTACTS FROM CONNECTOR** and label wires as they are removed.

4. **REMOVE CONNECTOR** (6) from panel.

   a. Remove four screws (7), four washers (8), and four nuts (9).

   b. Remove connector.



INSTALLATION

1. **INSTALL CONNECTOR** (6) in panel with pin Al in upper left position.

   a. Install four screws (7), four washers (8), and four nuts (9) and tighten.

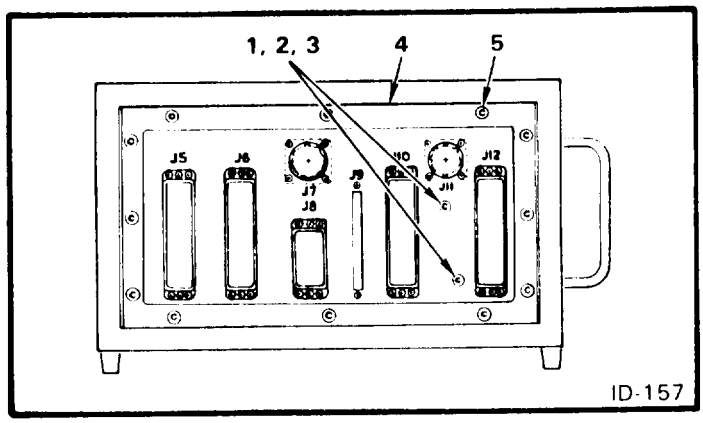
2. **INSERT CONTACTS** in receptacle and remove labels.

3. **POSITION PANEL** on loadbox. Check for pinched wires.

4. **INSTALL LEFT SIDE PANEL (4).**

   a. Install twelve socket head screws (5) and tighten.

   b. Install two socket head screws (1), two flat washers (2), and two nuts (3) in left side panel and tighten.



END OF TASK

3-34. REMOVE/INSTALL LOADBOX CONNECTOR J13, J15, J16, J21, J22, OR J23

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 1
Screwdriver, cross tip No. 2
Socket wrench attachment 5/32-inch
Handle, socket, spin rigid, 1/4-inch
Installation/Removal tool
Wrench, box and open, 1/4-inch
Wrench, box and open, 3/16-inch

Materials/Parts (Item Nos.; See Appendix C)

Identification label (Item 1)
Connector receptacle

Personnel Required

One MOS 35C10

Equipment Condition

Para	Condition Description
3-24	Top and Bottom Louver Panel removal.
3-25	Forward Harness Adapter removed.

REMOVAL

NOTE

THE SCREWS REMOVED IN THE FOLLOWING STEP ARE LOCATED BETWEEN RECEPTACLES J13 AND J16.

1. **REMOVE TWO SOCKET HEAD SCREWS** (1), two flat washers (2), and two nuts (3) from right side panel.

2. **REMOVE RIGHT SIDE PANEL (4).**

   a. Remove twelve socket head screws (5).

   b. Tilt panel down to allow access to rear of connector.

GO TO NEXT PAGE

3-34. REMOVE/INSTALL LOADBOX CONNECTOR J13, J15, J16, J21, J22, OR J23 (CONT)

NOTE

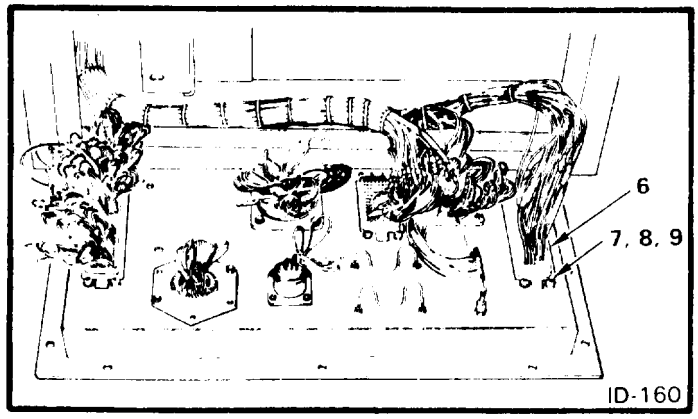
CONNECTOR J13 IS A SHORTING PLUG AND MAY BE REMOVED PRIOR TO REMOVING/REPLACING CONTACTS.

3. **REMOVE CONTACTS FROM CONNECTOR** and label wires as they are removed.

4. **REMOVE CONNECTOR (6)** from panel.

   a. Remove four screws (7), four washers (8), and four nuts (9).

   b. Remove connector (6).



INSTALLATION

1. **INSTALL CONNECTOR** (6) in panel with pin A1 in upper left position.

   a. Position connector.

   b. Install four screws (7), four washers (8), and four nuts (9), and tighten.

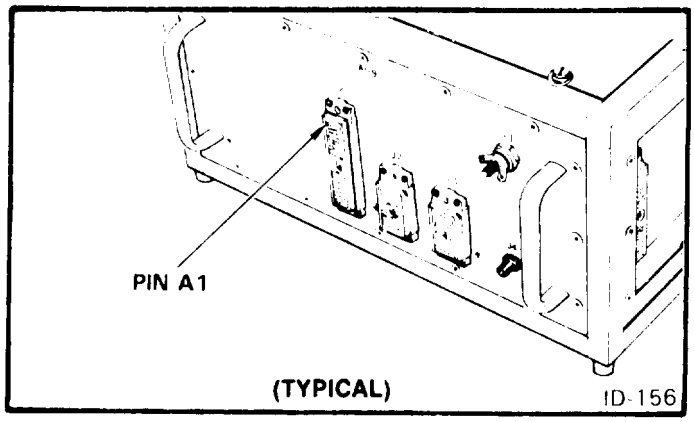
2. **INSERT CONTACTS** in connector and remove labels.

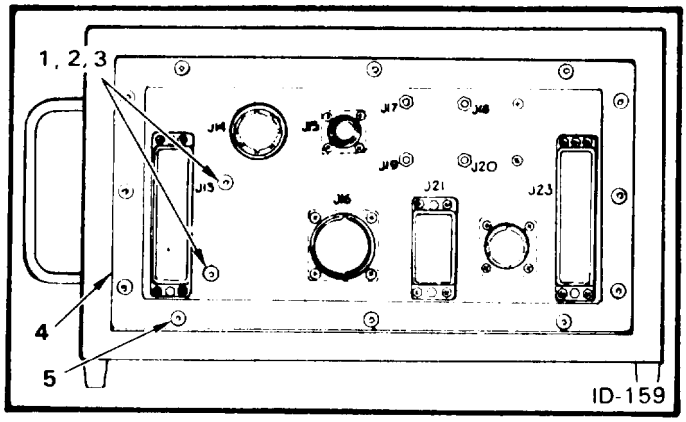
3. **POSITION PANEL** on loadbox. Check for pinched wires.

4. **INSTALL RIGHT SIDE PANEL (4).**

   a. Install twelve socket head screws (5) and tighten.

   b. Install two socket head screws (1), two flat washers (2), and two nuts (3) and tighten.





END OF TASK

3-35. REMOVE/INSTALL LOADBOX CONNECTOR J17, J18 J19, OR J20

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No.1
Screwdriver, cross tip No.2
Socket wrench attachment 5/32-inch
Handle, socket, spin rigid, ¼-inch
Pliers, diagonal cut
Stripper, wire
Solder/Desolder tool
Wrench. box and open ¼-inch

Materials/Parts (Item Nos.; See Appendix C)

Solder (Item 11)
Flux (Item 7)
Connector

Personnel Required

One MOS 35C10

Equipment Condition

Para	Condition Description
3-24	Top and Bottom Louver Panel removed.
3-25	Forward Harness Adapter removed.

REMOVAL

NOTE

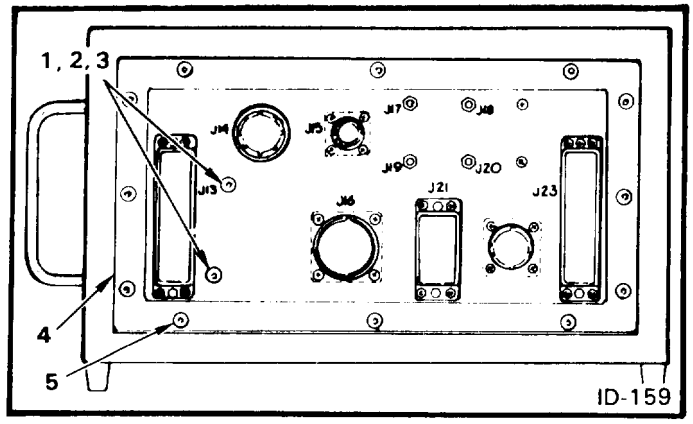
THE SCREWS REMOVED IN THE FOLLOWING STEP ARE LOCATED BETWEEN RECEPTACLES J13 AND J16.

1. **REMOVE TWO SOCKET HEAD SCREWS** (1), two flat washers (2), and two nuts (3) from right side panel.

2. **REMOVE RIGHT SIDE PANEL (4).**

   a. Remove twelve socket head screws (5).

   b. Tilt panel down to allow access to rear of connector.



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3-35. REMOVE/INSTALL LOADBOX CONNECTOR J17, J18, J19, OR J20 (Cont)

3. CUT WIRE FROM CONNECTOR (6).

4. REMOVE NUT (7) and washer (8) and connector (6).

INSTALLATION

1. **INSTALL CONNECTOR (6)** in panel.

   a. Install washer (8) and nut (7) and tighten.

2. **STRIP APPROXIMATELY 1/8-INCH OF INSULATION** from wire.

3. **POSITION WIRE IN SOLDER CUP AND SOLDER WIRE** to connector (6).

4. **POSITION PANEL (4) ON** loadbox. Check for pinched wires.

5. **INSTALL RIGHT SIDE PANEL (4).**

   a. Install twelve socket head screws (5) and tighten.

   b. Install two socket head screws (1), two flat washers (2), and two nuts (3) and tighten.

END OF TASK

2-36. REMOVE/INSTALL LOADBOX CONNECTOR J24, J25, J26, J27, J28, OR J29

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 1
Screwdriver, cross tip No, 2
Installation/Removal tool

Materials/Parts (Item Nos.; See Appendix C)

Identification labels (Item 1)
Connector receptacle

Personnel Required

One MOS 35C10

Equipment Condition

Para.	Condition Description
3-24	Top Louver Panel removed
3-25	Forward Harness Adapter removed

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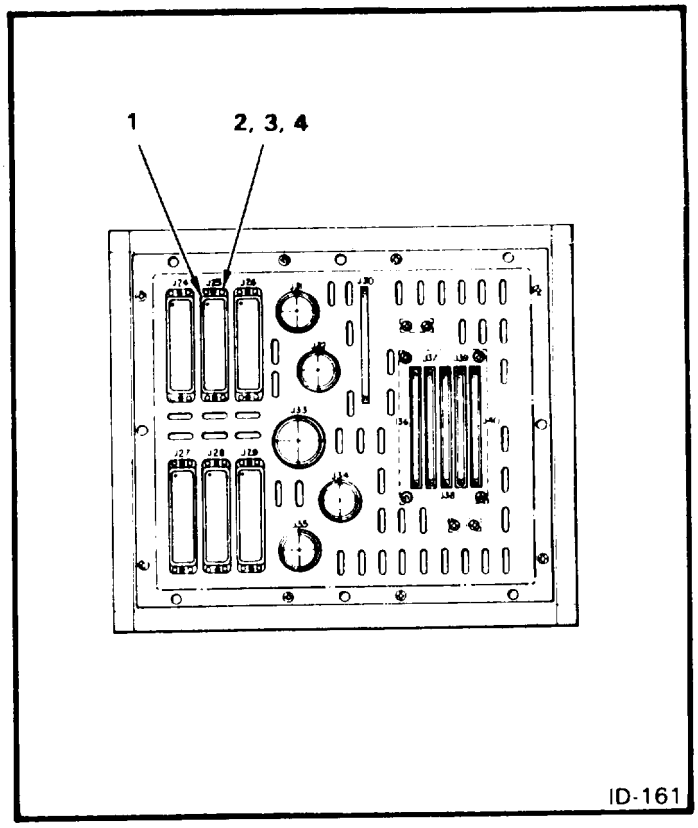
3-36. REMOVE/INSTALL LOADBOX CONNECTOR J24, J25, J26, J27, J28 OR J29 (Cont)



REMOVAL

1. **REMOVE CONTACTS FROM CONNECTOR** and label wires as they are removed.

2. **REMOVE CONNECTOR (1)** from panel.

   a. Remove four screws (2), four lock washers (3), and four nuts (4).

   b. Remove connector (1).

INSTALLATION

1. **INSTALL CONNECIOR (1)** in panel with pin Al in upper left position.

   a. Position connector (1).

   b. Install four screws (2), four lock washers (3), and four nuts (4) and tighten.

2. **INSERT CONTACTS** in connector and remove labels.

END OF TASK

3-37. REMOVE/INSTALL LOADBOX CONNECTOR J9

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 1
Screwdriver, cross tip bit, No. 2
Socket wrench attachment 5/32-inch
Handle, socket, spin rigid,¼- inch
Wrench, box and open, ¼-inch
Solder/Desolder Tool
Pliers, diagonal cut

Materials/Parts (Item Nos.; See Appendix C)

Identification labels (Item 1)
Connector
Flux (Item 7)
Solder (Item 11)

Personnel Required

One MOS 35C10

Equipment Condition

Para	Condition Description
3-24	Bottom and Top Louver Panel removed.
3-25	Forward Harness Adapter removed.

REMOVAL

NOTE

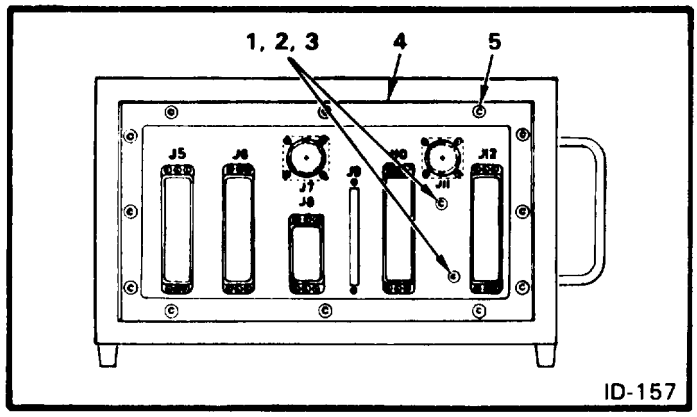
THE SCREWS REMOVED IN THE FOLLOWING STEP ARE LOCATED BETWEEN RECEPTACLES J10 AND J12.

1. REMOVE TWO SOCKET HEAD SCREWS (1), two flat washers (2), and two nuts (3) from left side panel.

2. **REMOVE LEFT SIDE PANEL (4).**

a. Remove twelve socket head screws (5).

b. Tilt panel down to allow access to rear of receptacle.



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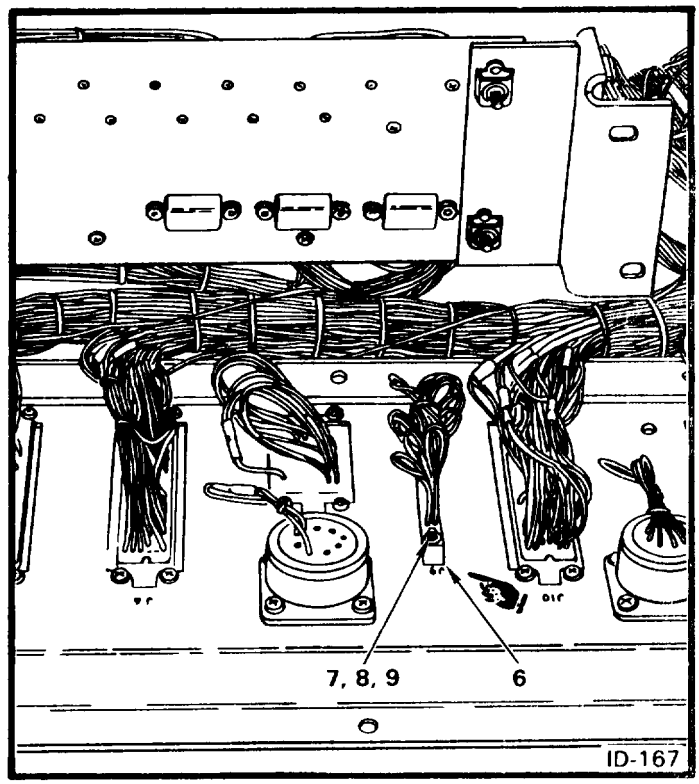
3-37. REMOVE/INSTALL LOADBOX CONNECTOR J9 (Cont)

3. **CUT WIRES FROM CONTACTS** and label wires as they are removed.

4. **REMOVE CONNECTOR** (6) from panel.

   a. Remove two screws (7), four washers (8), and two self-locking nuts (9).

   b. Remove connector.



INSTALLATION

1. **INSTALL CONNECTOR** (6) in panel with pin Al in upper left position.

   a. Install two screws (7), four washers (8), and two self-locking nuts (9) and tighten.

2. **STRIP APPROXIMATELY 3/16-INCH OF INSULATION FROM WIRES.**

3. **SOLDER WIRES** to appropriate contacts

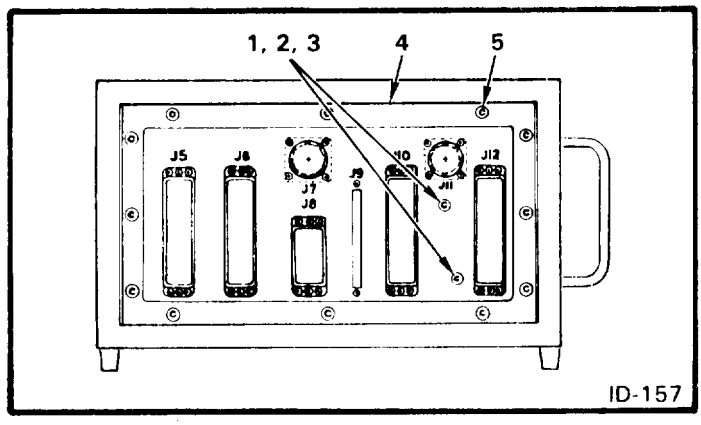
   a. Remove labels.

4. **POSITION PANEL** on loadbox. Check for pinched wires.

5. **INSTALL LEFT SIDE PANEL (4).**

   a. Install twelve socket head screws (5) and tighten.

   b. Install two socket head screws (1), two flat washers (2), and two nuts (3) in left side panel and tighten.



END OF TASK

3-38. REMOVE/INSTALL LOADBOX CASE BUMPERS

This task covers: Removal. Installation.

INITIAL SETUP

Tools and Test Equipment

Screwdriver, cross tip No. 2

Personnel Required

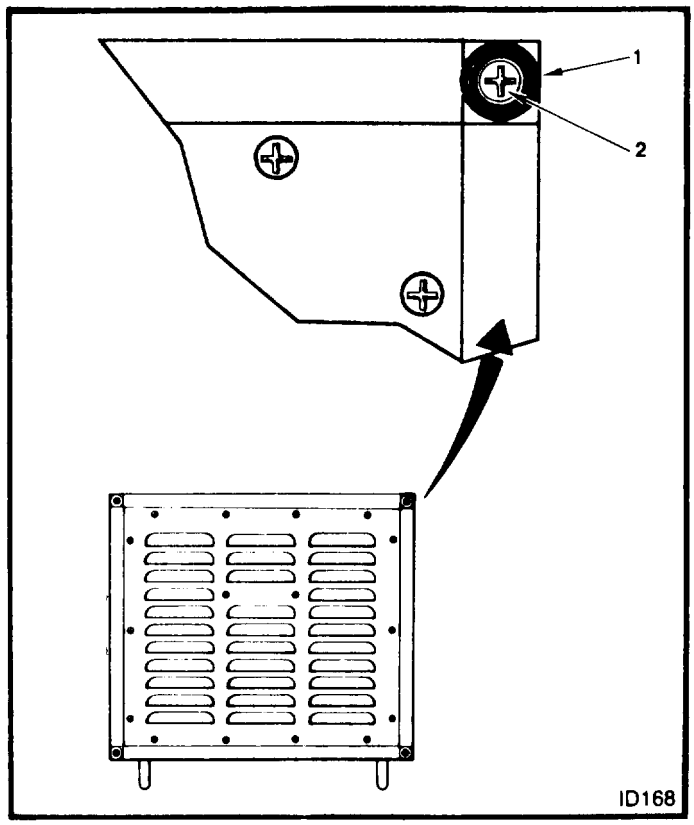
One MOS 35C10

Materials/Parts (Item Nos.; See Appendix C)

Sealant compound (Item 5)
Brush, Artist (Item 14)
Bumper

REMOVAL

1. **REMOVE BUMPER** (1) by removing screw (2).



INSTALLATION

1. **COAT SCREW** (2) with sealant compound
2. **INSTALL BUMPER (1).**
   a. Install screw (2) through bumper (1) and tighten.

END OF TASK

3-39. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY, RELAY

This task covers: Removal. Installation.

INITIAL SETUP

Applicable Configurations

ALL replaceable relays

Tools and Test Equipment

Screwdriver, cross tip No. 1
Screwdriver, cross tip No. 2
Socket wrench attachment 5/32-inch
Handle, socket, spin rigid, ¼-inch
Wrench, box and open end, ¼-inch
Solder/Desolder Tool

Materials/Parts (Item Nos.; See Appendix C)

Identification labels (Item 1)
Flux (Item 7)
Towel, paper (Item 8)
Alcohol, isopropyl (Item 9)
Solder (Item 11)
Relay

Personnel Required

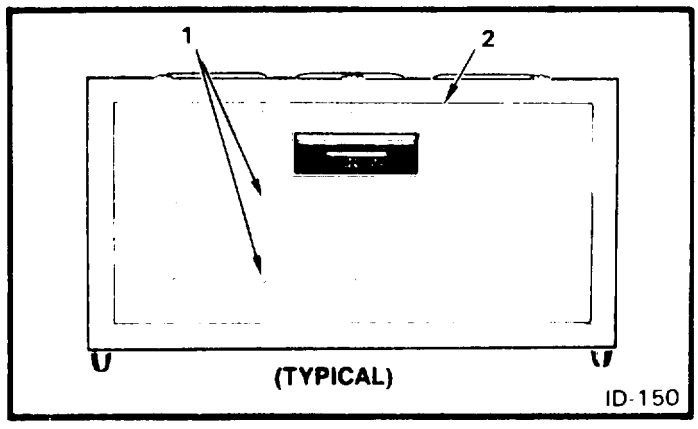
One MOS 35C10

Equipment Condition

Para	Condition Description
3-24	Top and Bottom Louver Panel removed.
3-25	Forward Harness Adapter removed

REMOVAL

1. **REMOVE TWO SOCKET HEAD SCREWS** (1), attaching applicable resistor assembly to rear panel (2).



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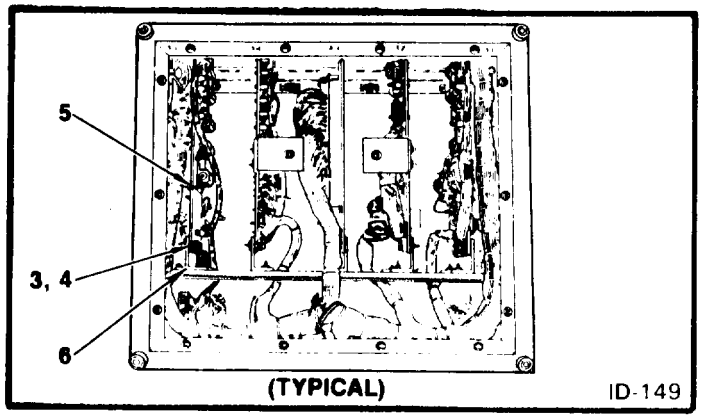
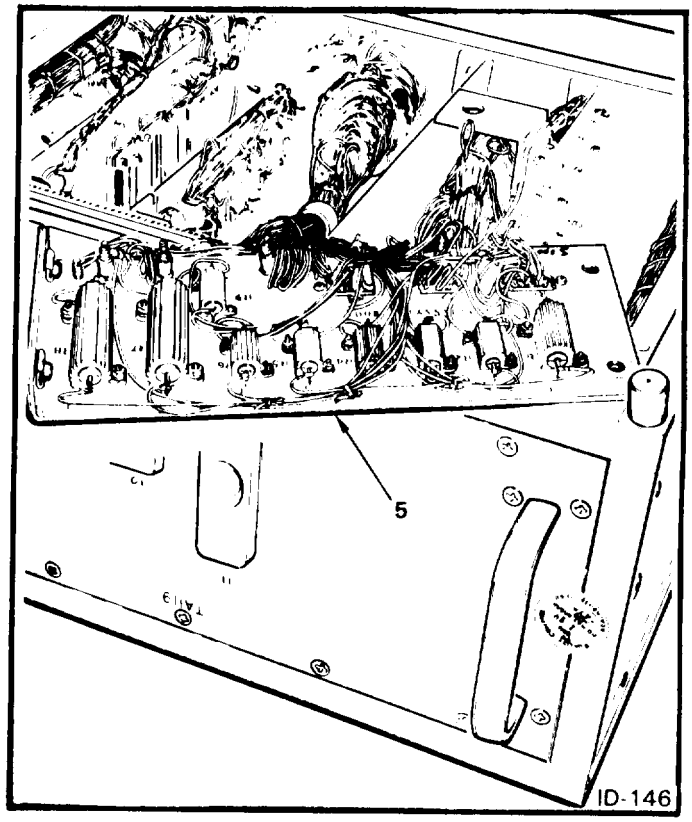
3-39. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY, RELAY (Cont)

2. **REMOVE TWO HEX HEAD SCREWS** (3), and two flat washers (4) attaching applicable resistor assembly (5) to center support (6).



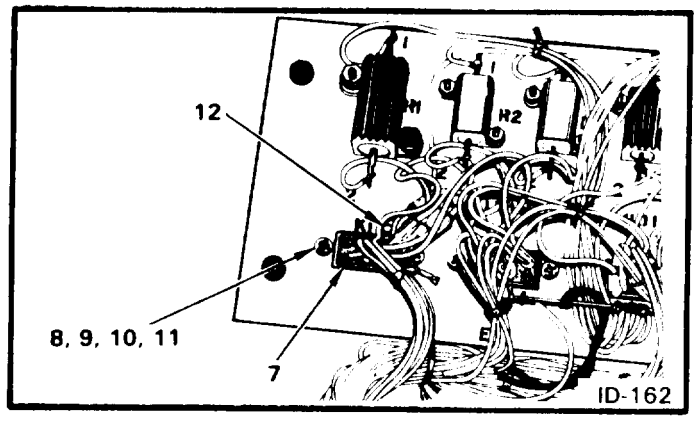
3. **PULL RESISTOR ASSEMBLY (5) THROUGH THE BOTTOM AND TOWARD FRONT OF LOADBOX** to allow access to relay.



4. **DESOLDER AND LABEL WIRES AND DIODE LEADS** from relay.

5. **REMOVE RELAY (7).**

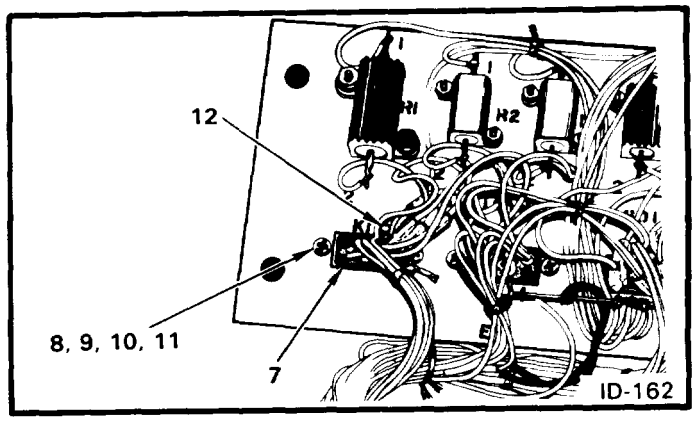
   a. Remove two screws (8), two flat washers (9), two lock washers (10), and two nuts (11).



GO TO NEXT PAGE

3-39. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY, RELAY (Cont)

b. Remove relay and diode (12).



INSTALLATION

1. **INSTALL RELAY (7)** on resistor assembly.

   a. Position relay and install two screws (8), two flat washers (9), two lock washers (10), and two nuts (11).

NOTE

DIODE LEADS AND WIRE LEADS THAT ARE ATTACHED TO THE SAME CONNECTOR SHOULD BE SOLDERED SIMULTANEOUSLY.

2. **SOLDER DIODE AND WIRE LEADS** to relay connectors and remove labels.

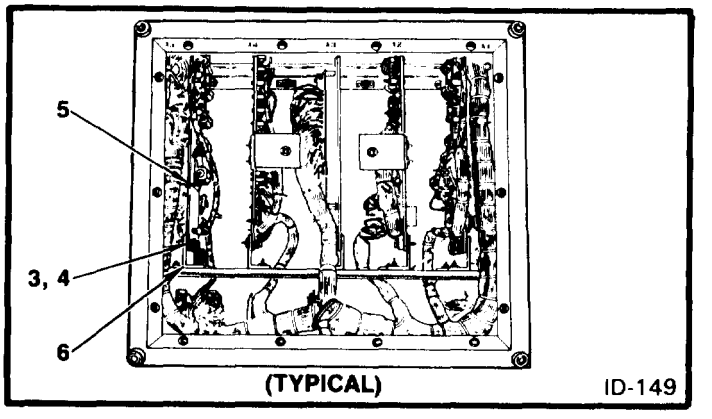
3. **CLEAN RELAY AREA** as required.

4. **POSITION RESISTOR ASSEMBLY** in loadbox. Check for pinched wires.

GO TO NEXT PAGE

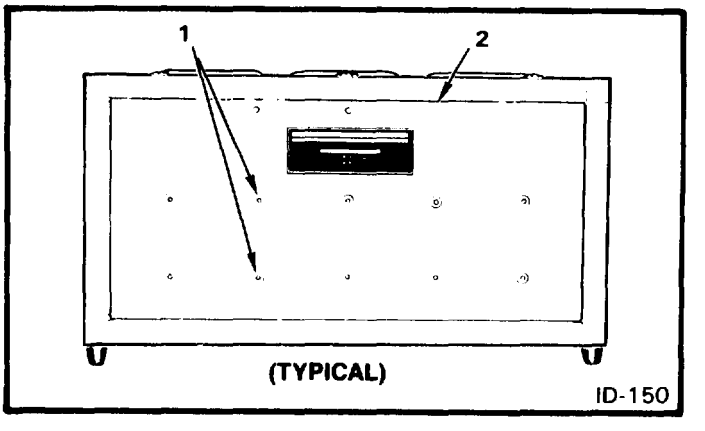
3-39. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY, RELAY (Cont)

5. ATTACH FRONT END OF RESISTOR ASSEMBLY (5) to center support (6) with two screws (3) and two flat washers (4) and tighten.



6. **INSTALL TWO SOCKET HEAD SCREWS** (1) through rearpanel (2).

7. TIGHTEN TWO SCREWS (1).



END OF TASK

APPENDIX A

REFERENCES

A-1. SCOPE

This appendix lists all forms, field manuals, and technical manuals referenced in this manual.

A-2. FORMS

Report of Damaged or Improper Shipment . . . . . DD FORM 6
Accident Report . . . . . DA FORM 285
Recommended Changes to DA Publications. . . . . DA FORM 2028
Recommended Changes to Equipment Technical Manuals . . . . . DA FORM 2028-2
Maintenance Request . . . . . DA FORM 2407
Quulity Deficiency Report . . . . . SF 368

A-3. FIELD MANUALS

First Aid for Soldiers . . . . . FM 21-11

A-4. TECHNICAL MANUALS

Aviation Unit/Aviation Intermediate Maintenance
HELLFIRE Module Missile System
Training Equipment, Guided Missile, Dummy Laser
Part No. 13007376, Guided Missile, Training Laser
Part No. 13007377 . . . . . TM 9-6920-475-13
The Army Maintenance Management System. . . . . DA PAM 738-750
Administrative Storage of Equipment. . . . . TM 740-90-1
Maintenance Instructions
Aviation Unit Maintenance
HELLFIRE Modular Missile System
Launcher, Guided Missile, Aircraft M272
Part No. 13009444
Guided Missile, Surface Attack
AGM-114A, Part No. 13007352 . . . . . .TM 9-1425-475-20
Aviation Intermediate Maintenance,
HELLFIRE Modular Missile System
Launcher, Guided Missile,
Aircraft, M272. . . . . TM 9-1425-475-30-1
Unit Under Test
HELLFIRE Modular Missile System, Launcher,
Guided Missile, Aircraft: M272 . . . . . .TM 9-1425-475-30-2
Repair Parts and Special Tools List. ., ...TM 9-4935-475-3oP

A-5. MISCELLANEOUS PUBLICATIONS

Accident Report and Records AR385-40
Reporting of Damaged or Improper Shipment AR700-58
Safety Manual . . . . . AMCR 385-100

APPENDIX B
MAINTENANCE LOCATION CHART

Section I. INTRODUCTION

B-1. GENERAL

The Maintenance Allocation Chart identifies the components/assemblies against which maintenance action can be taken. It further identifies the type of maintenance action, the time required to complete that action, and the tools and equipment needed for the-job.

B-2. MAINTENANCE FUNCTIONS

Maintenance functions authorized in the manual are:

(1) Inspect.
(2) Service.
(3) Replace.

B-3. COLUMN ENTRIES

Column entries are limited to those explained below.

(1) Group Number; identifies components, assemblies, subassemblies, and modulators with the next higher assembly.

(2) Component/Assembly; proper names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

(3) Maintenance Functions; lists the functions to be performed on component/assembly in Column (2), see paragraph 2, above.

(4) Maintenance Category; the figures in the appropriate subcolumn(s) specify the “Work Time. ” This Work Time represents the average time to restore an item to a serviceable condition under typical field operating conditions. The work time includes preparation time, troubleshooting time, and time to perform the actual maintenance task. I

(5) Tools and Equipment; specifies by codes those common tools and special tools, test, and support equipment required to perform the designated task.

(6) Remarks; Column (6) contains an alphabetic code which leads to the remarks in Section IV, remarks which are pertinent to the item opposite the particular code.

Section II. MAINTENANCE ALLOCATION CHART

Group Number	Component/Assembly	Maintenance Function	Maintenance Category C	O	F	P	D	Tools and Equipment
Z3D1		Repair	.00	.00	.90	.00	.00	
Z3D11A	Shtg Plg Assy TA134	Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.01	.00	.00	0038 0078 0079
Z3D11A1A	56 Pins Shtg Plug	Remove/Replace	.00	.00	.01	.00	.00	0038 0078 0079
		Repair	.00	.00	.00	.00	.00	0022 0038 0059 0061 0067 0082 0086 0088
Z3D11A1B	56 Pins Shtg Plug	Remove/Replace	.00	.00	.01	.00	.00	0078 0079
		Repair	.00	.00	.00	.00	.00	0026 0038 0059 0061 0067 0082 0086 0088
Z3D11B	Shtg Plg Assy TA120	Repair	.00	.00	.01	.00	.00	0038 0078 0079
Z3D11B1A	Shorting Plug P2	Remove/Replace	.00	.00	.01	.00	.00	0038 0078 0079
		Repair	.00	.00	.00	.00	.00	0026 0059 0082 0086 0088
Z3D11B1B	Shorting Plug P2	Remove/Replace	.00	.00	.01	.00	.00	0038 0078 0079
		Repair	.00	.00	.00	.00	.00	0022 0038 0059 0061 0067 0082 0085
Z3D11B1C	Shorting Plug P3	Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.00	.00	.00	0022 0038 0059 0061 0067 0082 0085 0088
Z3D11B1D	Shorting Plug P4	Remove/Replace	.00	.00	.01	.00	.00	0038 0078 0079
		Repair	.00	.00	.00	.00	.00	
Z3D11B1E	Shorting Plug P5	Remove/Replace	.00	.00	.01	.00	.00	0038 0078 0079
		Repair	.00	.00	.00	.00	.00	
Z3D11C	Shtg Plg Assy TA121	Remove/Replace	.00	.00	.01	.00	.00	
Z3D11D	Shtg Plg Assy TA130	Remove/Replace	.00	.00	.01	.00	.00	
Z3D11E	Shtg Plg Assy TA122	Install	.00	.00	.01	.00	.00	
		Remove/Replace	.00	.00	.01	.00	.00	

Section II. MAINTENANCE ALLOCATION CHART (Cont)

Group Number	Component/Assembly	Maintenance Function	Maintenance Category C	O	F	P	D	Tools and Equipment
Z3D11F	Shtg Plg Assy TA129	Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.48	.00	.00	0038 0040 0043 0045 0047 0074 0078 0079 0083 0084 0086 0088
Z3D11G	Shtg Plg Assy TA125	Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.70	.00	.00	0038 0040 0041 0043 0045 0047 0070 0074 0078 0079 0083 0084 0086
Z3D11H	Shorting Plug TA133	Remove/Replace	.00	.00	.01	.00	.00	
Z3D11J1A	Wirg Harness Adapter	Repair	.00	.00	.00	.00	.00	0012 0013 0027 0029 0032 0034 0036 0038 0088
Z3D11K	Transit Case Assy	Inspect	.00	.00	.03	.00	.00	0006
		Service	.00	.00	.04	.00	.00	0006 0007
		Remove/Replace	.00	.00	.01	.00	.00	0033 0037 0092 0093
		Repair	.00	.00	.04	.00	.00	
Z3D11L	Loadbox TA119	Install	.00	.00	.70	.00	.00	0002
		Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	1.27	.00	.00	0001 0003 0008 0009 0023 0030 0031 0035 0036 0041 0044 0050 0051 0054 0055 0059 0060 0061 0062 0063 0064 0065 0068 0069 0070 0075 0083 0088 0090 0091
Z3D11L1A	Resistor Assy A4	Repair	.00	.00	.09	.00	.00	0002 0031 0035 0049 0058 0065 0087 0090
Z3D11L1B	Resistor Assy A1	Repair	.00	.00	.12	.00	.00	0002 0031 0035 0049 0058 0065 0080 0087 0088 0090
Z3D11L1C	Resistor Assy A2	Repair	.00	.00	.12	.00	.00	0002 0031 0035 0049 0058 0065 0080 0081 0087 0088 0090
Z3D11L1D	Resistor Assy A5	Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.09	.00	.00	0002 0031 0035 0049 0058 0065 0087 0090

Section II. MAINTENANCE ALLOCATION CHART (Cont)

Group Number	Component/Assembly	Maintenance Function	Maintenance Category C	O	F	P	D	Tools and Equipment
Z3D11L1F	Resistor Suppt Assy	Repair	.00	.00	.00	.00	.00	0052 0056 0061
Z3D11L1H	Louver Panel Assy	Remove/Replace	.00	.00	2.00	.00	.00	0073
		Repair	.00	.00	.06	.00	.00	0048 0075
Z3D11L1K	Louver Panel Assy	Remove/Replace	.00	.00	.02	.00	.00	
		Repair	.00	.00	.03	.00	.00	0048
Z3D11M	Aft Adapter Assembly	Install	.00	.00	.01	.00	.00	0002
		Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.00	.00	.00	
Z3D2	Test Cable Transit	Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.02	.00	.00	0089
Z3D21A	Cable Assy CA150	Install	.00	.00	.07	.00	.00	0002
		Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.55	.00	.00	0002 0017 0019 0023 0038 0040 0043 0045 0047 0070 0072 0074 0078 0079 0083 0084 0088
Z3D21B	Cable Assy CA151	Install	.00	.00	.01	.00	.00	0002
		Remove/Replace	.00	.00	.01	.00	.00	
Z3D21C	Cable Assy CA152	Install	.00	.00	.01	.00	.00	0002
		Remove/Replace	.00	.00	.02	.00	.00	
		Repair	.00	.00	.71	.00	.00	0002 0038 0040 0043 0045 0047 0074 0078 0079 0083 0084
Z3D21D	Cable Assy CA153	Install	.00	.00	.01	.00	.00	0002
		Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.40	.00	.00	0002 0015 0024 0038 0040 0043 0045 0047 0072 0074 0078 0079 0083 0084 0088

Section II. MAINTENANCE ALLOCATION CHART (Cont)

Group Number	Component/Assembly	Maintenance Function	Maintenance Category C	O	F	P	D	Tools and Equipment
Z3D21E	Cable Assy CA154	Install	.00	.00	.01	.00	.00	0002
		Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.59	.00	.00	0002 0004 0010 0011 0014 0016 0017 0020 0038 0040 0043 0045 0047 0071 0072 0074 0078 0079 0083 0084 0088
Z3D21F	Cable Assy CA155	Install	.00	.00	.01	.00	.00	0002
		Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.34	.00	.00	0002 0010 0011 0014 0016 0017 0020 0038 0039 0040 0043 0045 0047 0072 0074 0078 0079 0083 0084 0088
Z3D21G	Cable Assy CA156	Install	.00	.00	.01	.00	.00	0002
		Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.64	.00	.00	0002 0017 0018 0022 0038 0040 0043 0045 0047 0059 0074 0076 0078 0079 0083 0084 0088
Z3D21H	Cable Assy CA157	Install	.00	.00	.01	.00	.00	0002
		Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.36	.00	.00	0002 0014 0015 0025 0038 0040 0043 0045 0047 0072 0074 0078 0079 0083 0084 0088
Z3D21K	Cable Assy CA158	Install	.00	.00	.01	.00	.00	0002
		Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.29	.00	.00	0002 0005 0014 0015 0021 0025 0038 0040 0043 0045 0046 0047 0072 0074 0078 0079 0083 0084 0088
Z3D3	Adapter Assy Transi	Remove/Replace	.00	.00	.01	.00	.00	
		Repair	.00	.00	.14	.00	.00	0090

Section II. MAINTENANCE ALLOCATION CHART (Cont)

Group Number	Component/Assembly	Maintenance Function	Maintenance Category C	O	F	P	D	Tools and Equipment
Z3D31A	Board Guide Assy	Repair	.00	.00	.00	.00	.00	
		Repair	.00	.00	.00	.00	.00	0035 0042 0050 0090
Z3D31A1a	Board Guide Assy	Repair	.00	.00	.00	.00	.00	0066 0077
Z3D31A1B	Board Retainer Assy	Repair	.00	.00	.00	.00	.00	
Z3D31B	Guide Assy Support	Inspect	.00	.00	.00	.00	.00	0035 0050 0090
		Repair	.00	.00	.00	.00	.00	0035 0042 0050 0090
Z3D31B1A	Board Guide Assy	Repair	.00	.00	.00	.00	.00	0066 0077
Z3D31B1B	Board Retainer Assy	Repair	.00	.00	.00	.00	.00	0035 0050 0090
Z3D31F	Sgnl Contnr Pwa	Repair	.00	.00	.00	.00	.10	0002 0028 0031 0038 0058 0059 0070 0087
Z3D31K	Bracket Assembly	Repair	.00	.00	.00	.00	.01	0053 0057 0061 0066
Z3D31L	Cable Assy TA128	Repair	.00	.00	.82	.00	.00	0002 0038 0040 0043 0045 0047 0074 0083 0084 0086 0088
Z3D31M	Cable Assy TA127	Repair	.00	.00	.88	.00	.00	0002 0038 0040 0043 0045 0047 0074 0083 0084 0088
Z3D31P	PIU Adapter TA113	Install	.00	.00	.01	.00	.00	0002

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

Tool or Test Equipment Reference Code	Maintenance Category	Item Name	National/NATC Stock Number	Tool Number	FSCM
0001	F	Testset, Electronics		AN-USM-410(V)5	
0002	D,F	Testset, Electronics		AN/USM-410(V)5	
0003	F	Testset, Electronics		AN/USM-410(V)5	
0004	F	Testset, Electronics		AN/USM-410(V)5	
0005	F	Crimping Tool		CT-160	

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

Tool or Test Equipment Reference Code	Maintenance Category	Item Name	National/NATC Stock Number	Tool Number	FSCM
0010	F	Insert/Removal Tool		MS27534-16	
0011	F	Insert/Removal Tool		MS27534-20	
0012	D	Pin Extr/Inset Tool		MS27534-22D	
0013	D	Crimping Tool		MS3198-1	
0014	F	Crimping Tool		M22520/1-01	81349
0015	F	Positioner		M22520/1-02	81349
0016	F	Positioner SZ16		M225201/-04	
0017	F	Crimping Tool SZ16		M22520/2-01	
0018	F	Positioner		M22520/2-06	
0019	F	Positioner		M22520/2-07	
0020	F	Positioner SZ20		M22520/2-10	
0022	D,F	Insert/Removal Tool		M81969/12-01	
0023	F	lnstall/Removal Tool		M81969/14-01	
0024	F	Installing Tool		M81969/14-02	
0025	F	Insertion Tool		M81969/14-03	
0026	D	Insert/Removal Tool		M81969112-01	
0027	D	Knife,X-Acto		N02SGK N024BLD	
0028	D	Alignment/Insertion		N04990	
0029	D	Knife, X-Acto		N02SGK N024BLD	
0031	D,F	Desolder/Soler Tool	3439-00-306-9547	3439-00-306-9547	
0033	F	Goggles, Industrial	4240-00-052-3776	4240-00-052-3776	
0034	D	Heat Gun, Portable	4940-00-561-1002	4940-00-561-1002	
0035	D,F	Knife, Pocket	5110-00-240-5943	5110-00-240-5943	
0036	D,F	Stripper, Wire		5110-00-288-7703	
0037	F	Knife, Putty		5110-00-595-8402	
0038	D,F	Pliers, Diag Cutting	5110-00-618-2700	5110-00-618-2700	

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

Tool or Test Equipment Reference Code	Maintenance Category	Item Name	National/NATC Stock Number	Tool Number	FSCM
0039	F	Strippers, Wire		5110-00-781-7914	
0040	F	Strippers, Wire		5110-00-781-7984	
0041	F	Pin Extraction Tool		5120-00-019-0803	
0042	D,F	Wrench, Fixed Open		5120-00-184-8443	
0043	F	Socket, ¼ In		5120-00-189-7919	
0044	F	Key Set, Socket Screw		5120-00-198-5592	
0045	F	AWL		5120-00-221-1542	
0046	F	Plier, Slip Joint		5120-00-223-2396	
0047	F	Pliers, Slip Joint		5120-00-223-7396	
0048	F	Pliers, Short Nose		5120-00-224-1533	
0049	F	Scrdr, Crostip No. 1	5120-00-224-7370	5120-00-224-7370	
0050	D,F	Scrwdr, Crostp No. 2		5120-00-227-7293	
0051	F	Wrench, 7/16 Inch	5120-00-228-9505	5120-00-228-9505	
0052	F	Wrench, Box and Open	5120-00-228-9507	5120-00-228-9507	
0053	D	Wrench, Box and Open	5120-00-228-9508	5120-00-228-9508	
0054	F	Wrench, 3/4 Inch	5120-00-228-9510	5120-00-228-9510	
0055	F	Scrwdr, Crostp No. 2	5120-00-234-8913	5120-00-234-8913	
0056	F	Attachment/Socket	5120-00-236-2263	5120-00-236-2262	
0057	D	Adapter, Socket	5120-00-239-0016	5120-00-239-0016	
0058	D,F	Pliers, Slip Joint		5120-00-239-8252	
0059	D,F	Screwdriver No. 1	5120-00-240-8716	5120-00-240-8716	
0060	F	Handle		5120-00-242-0940	
0061	D,F	Handle, Socket Wrench	5120-00-242-3256	5120-00-242-3256	
0062	F	Wrench, Open End	5120-00-277-4835	5120-00-277-4835	
0063	F	Scrwdr, Flat Tip		5120-00-278-1268	

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

Tool or Test Equipment Reference Code	Maintenance Category	Item Name	National/NATC Stock Number	Tool Number	FSCM
0064	F	Wrench, Box and Open		512040-288-9513	
0065	F	Wrench Box and Open	5120-00-288-9997	5120-00-288-9997	
0066	D	Pliers, Needle Nose		5120-00-293-3481	
0067	D	Crimping Tool		5120-00-494-9237	
0068	F	Key Sets, Sockt Sewr	5120-00-541-5702	5120-00-541-5702	
0096	F	Socket, Wrench Atch		5120-00-596-0940	
0070	D,F	Pliers, Diagonal Cut		5120-00-618-2700	
0071	F	Pliers, Connector		5120-00-624-8005	
0072	F	Pliers, Connector		5120-00-624-0865	
0073	F	Screwdr, Crostp No. 2		5120-00-704-8097	
0074	F	Screwdriver, Flattip		5120-00-764-8060	
0075	F	Screwdr Crostp No. 2		5120-00-764-8097	
0076	F	Wrench, Socket		5120-00-770-0016	
0077	D	Inserter, Screw Thrd		5120-00-797-2404	
0078	F	Crimping Tool		5120-00-827-0197	
0079	F	Crimping Tool Die		5120-0&861&1573	
0080	F	Wrench, Box and Open		5120-00-892-6089	
0081	F	Wrench, Box and Open		5120-00-892-8252	
0082	D	Socket, 5132	5120-00-962-8343	5120-00-962-8343	
0083	F	Pin Extraction Tool		5120-01-019-0803	
0084	F	Crimping Tool		5120-01-019-0812	
0085	D	Multimeter		6625-00-135-0007	
0086	D,F	Multmeter		6625-00-135-0407	
0087	D,F	Brush, Acid Swae		6810-00-476-5613	
0092	F	Glove, Rubber		8415-01-065-3215	
0093	F	Respirator		8725-00-764-8097	

APPENDIX C
EXPENDABLE SUPPLIES AND MATERIALS

Section I. INTRODUCTION

C-1. SCOPE

This appendix lists expendable supplies and materials you will need to operate and maintain the HELLFIRE Modular Missile System Interface Devices. These items are authorized to you by CTA 50-970. Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic items).

C-2. EXPLANATION OF COLUMNS

a. Column l–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. C").

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

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 Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.

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.

Section II- EXPENDABLE SUPPLIES AND MATERIALS LIST

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	F	7690-00-172-3726	Identification Label	
2	F	8110-01-042-1002	Primer Coating	
3	F	7920-00-223-8005	Brush, Acid Swab	
4	F	8030-00-980-3975	Sealing Primer	

APPENDIX C
EXPENDABLE SUPPLIES AND MATERIALS

Section II. EXPENDABLE SUPPLIES AND MATERIALS LIST

(Cont)

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
5	F	8030-00-081-2339	Sealing Compound	
6	F	9525-00-618-5462	Lockwire	
7	F	MIL-F-14256, Type M	Flux	
8	F	7920-00-604-1468	Paper Towel	
9	F	6810-01-127-4246	Isopropyl Alcohol	
10	F	MIS 16322	Thermal Adhesive	
11	F	QQ-S-571-SN63WRM	Solder	
12	F	T-C-451	Abrasive Paper	
13	F	TTN 05, Type 1	Naphtha	
14	F	8020-00-200-6310	Artist Brush	
15	F	MIL-I-43553	Ink, Marking (Color 17875)	
16	F	MIL-I-43553	Ink, Marking (Color 13538)	

APPENDIX D

WIRE LIST

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY

FROM	WIRE ID	TO
A1E5	1426	J1-X6
A1E5	1427	J10-Z1
A1E5	1547	J5-N1
A1E5	1107	J5-Z1
A1E5	1108	J6-Z1
A1K1-A1	1378	A1R1-2
A1K1-A1	1589	J6-P6
A1K1-A2	1374	A1K1-B2
A1K1-A2	1375	J12-A1
A1K1-A2	1376	J12-F6
A1K1-A3	1373	A1K1-B3
A1K1-A3	1377	A1W2
A1K1-B2	1374	A1K1-A2
A1K1-B2	1372	J12-U6
A1K1-B3	1373	A1K1-A3
A1K1-X1	1381	A1K2-X1
A1K1-X1	1379	J12-Y1
A1K1-X2	1385	A1K2-X2
A1K1-X2	1383	J12-Y2
A1K2-A2	1387	J12-D1
A1JC2-A3	1396	A1R3-2
A1K2-A3	1388	J12-V3
A1K2-B2	1389	J12-D2
A1K2-B3	1397	A1R2-2
A1K2-B3	1390	J12-V4
A1K2-X1	1381	A1K1-X1
A1K2-X1	1382	A1K3-X1
A1J2-X2	1385	A1K1-X2
A1K2-X2	1386	A1K3-X2
A1K3-A1	1399	A1R9-2
A1K3-142	1392	J12-D3
A1JC3-A2	1391	J12-V5
A1K3-A3	1398	A1R6-2
A1K3-B1	1401	A1R5-2
A1K3-B2	1394	J12-D4
A1K3-B2	1393	J12-V6
A1K3-B3	1400	A1R4-2
A1K3-X1	1382	A1K2-X1
A1K3-X2	1386	A1K2-X2
A1R1-1	1408	A1W1
A1R1-2	1378	A1K1-A1
A1R2-1	1410	A1W1
A1R2-2	1397	A1K2-B3
A1R3-1	1409	A1W1
A1R3-2	1396	A1K2-A3
A1R4-1	1413	A1W1
A1R4-2	1400	A1K3-B3
A1R5-1	1414	A1W1
A1R5-2	1401	A1K3-B1
A1R6-1	1411	A1W1
A1R6-2	1398	A1K3-A3

FROM	WIRE ID	TO
A1R7-1	1405	A1W1
A1R7-2	1404	A1W2
A1R8-1	1407	A1W1
A1R8-2	1406	A1W2
A1R9-1	1412	A1W1
A1R9-2	1399	A1K3-A1
A1W1	1408	A1R1-l
A1W1	1410	A1R2-1
A1W1	1409	A1R3-1
A1W1	1413	A1R4-1
A1W1	1414	A1R5-1
A1W1	1411	A1R6-1
A1W1	1405	A1R7-1
A1W1	1407	A1R8-1
A1W1	1412	A1R9-1
A1W1	1352	A5W2
A1W1	1422	J1-Y1
A1W1	1418	J1O-W2
A1W1	1433	J12-D5
A1W1	1434	J12-D6
A1W1	1435	J12-E1
A1W1	1436	J12-E2
A1W1	1429	J12-E3
A1W1	1430	J12-E4
A1W1	1431	J12-L2
A1W1	1432	J12-L3
A1W1	1437	J12-W5
A1W1	1438	J12-W6
A1W1	1439	J12-X1
A1W1	0970	XA3-A12
A1W1	0971	XA3-B12
A1W2	1377	A1K1-A3
A1W2	1404	A1R7-2
A1W2	1406	AIR8-2
A1W2	1333	A2K1-13
A1W2	1421	J1-X6
A1W2	1417	J1O-F6
A1W2	1416	J1O-X5
A1W2	1371	J6-X1
A2E9	1250	J1-Y2
A2E9	1282	J1O-G5
A2E9	1019	XA3-A2
A2K1-A1	1322	A2K2-B2
A2K1-A2	1334	A5W1
A2K1-A3	1321	A2K2-A2
A2K1-B1	1333	J12-F6
A2K1-B2	1271	A2W3
A2K1-X1	1326	J12-A5
A2K1-X2	1331	A2K2-X2
A2K2-A1	1313	J12-F3
A2J2-A1	1314	J12-M2
A2K2-A1	1312	J12-W2
A2K2-A2	1321	A2K1-A3
A2K2-A3	1310	J12-F2
A2K2-A3	131I	J12-M1

FROM	WIRE ID	TO
A2K2-A3	1309	J12-W1
A2X2-B1	1319	J12-F4
A2K2-B1	1320	J12-M3
A2K2-Bl	1318	J12-W3
A2K2-B2	1322	A2K1-A1
A2K2-B3	1317	J12-F5
A2K2-B3	1315	J12-M4
A2K2-B3	1316	J12-W4
A2K2-X1	1324	J12-A3
A2K2-X2	1331	A2K1-X2
A2K2-X2	1328	J12-A4
A2R1-1	1294	A2W1
A2R1-2	1293	A2W2
A2R2-1	1296	A2W1
A2R2-2	1295	A2W2
A2R3-1	1298	A2W1
A2R3-2	1297	A2W2
A2R4-1	1304	A2W1
A2R4-2	1303	A2W3
A2R5-1	1300	A2W1
A2R5-2	1299	A2W4
A2R6-1	1302	A2W1
A2R6-2	1301	A2W4
A2R7-1	1305	A2W3
A2R7-2	1306	A2W1
A2W1	1294	A2R1-1
A2W1	1296	A2R2-1
A2W1	1298	A2R3-1
A2W1	1304	A2R4-1
A2W1	1300	A2R5-1
A2W1	1302	A2R6-1
A2W1	1306	A2R7-2
A2W1	1247	J1-L3
A2W1	1252	J1-U2
A2W1	1249	J1-Y5
A2W1	1255	J1O-W3
A2W1	1267	J1O-W4
A2W1	1257	J4-B1
A2W1	1260	J5-R2
A2W1	1263	J6-X5
A2W2	1293	A2R1-2
A2W2	1295	A2R2-2
A2W2	1297	A2R3-2
A2W2	1241	J12-C2
A2W2	1242	J12-C3
A2W2	1243	J12-J1
A2W2	1244	J12-J2
A2W2	1240	J12-V2
A2W2	1588	J6-P2
A2W3	1303	A2R4-2
A2W3	1305	A2R7-1

FROM	WIRE ID	TO
A2W3	1251	J1-VI
A2W3	1254	J10-M4
A2W3	1253	J10-N2
A2W3	1256	J4-A1
A2W3	1262	J6-J4
A2W3	1264	J6-W3
A2W3	1271	A2K1-H2
A2W4	1299	A2R5-2
A2W4	1301	A2R6-2
A2W4	1246	J1-Y3
A2W4	1248	J1-Y6
A2W4	1266	J10-G5
A2W4	1245	J10-WI
A2W4	1261	J6-W1
A2W4	1266	J10-G4
A4E1	1169	A4R1-1
A4E1	1136	J3-A8
A4E1	1159	J5-V5
A4E10	1178	A4R6-2
A4E10	1165	J1-N6
A4E10	1151	J10-L6
A4E10	1147	J6-V6
A4E11	1177	A4R5-1
A4E11	1179	A4R6-1
A4E11	1164	J1-/C3
A4E11	0966	XA3-B43
A4E12	1184	A4R7-2
A4E12	1155	J10-F3
A4E13	1182	A4R8-2
A4E13	1154	J10-S3
A4E13	1142	J3-A1
A4E13	1149	J6-T6
A4E16	0940	J1-N4
A4E16	0941	J1-X5
A4E16	0933	J1-S5
A4E16	1014	XA3-A24
A4E2	1168	A4R1-2
A4E2	1135	J3-A7
A4E2	1143	J6-U2
A4E3	1171	A4R2-1
A4E3	1138	J3-B2
A4E3	1160	J5-V6
A4E4	1170	A4R2-2
A4E4	1137	J3-B1
A4FA	1144	J6-U3
A4E5	1173	A4R3-1
A4E5	1140	J3-A6
A4E5	1161	J5-V4
A4E6	1172	A4R3-2

LOADBOX AND FORWARD HARNESSTEST ASSEMBLY (CONT)

FROM	WIRE ID	TO
A4E6	1139	J3-A5
A4E6	1145	J6-U1
A4E7	1174	A4R4-I1
A4E7	1166	J1-U3
A4E7	1152	J10-H3
A4E7	1147	J6-L6
A4E8	1175	A4R4-2
A4E8	1353	A5W2
A4E8	1167	J1-/C4
A4E8	1153	J10-Y6
A4E9	1176	A4R5-2
A4E9	1163	J1-N5
A4E9	1150	J10-M1
A4E9	1146	J6-K4
A4R1-1	1169	A4E1
A4R1-2	1168	A4E2
A4R2-1	1171	A4E3
A4R2-2	1170	A4E4
A4R3-I	1173	A4E5
A4R3-2	1172	A4E6
A4R4-1	1174	A4E7
A4R4-2	1175	A4E8
A4R5-1	1177	A4E11
A4R5-2	1176	A4E9
A4R6-1	1179	A4E11
A4R6-2	1178	A4E10
A4R7-1	1181	A4WI
A4R7-1	1181	A4W2
A4R7-2	1184	A4E12
A4R8-1	1183	A4W1
A4R8-2	1182	A4E13
A4W1	1181	A4R7-1
A4W1	1183	A4R8-1
A4W1	1156	J10-AI
A4W1	1157	JI0-S6
A4W1	1158	J10-Y5
A4W1	1141	J3-A2
A4W1	1162	J5-V3
A4W2	1181	A4R7-I
A5R1-1	1342	A5W2
A5R1-2	1341	A5W1
A5R2-l	1344	A5W2
A5R2-2	1343	A5W1
A5R3-1	1346	A5W2
A5R3-2	1345	A5W1
A5R4-1	1348	A5W2
A5R4-2	1347	A5W1
A5R5-1	1350	A5W2
A5R5-2	1349	A5W1
A5Wl	1334	A2K1-A2
A5W1	1341	A5R1-2
A5W1	1343	A5R2-2
A5W1	1345	A5R3-2
A5W1	1347	A5R4-2
A5W1	1349	A5R5-2
A5W1	1360	J1-M1
A5W1	1361	J1-M4
A5W1	1362	J1-N3
A5W1	1355	J6-V2
A5W2	1352	A1W1
A5W2	1353	A4E8
A5W2	1342	A5R1-1
A5W2	1344	A5R2-1
A5W2	1346	A5R3-1
A5W2	1348	A5R4-1
A5W2	1350	A5R5-1
A5W2	1357	J1-M2
A5W2	1358	J1-M5
A5W2	1359	J1-N2
A5W2	1356	J5-P4
A5W2	0960	XA3-B33
J1-L3	1247	A2Wl
J1-M1	1360	A5Wl
J1-M2	1357	A5W2
J1-M3	1355	XA3-A32
J1-M4	1361	A5Wl
J1-M5	1358	A5W2
J1-N2	1359	A5W2
J1-N3	1362	A5Wl
J1-N4	0940	A4E16
J1-N5	1163	A4E9
J1-N6	1165	A4E10
J1-P3	0920	XA3-A40
J1-P4	0916	XA3-B37
J1-P5	0914	XA3-A36
J1-P6	0918	XA3-B38
J1-R1	0910	XA3-A34
J1-R2	0912	XA3-A35
J1-R3	0951	XA3-A27
J1-R4	0953	XA3-A26
J1-R5	0943	XA3-A25
J1-R6	0945	XA3-B30
J1-S1	0949	XA3-B28
J1-S2	0956	XA3-B17
J1-S3	0947	XA3-B29
J1-S4	1101	J5-W1
J1-S5	0930	XA3-B23
J1-S6	1109	J5-F2
J1-T1	1110	J5-F6
J1-T2	1111	J5-G4
J1-T3	1112	J5-H2
J1-T4	1113	J5-H6
J1-T6	1102	J5-J4
J1-U2	1252	A2W1
J1-U3	1166	A4E7
J1-U4	1125	J6-P3
J1-U5	1126	J6P4
J1-U6	1114	J5-K2
J1-V1	1251	A2W3
J1-V3	0928	XA3-B21
J1-V4	0926	XA3-B20
J1-V5	0922	XA3-B18
J1-V6	0924	XA3-B19
J1-W1	1121	J6-R2
J1-W2	1122	J6-R6
J1-W3	1123	J6-S4
J1-W4	1124	J6-T2
J1-W5	1103	J5-K6
J1-W6	1115	J5-L4
J1-X1	1116	J5-M2
J1-X2	1117	J5-S3
J1-X3	1118	J5-M6
J1-X4	1119	J5-N4
J1-X5	0941	A4E16
J1-X6	1421	A1W2
J1-Y1	1422	A1W1
J1-Y2	1250	A2E9
J1-Y3	1246	A2W4
J1-Y5	1249	A2W1
J1-Y6	1248	A2W4
J1-/Cl	0959	XA3-B33
J1-/C2	0964	XA3-A43
J1-/C3	1164	A4E11
J1-/C4	1167	A4E8
J1-S5	0933	A4E16
J1-S5	0932	J1-V3
J1-V1	1277	J6-W]
J1-V1	1278	J6-W3
J1-V3	0932	J1-S5
J1-V3	0931	J1-V4
J1-V4	0931	J1-V3
J1-X6	1426	A1E5
J1-X6	1425	J10-F6
J1-Y3	1275	J1-Y6
J1-Y3	1274	J10-W4
J1-Y6	1275	J1-Y3
J1-Y6	1276	J6-W1
J10-A1	1156	A4W2
J10-A2	1419	J10-F6
J10-A6	0917	XA3-B38
J10-B1	0919	XA3-A40
J10-B2	0923	XA3-B19
J10-B3	0921	XA3-B18
J10-B4	0909	XA3-A34
J10-B5	0915	XA3-B37
J10-B6	0927	XA3-B21
J10-C4	0925	XA3-B20
J10-D1	0911	XA3-A35
J10-D2	0913	XA3-A36
J10-D3	0946	XA3-B29
J10-D5	0942	XA3-A25
J10-D6	0944	XA3-B30
J10-E1	0950	XA3-A27
J10-E4	0908	XA3-B32
J10-E5	0952	XA3-A26
J10-E6	0935	XA3-A48
J10-FI	0948	XA3-B28
J10-F3	1155	A4E12
J10-F6	1417	A1W2
J10-F6	1419	J10-A2
J10-04	1268	J11-M5
J10-G5	1266	A2W4
J10-G5	1269	J10-G4
J10-H3	1152	A4E7
J10-K2	0929	XA3-B23
J10-K6	0936	XA3-B48
J10-L6	1151	A4E10
J10-MI	1150	A4E9
J10-M4	1254	A2W3
J10-N2	1253	A2W3
J10-S1	0904	XA3-A13
J10-S2	0905	XA3-A15
J10-S3	1154	A4E13
J10-S4	0907	XA3-A16
J10-S5	0906	XA3-A14
J10-S6	1157	A4W1
JI0-W1	1245	A2W4
J10-W2	1418	A1W1
J10-W3	1255	A2W1
J10-W4	1267	A2W1
J10-W5	0938	XA3-B41
J10-W6	0958	XA3-B33
J10-X1	0962	XA3-B31
J10-X2	0937	XA3-B42
J10-X5	1416	A1W2
J10-X6	0954	XA3-B22
J10-Y5	1158	A4W1
J10-Y6	1153	A4E8
J10-Z1	1427	A1E5
J10-F6	1425	J1-X6
J10-F6	1424	J10-X5
J10-W4	1273	J10-W1
J10-G5	1274	J1-Y3
J10-M4	1280	J10-N2
J10-M4	1281	J4-A1
J10-N2	1280	J10-M4
J10-N2	1279	J6-W3
J10-W1	1273	J10-G5
J10-X5	1424	J10-F6
J11-A	0885	J1l-H
J11-B	0886	J11-G
J11-C	0887	J11-F
J11-D	0889	J11-E
J1l-D	0888	J11-J
J11-E	0889	J11-D
J11-F	0887	J11-C
J1l-G	0886	J11-B
J11-H	0885	J11-A
J11-J	0888	J11-D
J12-A1	1375	A1K1-A2
J12-A3	1324	A2K2-X1
J12-A4	1328	A2K2-X2
J12-A5	1326	A2K1-X1
J12-B4	0968	XA3-A11
J12-C2	1241	A2W2
J12-C3	1242	A2W2
J12-D1	1387	A1K2-A2
J12-D2	1389	A1K2-B2
J12-D3	1392	A1K3-A2
J12-D4	1394	A1K3-B2
J12-D5	1433	A1W1
J12-D6	1434	A1W1
J12-E1	1435	A1WI
J12-E3	1429	A1W1
J12-E4	1430	A1W1
J12-F2	1310	A2K2-A3
J12-F3	1313	A2K2-A1
J12-F4	1319	A2K2-B1
J12-F5	1317	A2K2-B3
J12-F6	1376	A1K1-A2
J12-F6	1333	A2K1-B1
J12-J1	1243	A2W2
J12-J2	1244	A2W2
J12-L2	1431	A1W1
J12-L3	1432	A1W1

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

FROM	WIRE ID	TO
J12-M1	1311	A2K2-A3
J12-M2	1314	A2K2-A1
J12-M3	1320	A2K2-B1
J12-M4	1315	A2K2-B3
J12-U6	1372	A1K1-B2
J12-V1	0907	XA3-B10
J12-V2	1240	A2W2
J12-V3	1388	A1K2-A3
J12-V4	1390	A1K2-B3
J12-V5	1391	A1K3-A2
J12-V6	1393	AHC3-B2
J12-W1	1309	A2K2-A3
J12-W2	1312	A2K2-A1
J12-W3	1318	A2K2-B1
J12-W4	1316	A2K2-B3
J12-W5	1437	A1W1
J12-W6	1438	A1W1
J12-X1	1439	A1Wl
J12-Y1	1379	A1K1-X1
J12-Y2	1383	A1K1-X2
J13-A1	0723	J13-A2
J13-A2	0723	J13-A1
J13-A2	1443	J13-A3
J13-A3	1443	J13-A2
J13-A3	0724	J13-A4
J13-A4	0724	J13-A3
J13-A4	1444	J13-A5
J13-A5	1444	J13-A4
J13-A5	0725	J13-A6
J13-A6	0725	J13-A5
J13-A6	1445	J13-B1
J13-B1	1445	J13-A6
J13-B1	0726	J13-B2
J13-B2	0726	J13-B1
J13-B2	1446	J13-B3
J13-B3	1446	J13-B2
J13-B3	0727	J13-B4
J13-B4	0727	J13-B3
J13-B4	1447	J13-B5
J13-B5	1447	J13-B4
J13-B5	0728	J13-B6
J13-B6	0728	J13-B5
J13-B6	1448	J13-C1
J13-Cl	1448	J13-B6
J13-Cl	0729	J13-C2
J13-C2	1449	J13-C3
J13-C3	1449	J13-C2
J13-C3	0730	J13-C4
J13-C4	0730	J13-C3
J13-C4	1450	J1-C5
J13-C5	1450	J13-C4
J13-C5	0731	J13-C6
J13-C6	0731	J13-C5
J13-C6	1451	J13-Dl
J13-D1	1451	J13-C6
J13-D1	0732	113-D2
J13-D2	0732	J13-D1
J13-D2	1452	J13-D3
J13-D3	1452	J13-D2
J13-D3	0733	J13-D4
J13-D4	0733	J13-D3
J13-D4	1453	J13-D5
J13-D5	1453	J13-D4
J13-D5	0734	J13-D6
J13-D6	0734	J13-D5
J13-D6	1454	J13-E1
J13-E1	1454	J13-D6
J13-E1	0735	J13-E2
J13-E2	0735	J13-E1
J13-E2	1455	J13-E3
J13-E3	1455	J13-E2
J13-E3	0736	J13-E4
J13-E4	0736	J13-E3
J13-E4	1456	J13-E5
J13-E5	1456	J13-E4
J13-E5	0737	J13-E6
J13-E6	0737	J13-E5
J13-E6	1457	J13-F1
J13-F1	1457	J13-J35
J13-F1	0738	J13-F2
J13-F2	0738	J13-F1
J13-F2	1458	J13-F3
J13-F3	1458	J13-F2
J13-F3	0739	J13-F4
J13-F4	0739	J13-F3
J13-F4	1459	J13-F5
J13-F5	1459	J13-F4
J13-F5	0740	J13-F6
J13-F6	0740	J13-F5
J13-F6	1549	J13-02
J13-02	1549	J13-F6
J13-02	0741	J13-03
J13-03	0741	J13-02
J13-03	1548	J13-G4
J13-04	1548	J13-03
J13-04	1461	J13-05
J13-05	1461	J13-04
J13-05	0743	J13-06
J13-06	0743	J13-05
J13-06	1462	J13-H1
J13-H1	1462	J13-06
J13-H1	0744	J13-H2
J13-H2	0744	J13-H1
J13-H2	0742	J13-H3
J13-H3	0742	J13-H2
J13-H3	0745	J13-H4
J13-H4	0745	J13-H3
J13-H4	1464	J13-H5
J13-H5	1464	J13-H4
J13-H5	0746	J13-H6
J13-H6	0746	J13-H5
J13-H6	1465	J13-J1
J13-Jl	1465	J13-H6
J13-J1	0747	J13-J2
J13-J2	0747	J13-J1
J13-J2	1466	J13-J3
J13-J3	1466	J13-J2
J13-J3	0748	J13-J4
J13-J4	0748	J13-J3
J13-J4	1467	J13-J5
J13-J5	1467	J13-J4
J13-J5	0749	J13-J6
J13-J6	0749	J13-J5
J13-J6	1468	J13-K1
J13-Kl	1468	J13-J6
J13-K1	0750	J13-K2
J13-K2	0750	J13-Kl
J13-K2	1469	J13-K3
J13-K3	1469	J13-K2
J13-K3	0751	J13-K4
J13-K4	0751	J13-K3
J13-K4	1470	J13-K5
J13-K5	1470	J13-K4
J13-K5	0752	J13-K6
J13-K6	0752	J13-KS
J13-K6	1471	J13-L1
J13-L1	1471	J13-K6
J13-L1	0753	J13-L2
J13-L2	0753	J13-L1
J13-L2	1472	J13-L3
J13-L3	1472	J13-L2
J13-L3	0754	J13-1A
J13-1A	0754	J13-L3
J13-L4	1473	J13-L5
J13-L5	1473	J13-L4
J13-L5	0755	J13-L6
J13-L6	0755	J13-L5
J13-L6	1474	J13-M1
J13-M1	1474	J13-L6
J13-M1	0756	J13-M2
J13-M2	0746	J13-M1
J13-M2	1475	J13-M3
J13-M3	1475	J13-M2
J13-M3	090I	J13-M4
J13-M4	0901	J13-M3
J13-M4	1476	J13-M5
J13-M5	1476	J13-M4
J13-M5	0902	J13-M6
J13-M6	0902	J13-M5
J13-M6	1477	J13-N1
J13-N1	1477	J13-M6
J13-N1	0757	J13-N2
J13-N2	0757	J13-NI
J13-N2	1478	J13-N3
J13-N3	1478	J13-N2
J13-N3	0758	J13-N4
J13-N4	0758	J13-N3
J13-N4	1479	J13-N5
J13-N5	1479	J13-N4
J13-N5	0759	J13-N6
J13-N6	0759	J13-N5
J13-N6	1480	J13-Pl
J13-P1	1480	J13-N6
J13-P1	0763	J13-P2
J13-P2	0760	J13-P1
J13-P2	1481	J13-P3
J13-P3	1481	J13-P2
J13-P3	0761	J13-P4
J13-P4	0761	J13-P3
J13-P4	1482	J13-P5
J13-P5	1482	J13-P4
J13-P5	0762	J13-P6
J13-P6	0762	J13-P5
J13-P6	1483	J13-R1
J13-Rl	1483	J13-P6
J13-Rl	0763	J13-R2
J13-R2	0763	J13-R1
J13-R2	1484	J13-R3
J13-R3	1484	J13-R2
J13-R3	0764	J13-R4
J13-R4	0764	J13-R3
J13-R4	1485	J13-RS
J13-R5	1485	J13-R4
J13-R5	0765	J13-R6
J13-R6	0765	J13-R5
J13-R6	1486	J13-S1
J13-S1	1486	J13-R6
J13-S1	0766	J13-S2
J13-S2	0766	J13-S1
J13-S2	1487	J13-S3
J13-S3	1487	J13-S2
J13-S3	0767	J13-S4
J13-S4	0767	J13-S3
J13-S4	1488	J13-S5
J13-S5	1488	J13-S4
J13-S5	0768	J13-S6
J13-S6	0768	J13-S5
J13-S6	1489	J13-T1
J13-T1	1489	J13-S6
J13-T1	0769	J13-T2
J13-T2	0769	J13-Tl
J13-T2	1490	J13-T3
J13-T3	1490	J13-T2
J13-T3	0770	J13-T4
J13-T4	0770	J13-T3
J13-T4	1491	J13-T5
J13-T5	1491	J13-T4
J13-T5	0771	J13-T6
J13-T6	0771	J13-T5
J13-T6	1492	J13-U1
J13-U1	1492	J13-T6
J13-U1	0772	J13-U2
J13-U2	0772	J13-U1
J13-U2	1493	J13-U3
J13-U3	1493	J13-U2
J13-U3	0773	J13-U4
J13-U4	0773	J13-U3
J13-U4	1494	J13-U5
J13-U5	1494	J13-U4
J13-U5	0774	J13-U6
J13-U6	0774	J13-U5
J13-U6	1495	J13-Vl
J13-V1	1495	J13-U6
J13-V1	0775	J13-V2
J13-V2	0775	J13-Vl
J13-V2	1496	J13-V3
J13-V3	1496	J13-V2
J13-V3	0776	J13-V4
J13-V4	0776	J13-V3
J13-V4	1497	J13-V5
J13-V5	1497	J13-V4
J13-V5	0777	J13-V6
J13-V6	0777	J13-V5
J13-V6	1498	J13-W1
J13-W1	1498	J13-V6
J13-W1	0778	J13-W2
J13-W2	0778	J13-W1
J13-W2	1499	J13-W3
J13-W3	1499	J13-W2
J13-W3	0779	J13-W4
J13-W4	0779	J13-W3
J13-W4	1500	J13-W5
J13-W5	1500	J13-W4
J13-W5	0780	J13-W6
J13-W6	0780	J13-W5
J13-W6	1501	J13-X1
J13-X1	1501	J13-W6
J13-X1	0781	J13-X2
J13-X2	0781	J13-X1
J13-X2	1502	J13-X3
J13-X3	1502	J13-X2
J13-X3	0782	J13-X4
J13-X4	0782	J13-X3
J13-X4	1503	J13-X5
J13-X5	1503	J13-X4
J13-X5	0783	J13-X6
J13-X6	0783	J13-X5

LOADBOX AND F)RWARD HARNESS TEST ASSEMBLY (CONT)

FROM	WIRE ID	TO
J13-X6	1504	J13-YI
J13-Y1	1504	J13-X6
J13-Y1	0784	J13-Y2
J13-Y2	0784	J13-Y1
J13-Y2	1505	J13-Y3
J13-Y3	1505	J13-Y2
J13-Y3	0785	J13-Y4
J13-Y4	0785	J13-Y3
J13-Z3	0786	J13-Z4
J13-Z4	0786	J13-Z3
J13-Z5	0787	J13-Z6
J13-Z6	0787	J13-Z5
J13-/B6	0788	J13-/C6
J13-/Cl	0790	J13-/C3
J13-/Cl	0791	J13-/C4
J13-/Cl	0792	J13-/C5
J13-/C2	0789	J13-/C6
J13-/C3	0790	J13-/C1
J13-/C4	0791	J13-/C1
J13-/C5	0792	J13-/C1
J13-/C6	0788	J13-/B6
J13-/C6	0789	J13-/C2
J14-1	0688	J14-2
J14-2	0688	J14-1
J14-3	0689	J144
J1 44	0689	J14-3
J14-5	0690	J14-6
J14-6	0690	J14-5
J14-7	0691	J14-8
J14-8	0691	J14-7
J14-9	0692	J14-10
J14-10	0692	J14-9
J14-11	0693	J14-12
J14-12	0693	J14-11
J14-13	0694	J14-14
J14-14	0694	J14-13
J14-15	0695	J14-16
J14-16	0695	J14-15
J14-17	0669	J14-18
J14-18	0696	J14-17
J14-19	0697	J14-20
J14-20	0697	J14-19
J14-21	0698	J14-22
J14-22	0698	J14-21
J14-23	0699	J14-24
J14-24	0699	J14-23
J14-25	0700	J14-26
J14-26	0700	J14-25
J14-27	0701	J14-28
J14-28	0701	J14-27
J14-29	0702	J14-30
J14-30	0702	J14-29
J14-31	0703	J14-32
J14-32	0703	J14-31
J14-33	0704	J14-34
J14-34	0704	J14-33
J14-35	0705	J14-36
J14-36	0705	J14-35
J14-37	0706	J14-38
J14-38	0706	J14-37
J14-39	0707	J1440
J1440	0707	J14-39
J14-41	0708	J14-42
J14-42	0708	J14-41
J14-43	0709	J14-44
J14-44	0709	J14-43
J14-45	0710	J1446
J1446	0710	J1445
J1447	071 1	J14-48
J1448	0711	J1447
J1449	0712	J14-50
J14-50	0712	J14-49
J14-51	0713	J14-52
114-52	0713	J14-51
J14-53	0714	J14-54
J14-54	0714	J14-53
J14-57	0715	J14-58
J14-58	0715	J14-57
J14-59	0716	J14-60
J1440	0716	J14-59
J14-61	0717	J14-62
J14-62	0717	J14-61
J14-63	0718	J14-64
J14-64	0718	J14-63
J14-65	0719	J14-66
J14-66	0719	J14-65
J15-A	0794	J15-B
J15-B	0794	J15-A
J15-C	0797	J15-D
J15-D	0797	J15-C
J15-E	0796	J15-J
J15-F	0793	J15-G
J15-G	0793	J15-F
J15-H	0795	J15-K
J15-J	0796	J15-E
J15-K	0795	J15-H
J16-A	0851	J16-V
J16-B	0852	J16-T
J16-C	0835	J16-/X
J16-D	0831	J16-/E
J16-E	0832	J16-/F
J16-F	0833	J16-/G
J16-G	0834	J16-/H
J16-H	0840	J16-HH
J16-J	0841	J16-K
J16-K	0841	J16-J
J16-L	0843	J16-/D
J16-M	0856	J16-/N
J16-N	0857	J16-CC
J16-P	0838	J16-Y
J16-R	0848	J16-/U
J16-S	0849	J16-/Q
J16-T	0852	J16-B
J16-U	0850	J16-/R
J16-V	0851	J16-A
J16-W	0853	J16-/S
J16-X	0847	J16-/W
J16-Y	0838	J16-P
J16-Z	0836	J16-/V
J16-IA	0846	J16-/K
J16-/B	0839	J16-GG
J16-/C	0858	J16-/P
J16-/D	0843	J16-L
J16-/E	0831	J16-D
J16-IF	0832	J16-E
J16-/G	0833	J16-F
J16-/H	0834	J16-G
J16-/K	0846	J16-/A
J16-/M	0855	J16-BB
J16-/N	0856	J16-M
J16-/P	0858	J16-/C
Jl6-/Q	0849	J16-S
J16-/R	0850	J16-U
J16-/S	0853	J16-W
J16-/T	0854	J16-KK
J16-/U	0848	J16-R
J16-/V	0836	J16-Z
J16-/W	0847	J16-X
J16-/X	0835	J16-C
J16-/Y	0837	J16-/Z
J16-/Z	0837	J16-/Y
J16-AA	0845	J16-JJ
J16-BB	0855	J16-/M
J16-CC	0857	J16-N
J16-DD	0844	J16-LL
J16-EE	0842	J16-FF
J16-FF	0842	J16-EE
J16-GG	0839	J16-lB
J16-HH	0840	J16-H
J16-JJ	0845	J16AA
J16-KK	0854	Jl6-/T
J16-LL	0844	J16-DD
J17-1	0720	J18-1
J18-1	0720	J17-1
J19-1	0721	J20-1
J2-A1	1560	J5-A1
J2-A2	1561	J5-A2
J2-A3	1562	J5-A3
J2-A4	1563	J5-A4
J2-A5	1564	J5-A5
J2-A6	1565	J5-A6
J2-A7	1566	J5-B1
J2-A8	1567	J5-B2
J2-B1	1568	J5-B3
J2-B2	1569	J5-B4
J2-B3	1570	J5-B5
J2-B4	1571	J5-B6
J2-B5	1578	J5-C1
J2-B6	1581	J5-C2
J2-B8	1573	J5W5
J2-Cl	1574	J5-W6
J2-C2	1575	J5-X1
J2-C3	1576	J5-X2
J2-C4	1577	J5-P2
J2-C5	1580	J2-B5
J2-C6	1583	J2-B6
J2-C7	1572	J5-E4
J2-C8	1199	J23-C5
J2-D1	1200	J23-C6
J2-D1	1201	J6-B2
J2-D2	1204	J23-E6
J2-D3	1205	J23-F1
J2-D4	1191	J23-J3
J2-D4	1192	J23-J4
J2-D4	1193	J23-J5
J2-D5	1208	J23-D5
J2-D6	1209	J23-D6
J2-D7	1527	WI
J2-D8	1528	WI
J2-E1	1521	W1
J2-E2	1522	W1
J2-E3	1232	J21-D1
J2-E4	1233	J21-D2
J2-E4	1234	J21-D3
J2-E3	1219	J23-B2
J2-E6	1220	J23-B1
J2-E6	1223	J5-P1
J2-E7	1048	J21-A7
12-ES	1050	J21-A8
J2-F1	1052	J21-Bl
J2-F2	1054	J21-B2
J2-F7	1056	J21-B3
J2-F8	1058	J21-B4
J2-Gl	1060	J21-B5
J2-G2	1062	J21-B6
J2-07	1064	J21-B7
J2-G8	1006	J21-B8
J2-H1	1068	J21-CI
J2-H2	1070	J21-C2
J2-H7	1073	J21-C3
J2-H8	1075	J21-C4
J2-J1	1077	J21-C5
J2-J2	1079	J21-C6
J2-J7	1029	XA3-B1
J2-J8	1031	XA3-B2
J2-K1	1033	XA3-B3
J2-K2	1035	XA3-B4
J2-K3	1037	XA3-B5
J2-K4	1039	XA3-B6
J2-K5	1041	XA3-B7
J2-K6	1043	XA3-B8
J2-K7	1045	XA3-A10
J2-L1	1222	J23-B3
J2-L2	1089	J21-C7
J2-L3	1022	J5-F4
J2-L3	1023	J6-A2
J2-L4	1024	J5-F5
J2-L4	1025	J6-A3
J2-B5	1580	J2-C5
J2-B6	1583	J2-C6
J2-E7	1529	J5-C4
J2-E7	1530	J5-C6
J2-F1	1531	J5-C6
J2-F1	1532	J5-D2
J2-F7	1533	J5-D2
J2-F7	1534	J5-D4
J2-G1	1536	J2-D6
J2-G1	1535	J5-D4
J2-G7	1534	J2-G1
J2-G7	1537	J5-D6
J2-H1	1538	J5-T3
J2-H1	1539	J5-E2
J2-H7	1540	J5-T5
J2-H7	1541	J5-T3
J2-J1	1543	J5-T5
J2-G7		J5-E2
J2-J1		J5-N2
J20-1	0721	J19-I
J21-AI	1511	W1
J21-A2	1512	W1
J21-A3	1513	W1
J21-A4	1514	W1
J21-A7	1048	J2-E7
J21-A7	1047	J5-C4
J21-A8	1050	J2-E8
J21-A8	1049	J5-C5
J21-B1	1052	J2-F1
J21-BI	105 I	J5-C6
J21-B2	1054	J2-F2
J21-B2	1053	J5-Dl
J21-B3	1056	J2-F7

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

FROM	WIRE ID	TO
J21-B3	1055	J5-D2
J21-B4	1058	J2-F8
J21-B4	1057	J5-D3
J21-B5	1060	J2-G1
J21-B5	1059	J5-D4
J21-B6	1062	J2-G2
J21-B6	1061	J5-D5
J21-B7	1064	J2-G7
J21-B7	1063	J5-D6
J21-B8	1066	J2-G8
J21-B8	1065	J5-E1
J21-C1	1068	J2-H1
J21-C1	1067	J5-E2
J21-C2	1070	J2-H2
J21-C2	1069	J5-E3
J21-C3	1073	J2-H7
J21-C3	1072	J5-T3
J21-C4	1075	J2-H8
J21-C4	1074	J5-T4
J21-C5	1077	J2-J1
J21-C5	1076	J5-T5
J21-C6	1079	J2-J2
J21-C6	1078	J5-T6
J21-C7	1089	J2-L2
J21-C7	1546	J5-C4
J21-D1	1232	J2-E3
J21-D2	1233	J2-E4
J21-D3	1234	J2-E4
J21-D4	1235	J6-A1
J22-1	0798	J22-2
J22-2	0798	J22-1
J22-3	0799	J22-1
J22-4	0799	J22-3
J22-5	0800	J22-6
J22-6	0800	J22-5
J22-7	0801	J22-8
J22-8	0801	J22-7
J22-9	0802	J22-10
J22-10	0802	J22-9
J22-11	0803	J22-12
J22-12	0803	J22-11
J22-13	0804	J22-14
J22-14	0804	J22-13
J22-15	0805	J22-16
J22-16	0805	J22-15
J22-17	0806	J22-18
J22-18	0806	J22-17
J22-19	0807	J22-20
J22-20	0807	J22-19
J22-21	0808	J22-22
J22-22	0808	J22-21
J22-23	0809	J22-24
J22-24	0809	J22-23
J22-25	0810	J22-26
J22-26	0810	J22-25
J22-27	0811	J22-28
J22-28	0811	J22-27
J22-29	0812	J22-30
J22-30	0812	J22-29
J22-31	0813	J22-32
J22-32	0813	J22-31
J22-33	0814	J22-34
J22-34	0814	J22-33
J22-35	0815	J22-37
J22-36	0830	J22-41
J22-37	0815	J22-35
J22-38	0816	J22-39
J22-39	0816	J22-38
J22-40	0817	J22-42
J22-41	0830	J22-36
J22-42	0817	J22-40
J22-43	0818	J22-44
J22-44	0818	J22-43
J22-45	0819	J22-46
J22-46	0819	J22-45
J2247	0820	J22-48
J22-48	0820	J22-47
J22-49	0821	J22-50
J22-50	0821	J22-49
J22-51	0822	J22-52
J22-52	0822	J22-51
J22-53	0823	J22-54
J22-54	0823	J22-53
J22-55	0824	J22-57
J22-55	0825	J22-58
J22-57	0824	J22-55
J22-58	0825	J22-55
J22-59	0826	J22-60
J22-60	0826	J22-59
J22-61	0827	J22-62
J22-62	0827	J22-61
J22-63	0828	J22-65
J22-64	0829	J22-66
J22-65	0828	J22-63
J22-66	0829	J22-64
J23-B1	1220	J2-E6
J23-B2	1219	J2-E5
J23-B3	1222	J2-L1
J23-B3	1221	J23-B1
J23-C4	1198	J5-K3
J23-C5	1199	J2-C8
J23-C6	1200	J2-D1
J23-D5	1208	J2-D5
J23-D5	1207	J5-K1
J23-D6	1209	J2-D6
J23-E1	1515	W1
J23-E2	1516	WI
J23-E3	1517	WI
J23-E4	1518	W1
J23-E5	1203	J5-K4
J23-E6	1204	J2-D2
J23-F1	1205	J2-D3
J23-J3	1191	J2-D4
J23-J4	1192	J2-D4
J23-J5	1193	J2-D4
J23-L2	1519	W1
J23-L3	1587	J5-M3
J23-L4	1188	J5-X3
J23-L5	1189	J5-X3
J23-L6	1190	J5-X3
J23-M1	0986	J5-L1
J23-M2	0973	J5-G2
J23-M4	0987	J5-L2
J23-M5	0974	J5-G3
J23-M6	0975	J5-G5
J23-N1	0976	J5-G6
J23-N2	0977	J5-H1
J23-N3	0988	J5-L3
J23-T5	0978	J5-H3
J23-U2	0985	J5-J6
J23-U4	0979	J5-H4
J23-U5	0980	J5-H5
J23-V2	0981	J5-J1
J23-X2	0982	J5-J2
J23-Y1	0983	J5-J3
J23-Y2	0991	J5-M1
J23-Y3	0989	J5-L5
J23-Y5	0984	J5-J5
J23-Y6	0990	J5-L6
J23-B1	1221	J23-B3
J24-A1	0074	J33-K
J24-A2	0001	J30-23
J24-A4	0002	J30-24
J24-A5	0003	J30-25
J24-A6	0004	J30-26
J24-B1	0014	J40-8
J24-B2	0015	J40-14
J24-B3	0016	J40-13
J24-B4	0017	J39-14
J24-B5	0018	J39-49
J24-B6	0019	J39-13
J24-C1	0020	J38-14
J24-C2	0021	J39-49
J24-D1	0022	J38-13
J24-D2	0023	J37-14
J24-D3	0024	J37-49
J24-D4	0025	J37-13
J24-D5	0026	J36-14
J24-D6	0027	J36-49
J24-E4	0028	J36-13
J24-E5	0075	J31-54
J24-E6	0076	J35-54
J24-F1	0077	J34-54
J24-F2	0078	J32-54
J24-F3	0079	J31-8
J24-F4	0080	J35-8
J24-F5	0081	J34-8
J24-F6	0082	J32-8
J24-G2	0029	J40-15
J24-G3	0005	J30-36
J24-G4	0006	J30-1
J24-G5	0030	J39-15
J24-G6	0031	J38-15
J24-H1	0032	J37-15
J24-H2	0033	J36-15
J24-H3	0007	J30-2
J24-H4	0034	J40-17
J24-H5	0035	J40-52
J24-H6	0036	J39-17
J24-J1	0037	J39-52
J24-J2	0038	J38-17
J24-J3	0039	J38-52
J24-J4	0040	J37-17
J24-J5	0041	J37-52
J24-J6	0042	J36-17
J24-K1	0043	J36-52
J24-K2	0008	J30-22
J24-K3	0044	J40-22
J24-K4	0045	J39-22
J24-K5	0046	J38-22
J24-K6	0047	J37-22
J24-L1	0048	J36-22
J24-L2	0083	J33-LL
J24-L3	0009	J30-27
J24-L4	0084	J32-2
J24-L5	0085	J34-2
J24-L6	0086	J31-7
J24-M1	0087	J35-7
J24-M2	0049	J39-1
J24-M3	0088	J33-DD
J24-M4	000o	J30-28
J24-M5	0089	J32-5
J24-M6	0090	J34-5
J24-N1	0091	J31-5
J24-N2	0092	J35-5
J24-N3	0050	J38-1
J24-N4	0011	J30-62
J24-N5	0093	J32-7
J24-N6	0094	J34-7
J24-P1	0095	J31-2
J24-P2	0096	J35-2
J24-P3	0051	J37-1
J24-P4	0012	J30-63
J24-P5	0052	J36-1
J24-P6	0013	J30-21
J24-R1	0053	J40-27
J24-R2	0054	J39-27
J24-R3	0055	J38-27
J24-R4	0056	J37-27
J24-R5	0057	J36-27
J24-R6	0097	J31-60
J24-S1	0058	J39-2
J24-S2	0059	J39-36
J24-S3	0098	J33-JJ
J24-S4	0060	J39-3
J24-S5	0061	J38-3
J24-S6	0062	J37-3
J24-T1	0063	J36-3
J24-T2	0099	J31-61
J24-T3	0100	J35-61
J24-T4	0101	J34-61
J24-T5	0102	J32-61
J24-T6	0103	J31-63
J24-U1	0104	J35-63
J24-U2	0105	J34-63
J24-U3	0106	J32-63
J24-U4	0107	J31-65
J24-U5	0108	J35-65
J24-U6	0109	J34-65
J24-V1	0110	J32-65
J24-V2	0111	J31-62
J24-V3	0004	J39-5
J24-V4	0112	J31-66
J24-V5	0065	J39-40
J24-V6	0066	J39-41
J24-W1	0067	J39-39
J24-W3	0113	J31-36
J24-W4	0068	J39-45
J24-W5	0114	J31-37
J24-W6	0069	J39-70
J24-X1	0115	J31-41
J24-X2	0116	J35-62
J24-X3	0117	J35-66
J24-X4	0070	J38-5
J24-X5	0071	J38-40
J24-X6	0072	J38-41
J24-Y1	0073	J38-70
J24-Y2	0118	J35-41
J25-A1	0199	J35-60
J25-A2	0141	J38-2
J25-A4	0142	J38-36
J25-A5	0200	J33-EE
J25-A6	0119	J30-64
J25-B1	0120	J30-65

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

FROM	WIRE ID	TO
J25-B2	0121	J30-66
J25-B3	0201	J34-6
J25-B4	0202	J32-6
J25-B5	0143	J39-34
J25-B6	0144	J38-34
J25-C1	0145	J37-34
J25-C2	0146	J36-34
J25-D1	0203	J33-FF
J25-D2	0122	J30-29
J25-D3	0123	J30-30
J25-D4	0124	J30-31
J25-D5	0204	J31-6
J25-D6	0205	J35-6
J25-E4	0147	J38-39
J25-E5	0206	J35-36
J25-E6	0148	J38-45
J25-F1	0207	J35-37
J25-F2	0208	J34-60
J25-F3	0149	J37-2
J25-F4	0150	J37-36
J25-F5	0209	J34-62
J25-F6	0210	J34-66
J25-G2	0151	J37-5
J25-G3	0152	J37-40
J25-G4	0153	J37-41
J25-05	0154	J37-39
J25-G6	0211	J34-36
J25-H1	0155	J37-45
J25-H2	0212	J34-37
J25-H3	0156	J37-70
J25-H4	0213	J34-41
J25-H5	0214	J32-60
J25-H6	0157	J36-2
J25-J1	0158	J36-36
J25-J2	0215	J32-62
J25-J3	0216	J32-66
J25-J4	0159	J36-5
J25-J5	0160	J36-40
J25-J6	0161	J36-41
J25-K1	0162	J26-39
J25-K2	0217	J32-36
J25-K3	0125	J30-14
J25-K4	0126	J30-50
J25-K5	0127	J30-15
J25-K6	0128	J30-49
J25-L1	0163	J36-42
J25-L2	0164	J36-43
J25-L3	0165	J36-44
J25-LA	0166	J37-44
J25-L5	0167	J37-43
J25-L6	0168	J37-42
J25-M1	0169	J38-44
J25-M2	J170	J38-43
J25-M3	0171	J38-42
J25-M4	0172	J39-44
J25-M5	0173	J39-43
J25-M6	0174	J39-42
J25-N1	0175	J36-45
J25-N2	0218	J32-37
J25-N3	0176	J36-70
J25-N4	0219	J32-41
J25-N5	0220	J33-AA
J25-N6	0129	J30-52
J25-P1	0130	J30-53
J25-P2	0131	J30-17
J25-P3	0132	J30-18
J25-P4	0221	J33-/Z
J25-P5	0177	J36-48
J25-P6	0178	J37-48
J25-R1	0179	J38-48
J25-R2	0180	J39-48
J25-R3	0181	J36-57
J25-R4	0182	J37-57
J25-R5	0183	J38-57
J25-R6	0184	J39-57
J25-S1	0222	J33-/Y
J25-S2	0185	J36-58
J25-S3	0186	J37-58
J25-S4	0187	J38-58
J25-S5	0188	J39-58
J25-S6	0189	J36-51
J25-T1	0190	J37-51
J25-T2	0191	J38-51
J25-T3	0192	J39-51
J25-T4	0193	J39-61
J25-T5	0133	J30-32
J25-T6	0134	J30-67
J25-U1	0223	J31-1
J25-U2	0224	J314
J25-U3	0225	J31-9
J25-U4	0194	J38-61
J25-U5	0135	J30-33
J25-U6	0136	J30-68
J25-V1	0226	J35-1
J25-V2	0227	J35-4
J25-V3	0228	J35-9
J25-V4	0195	J37-61
J25-V5	0137	J30-35
J25-V6	0138	J30-70
J25-W1	0229	J34-1
J25-W3	0230	J34-4
J25-W4	0Y231	J34-9
J25-W5	0196	J36-61
J25-W6	0232	J32-1
J25-X1	0233	J32-4
J25-X2	0234	J32-9
J25-X3	0139	J30-34
J25-X4	0140	J30-69
J25-X5	0197	J40-1
J25-X6	0235	J33-R
J25-Y1	0198	J40-2
J25-Y2	0236	J32-57
J26-A1	0237	J30-12
J26-A2	0242	J39-26
J26-A4	0243	J38-26
J26-A5	0244	J37-26
J26-A6	0245	J36-26
J26-B1	0238	J30-20
J26-B2	0246	J39-35
J26-B3	0247	J38-35
J26-B4	0248	J37-35
J26-B5	0249	J36-35
J26-B6	0239	J30-19
J26-C1	0250	J39-69
J26-C2	0251	J38-69
J26-D1	0252	J37-69
J26-D2	0253	J36-69
J26-D3	0295	J33-P
J26-D4	02%	J31-38
J26-D5	0291	J35-38
J26-D6	0298	J34-38
J26-E4	0299	J32-38
J26-E5	0300	J33-H
J26-E6	0301	J33-Y
J26-F1	0302	J31-39
J26-F2	0303	J35-39
J26-F3	0304	J34-39
J26-F4	0305	J32-39
J26-F5	0306	J33-J
J26-F6	0307	J33-/B
J26-G2	0308	J31-33
J26-G3	0309	J35-33
J26-G4	0310	J34-33
J26-G5	0311	J32-33
J26-G6	0312	J33-GG
J26-H1	0312	J31-42
J26-H2	0314	J35-42
J26-H3	0315	J34-42
J26-H4	0316	J32-42
J26-H5	0317	J31-53
J26-H6	0254	J39-60
J26-J1	0255	J40-65
J26-J2	0318	J35-53
J26-J3	0256	J38-60
J26-J4	0257	J40-63
J26-J5	0319	134-53
J26-J6	0258	J37-60
J26-Kl	0259	J40-69
J26-K2	0320	J32-53
J26-K3	0260	J36-60
J26-K4	0261	J40-68
J26-K5	0321	J33-/D
J26-K6	0240	J30-51
J26-L1	0241	J30-16
J26-L2	0262	J40-3
J26-L3	0322	J35-57
J26-L4	0263	J40-4
J26-L5	0323	J33-/F
J26-L6	0264	J40-5
J26-M1	0324	J31-57
J26-M2	0265	J40-7
J26-M3	0325	J34-57
J26-M4	0266	J40-9
J26-M5	0326	J33-S
J26-M6	0267	J40-10
J26-N1	0327	J33-N
J26-N2	0268	J40-11I
J26-N3	0328	J33-1P
J26-N4	0269	J40-12
J26-N5	0329	J33-BB
J26-N6	0270	J40-16
J26-P1	0330	J33-M
J26-P2	0271	J40-18
J26-P3	0331	J32-51
J26-P4	0272	J40-19
J26-P5	0332	J34-51
J26-P6	0273	J40-20
J26-R1	0333	J35-51
J26-R2	0274	J40-21
J26-R3	0334	J31-51
J26-R4	0275	J40-23
J26-R5	0335	J34-58
J26-R6	0276	J40-24
J26-S1	0336	J32-58
J26-S2	0277	J40-25
J26-S3	0337	J35-58
J26-S4	0278	J40-26
J26-S5	0338	J31-58
J26-S6	0279	J40-28
J26-T1	0339	J31-52
J26-T2	0280	J40-29
J26-T3	0340	J35-52
J26-T4	0281	J40-30
J26-T5	0341	J34-52
J26-T6	0282	J40-31
J26-U1	0342	J32-34
J26-U2	0283	J40-32
J26-U3	0343	J34-34
J26-U4	0284	J40-33
J26-U5	0344	J32-52
J26-U6	0285	J40-34
J26-V1	0345	J31-34
J26-V2	0286	J40-35
J26-V3	0346	J35-34
J26-V4	0287	J40-36
J26-V5	0347	J33-E
J26-V6	0288	J40-37
J26-W1	0348	J33-D
J26-W3	0289	J40-38
J26-W4	0349	J33-/E
J26-W5	0290	J40-39
J26-W6	0350	J33-F
J26-X1	0291	J40-40
J26-X2	0351	J33-/G
J26-X3	0292	J40-41
J26-X4	0352	J33-G
J26-X5	0293	J40-42
J26-X6	0353	J33-/H
J26-Y1	0294	J40-43
J26-Y2	0354	J33-/Q
J27-A1	0356	J40-44
J27-A2	0415	J33-/R
J27-A4	0357	J40-45
J27-A5	0416	J33-T
J27-A6	0358	J40-46
J27-B1	0417	J33-/S
J27-B2	0359	J40-47
J27-B3	0418	J33-U
J27-B4	0360	J40-48
J27-B5	0419	J33-V
J27-B6	0361	J40-49
J27-C1	0420	J33-W
J27-C2	0362	J40-50
J27-D1	0421	J33-/T
J27-D2	0363	J40-51
J27-D3	0422	J33-X
J27-D4	0364	J40-53
J27-D5	0423	J33-/U
J27-D6	0365	J40-54
J27-E4	0424	J31-32
J27-E5	0366	J40-55
J27-E6	0425	J35-32
J27-F1	0367	J40-56
J27-F2	0426	J34-32
J27-F3	0368	J40-57
J27-F4	0427	J32-32
J27-F5	0369	J40-58
J27-F6	0428	J33-B
J27-G2	0370	J40-59
J27-G3	0429	J33-A
J27-G4	0371	J40-60
J27-G5	0430	J33-/W
J27-G6	0372	J40-61
J27-H1	0431	J33-/A
J27-H2	0373	J40-62
J27-H3	0432	J33-CC

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

FROM	WIRE ID	TO
J27-H4	0374	J40-64
J27-H5	0433	J33-KK
J27-H6	0375	J40-67
J27-J1	0434	J33-/M
J27-J2	0376	J40-70
J27-J3	0435	J33-/N
J27-J4	0377	J39-4
J27-J5	0436	J33-C
J27-J6	0378	J39-6
J27-K1	0437	J31-16
J27-K2	0379	J39-7
J27-K3	0438	J31-13
J27-K4	0380	J39-8
J27-K5	0439	J3146
J27-K6	0381	J39-9
J27-L1	0440	J31-45
J27-L2	0382	J39-10
J27-L3	0441	J31-17
J27-L4	0383	J39-11
J27-L5	0442	J31-14
J27-L6	0384	J39-12
J27-M1	0443	J31-43
J27-M2	0385	J39-16
J27-M3	0444	J31-44
J27-M4	0386	J39-18
J27-M5	0445	J31-40
J27-M6	0387	J39-19
J27-N1	0446	J31-18
J27-N2	0388	J39-20
J27-N3	0447	J31-15
J27-N4	0389	J39-21
J27-N5	0448	J31-25
J27-N6	0390	J39-23
J27-P1	0449	J31-21
J27-P2	0391	J39-24
J27-P3	0450	J31-22
J27-P4	0392	J39-25
J27-P5	0451	J31-19
J27-P6	0393	J39-28
J27-R1	0452	J31-3
J27-R2	0394	J39-29
J27-R3	0453	J31-20
J27-R4	0395	J39-30
J27-R5	0454	J31-24
J27-R6	0396	J39-31
J27-S1	0455	J31-23
J27-S2	0397	J39-32
J27-S3	0456	J31-35
J27-S4	0398	J39-33
J27-S5	0355	J30-61
J27-S6	0399	J39-50
J27-T1	0457	J31-50
J27-T2	0400	J39-53
J27-T3	0458	J31-47
J27-T4	0401	J39-54
J27-T5	0459	J31-48
J27-T6	0402	J39-55
J27-U1	0460	J31-26
J27-U2	0403	J39-56
J27-U3	0461	J31-27
J27-U4	0404	J39-59
J27-U5	0462	J31-49
J27-U6	0405	J39-62
J27-V1	0463	J31-28
J27-V2	0406	J39-63
J27-V3	0464	J31-29
J27-V4	0407	J39-64
J27-V5	0465	J31-30
J27-V6	0408	J39-65
J27-W1	0466	J31-31
J27-W3	0409	J39-66
J27-W4	0467	J31-12
J27-W5	0410	J39-67
J27-W6	0468	J31-11
J27-X1	0411	J384
J27-X2	0469	J33-/X
J27-X3	0412	J38-6
J27-X4	0470	J35-16
J27-X5	0413	J38-7
J27-X6	0471	J35-13
J27-Y1	0414	J38-8
J27-Y2	0472	J35-46
J28-AI	0475	J38-9
J28-A2	0534	J35-45
J28-A4	0476	J38-10
J28-A5	0535	J35-17
J28-A6	0477	J38-11
J28-B1	0536	J35-14
J28-B2	0478	J38-12
J28-B3	0537	J35-43
J28-B4	0479	J38-16
J28-B5	0538	J35-44
J28-B6	0480	J38-18
J28-C1	0539	J35-40
J28-C2	0481	J38-19
J28-D1	0540	J35-18
J28-D2	0482	J38-20
J28-D3	0541	J35-15
J28-D4	0483	J38-21
J28-D5	0542	J35-25
J28-D6	0484	J38-23
J28-E4	0543	J35-21
J28-E5	0485	J38-24
J28-E6	0544	J35-22
J28-FI	0486	J38-25
J28-F2	0545	J35-19
J28-F3	0487	J38-28
J28-F4	0546	J35-3
J28-F5	0488	J38-29
J28-F6	0547	J35-20
J28-G2	0489	J38-30
J28-G3	0548	J35-24
J28-G4	0490	J38-31
J28-G5	0549	J35-23
J28-G6	0491	J38-32
J28-H1	0550	J35-35
J28-H2	0492	J38-33
J28-H3	0473	J30-60
J28-H4	0493	J38-50
J28-H5	0551	J35-50
J28-H6	0494	J38-53
J28-J1	0552	J35-47
J28-J2	0495	J38-54
J28-J3	0553	J35-48
J28-J4	0496	J38-55
J28-J5	0554	J35-26
J28-J6	1554	J38-56
J28-K1	0555	J35-27
J28-K2	0498	J38-59
J28-K3	0556	J35-49
J28-K4	0499	J38-62
J28-K5	0557	J35-28
J28-K6	0500	J38-63
J28-LI	0558	J35-29
J28-L2	0501	J38-64
J28-L3	0559	J35-30
J28-L4	0502	J38-65
J28-L5	0560	J35-31
J28-L6	0503	J38-66
J28-M1	0561	J35-12
J28-M2	0504	J38-67
J28-M3	0562	J35-11
J28-M4	0505	J37-4
J28-M5	0563	J33-/V
J28-M6	0506	J37-6
J28-N1	0564	J34-16
J28-N2	0507	J37-7
J28-N3	0565	J34-13
J28-N4	0508	J37-8
J28-N5	0566	J34-46
J28-N6	0509	J37-9
J28-P1	0567	J34-45
J28-P2	0510	J37-10
J28-P3	0568	J34-17
J28-P4	0511	J37-11
J28-P5	0569	J34-14
J28-P6	0512	J37-12
J28-R1	0570	J34-43
J28-R2	0513	J37-16
J28-R3	0571	J34-44
J28-R4	0514	J37-18
J28-R5	0572	J34-40
J28-R6	0515	J37-19
J28-S1	0573	J34-18
J28-S2	0516	J37-20
J28-S3	0574	J34-15
J28-S4	0517	J37-21
J28-S5	0575	J34-25
J28-S6	0518	J37-23
J28-T1	0576	J34-21
J28-T2	0519	J37-24
J28-T3	0577	J34-22
J28-T4	0520	J37-25
J28-T5	0578	J34-19
J28-T6	0521	J37-28
J28-U1	0579	J34-3
J28-U2	0522	J37-29
J28-U3	0580	J34-20
J28-U4	0523	J37-30
J28-U5	0581	J34-24
J28-U6	0529	J37-31
J28-V1	0582	J34-23
J28-V2	0525	J37-32
J28-V3	0583	J34-3S
J28-V4	0526	J37-33
J28-V5	0474	J30-59
J28-V6	0527	J37-50
J28-W1	0584	J34-50
J28-W3	0528	J37-53
J28-W4	0585	J34-47
J28-W5	0529	J37-54
J28-W6	0586	J34-48
J28-X1	0530	J37-55
J28-X2	0587	J34-26
J28-X3	0531	J37-56
J28-X4	0588	J34-27
J28-X5	0532	J37-59
J28-X6	0589	J34-49
J28-Y1	0533	J37-62
J28-Y2	0590	J34-28
J29-A1	0595	J37-63
J29-A2	0634	J34-29
J29-A4	05%	J37-64
J29-AS	0635	J34-30
J29-A6	0597	J37-65
J29-B1	0636	J34-31
J29-B2	0598	J37-66
J29-B3	0637	J34-12
J29-B4	0599	J37-67
J29-B5	0638	J34-11
J29-B6	0600	J36-4
J29-C1	0639	J33-Z
J29-C2	0601	J36-6
J29-D1	0640	J32-16
J29-D2	0602	J36-7
J29-D3	0641	J32-13
J29-D4	0603	J36-8
J29-D5	0642	J32-46
J29-D6	0604	J36-9
J29-1M	0643	J32-45
J29-E5	0605	J36-10
J29-E6	0644	J32-17
J29-FI	0606	J36-11
J29-F2	0645	J32-14
J29-F3	0607	J36-12
J29-F4	0646	J32-43
J29-F5	0608	J36-16
J29-F6	0647	J32-44
J29-G2	0609	J36-18
J29-G3	0648	J32-40
J29-G4	0610	J36-19
J29-G5	0649	J32-18
J29-G6	06ll	J36-20
J29-H1	0650	J32-15
J29-H2	0612	J36-21
J29-H3	0651	J32-25
J29-H4	0613	J36-23
J29-H5	0652	J32-21
J29-H6	0614	J36-24
J29-J1	0653	J32-22
J29-J2	0615	J36-25
J29-J3	0654	J32-19
J29-J4	0616	J36-28
J29-J5	0655	J32-3
J29-J6	0617	J36-29
J29-K1	0656	J32-20
J29-K2	0618	J36-30
J29-K3	0657	J32-24
J29-K4	0619	J36-31
J29-K5	0658	J32-23
J29-K6	0620	J36-32
J29-L1	0659	J32-35
J29-L2	0621	J36-33
J29-L3	0591	J30-58
J29-LA	0622	J36-50
J29-L5	0660	J32-50
J29-L6	0623	J36-53
J29-M1	0661	J32-47
J29-M2	0624	J36-54
J29-M3	0662	J32-48
J29-M4	0625	J36-55
J29-M5	0663	J32-26
J29-M6	0626	J36-56
J29-N1	0664	J32-27
J29-N2	0627	J36-62
J29-N3	0665	J32-28
J29-N4	0628	J36-63

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

FROM	WIRE ID	TO
J29-N5	0666	132-29
J29-N6	0629	J36-64
J29-P1	0667	J32-30
J29-P2	0630	J36-65
J29-P3	0668	J32-31
J29-P4	0631	J36-66
J29-P5	0669	J32-12
J29-P6	0632	J36-67
J29-R1	0670	J32-11
J29-R2	0633	J36-59
J29-R3	0671	J32-49
J29-R4	0672	J33-/C
J29-R5	0592	J30-10
J29-R6	0673	J33-L
J29-S1	0593	J30-B
J29-S2	0674	J33-1K
J29-S3	0594	J30-7
J29-S5	0676	J35-59
J29-T1	0678	J32-59
J29-T3	0680	J35-10
J29-T5	0682	J32-10
J29-UI	0684	J35-64
J29-U3	0686	J32-64
J29-V1	0675	J31-59
J29-V3	0677	J34-59
J29-V5	0679	J31-10
J29-W6	0685	J34-64
J29-X2	1555	J33-HH
J29-X4	0681	J34-10
J29-X6	0683	J31-64
J3-A1	1142	A4E13
J3-A2	1141	A4W1
J3-A3	1127	J5-E5
J3-A4	1128	J5-E6
J3-A5	1139	A4E6
J3-A6	1140	A4E5
J3-A7	1135	A4E2
J3-A8	1136	A4E1
J3-B1	1137	A4E4
J3-B2	1138	A4J33
J30-1	0006	J24-G4
J30-2	0007	J24-H3
J30-7	0594	J29-S3
J30-8	0593	J29-S1
J30-10	0592	J29-R5
J30-12	0237	J26-A1
J30-14	0125	J25-K3
J30-15	0127	J25-K5
J30-16	0241	J26-L1
J30-17	0131	J25-P2
J30-18	0132	J25-P3
J30-19	0239	J26-B6
J30-20	0238	J26-B1
J30-21	0013	J24-P6
J30-22	0008	J24-K2
J30-23	0001	J24-A2
J30-24	0002	J24-A4
J30-25	0003	J24-A5
J30-26	0004	J24-A6
J30-27	0009	J24-L3
J30-28	0010	J24-M4
J30-29	0122	J25-D2
J30-30	0123	J25-D3
J30-31	0124	J25-D4
J30-32	0133	J25-T5

FROM	WIRE ID	TO
J30-33	0135	J25-U5
J30-34	0139	J25-X3
J30-35	0137	J25-V5
J30-36	0005	J24-G3
J30-49	0128	J25-K6
J30-50	0126	J25-K4
J30-51	0240	J26-K6
J30-52	0129	J25-N6
J30-53	0130	J25-P1
J30-58	0591	J29-L3
J30-59	0474	J28-V5
J30-60	0473	J28-H3
J30-61	0355	J27-S5
J30-62	0011	J24-N4
J30-63	0012	J24-P4
J30-64	0119	J25-A6
J30-65	0120	J25-B1
J30-66	0121	J25-B2
J30-67	0134	J25-T6
J30-68	0136	J25-U6
J30-69	0140	J25-X4
J30-70	0138	J25-V6
J31-1	0223	J25-U1
J31-2	0095	J24-P1
J31-3	0452	127-R1
J31-4	0224	J25-U2
J31-5	0091	J24-N1
J31-6	0204	J25-D5
J31-7	0086	J24-L6
J31-8	0079	J24-F3
J31-9	0225	J25-U3
J3I-10	0679	J29-V5
J31-11	0468	J27-V6
J31-12	0467	J27-W4
J31-13	0438	J27-K3
J31-14	0442	J27-L5
J31-15	0147	J27-M3
J31-16	0437	J27-K1
J31-17	0441	J27-L3
J31-18	0446	J27-N1
J31-19	0451	J27-P5
J31-20	0453	J27-R3
J31-21	0449	J27-P1
J31-22	0450	J27-P3
J31-23	0455	J27-S1
J31-24	0454	J27-R5
J31-25	0448	J27-N5
J31-26	0460	J27-Ul
J31-27	0461	J27-U3
J31-28	0463	J27-V1
J31-29	0464	J27-V3
J31-30	0465	J27-V5
J31-31	0466	J27-W1
J31-32	0424	J27-E4
J31-33	0308	J26-G2
J31-34	0345	J26-V1
J31-35	0456	J27-S3
J31-36	0113	J24-W3
J31-37	0114	J24-W5
J31-38	0296	J26-D4
J31-39	0302	J26-F1
J3140	0445	J27-M5
J31-41	0115	J24X1
J31-42	0312	J26-H1
J31-43	0443	J27-M1
J3144	0444	J27-M3

FROM	WIRE ID	TO
J31-45	0440	J27-L1
J31-46	0439	J27-K5
J31-47	0548	J27-T3
J31-48	0459	J27-T5
J31-49	0462	J27-U5
J31-50	0457	J27-T1
J31-51	0334	J26-R3
J31-52	0339	J26-T1
J31-53	0317	J26-H5
J31-54	0075	J24-E5
J31-57	0324	J26-M1
J31-58	0338	J26-S5
J31-59	0675	J29-V1
J31-60	0097	J24-R6
J31-61	0099	J24-12
J31-62	0111	J24-V2
J31-63	0103	J24-T6
J31-64	0683	J29-X6
J31-65	0107	J24-U4
J31-66	0112	J24-V4
J32-1	0232	J25-N6
J32-2	0084	J24-L4
J32-3	0655	J29-J5
J324	0233	J25-X1
J32-5	0089	J24-M5
J32-6	0202	J25-B4
J32-7	0093	J24-N5
J32-8	0082	J24-P6
J32-9	0234	J25-X2
J32-10	0682	J29-T5
J32-11	0670	J29-R1
J32-12	0669	J29-P5
J32-13	0641	J29-D3
J32-14	0645	J29-F2
J32-15	0650	J29-H1
J32-16	0640	J29-D1
J32-17	0644	J29-E6
J32-18	0649	J29-G5
J32-19	0654	J29-J3
J32-20	0656	J29-K1
J32-21	0652	J29-H5
J32-22	0653	J29-J1
J32-23	0658	J29-K5
J32-24	0657	J29-K3
J32-25	0651	J29-H3
J32-26	0663	J29-M5
J32-27	0664	J29-N1
J32-28	0665	J29-N3
J32-29	0666	J29-N5
J32-30	0667	J29-PI
J32-31	0668	J29-P3
J32-32	0427	J29-F4
J32-33	0311	J29-G5
J32-34	0342	J26-U1
J32-35	0659	J29-L1
J32-36	0217	J25-K2
J32-37	0218	J25-N2
J32-38	0299	J26-E4
J32-39	0305	J26-F4
J32-40	0648	J29-G3
J32-41	0219	J25-N4
J32-42	0316	J26-H4
J32-43	0646	J29-F4
J32-44	0647	J29-F6
J32-45	0643	J29-E4
J32-46	0642	J29-D5

FROM	WIRE ID	TO
J32-47	0661	J29-M1
J32-48	0662	J29-M3
J3249	0671	J29-R3
J32-50	0660	J29-L5
J32-51	0331	J26-P3
J32-52	0344	J26-U5
J32-53	0320	J26-K2
J32-54	0078	J24-F2
J32-57	0236	J25-Y2
J32-58	0336	J26-S1
J32-59	0678	J29-T1
J32-60	0214	J25-H5
J32-61	0102	J24-T5
J32-62	0215	J25-J2
J32-63	0106	J24-U3
J32-64	0686	J29-U3
J32-65	0110	J24-V1
J32-66	0216	J25-J3
J33-A	0429	J27-G3
J33-B	0428	J27-F6
J33-C	0436	J27-J5
J33-D	0348	J26-W1
J33-E	0347	J26-V5
J33-F	0350	J26-W6
J33-G	0352	J26-X4
J33-H	0300	J26-E5
J33-J	0306	J26-F5
J33-K	0074	J24-A1
J33-L	0673	J29-R6
J33-M	0330	J26-P1
J33-N	0327	J26-N1
J33-P	0295	J26-D3
J33-R	0235	J25-X6
J33-S	0326	J26-M5
J33-T	0416	J27-A5
J33-U	0418	J27-B3
J33-V	0419	J27-B5
J33-W	0420	J27-C1
J33-X	0422	J27-D3
J33-Y	0301	J26-E6
J33-Z	0639	J29-C1
J33-/A	0431	J27-H1
J33-/B	0307	J26-F6
J33-/C	0672	J29-R4
J33-/D	0321	J26-K5
J33-/E	0349	J26-W4
J33-/F	0323	J26-L5
J33-/G	0351	J26-X2
J33-/H	0353	J26-X6
J33-/K	0674	J29-S2
J33-/M	0434	J27-J1
J33-/N	0435	J27-J3
J33-/P	0328	J26-N3
J33-/Q	0354	J26-Y2
J33-/R	0415	J27-A2
J33-/S	0417	J27-Bl
J33-/T	0421	J27-D1
J33-/U	0423	J27-D5
J33-/V	0563	J28-M5
J33-/W	0430	J27-G5
J33-/X	0469	J27-X2
J33-/Y	0222	J25-S1
J33-/Z	0221	J25-P4
J33-AA	0220	J25-N5
J33-BB	0329	J26-N5
J33-CC	0432	J27-H3

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

FROM	WIRE ID	TO
J33-DD	0088	J24-M3
J33-EE	0200	J25-A5
J33-FF	0203	J25-D1
J33-GG	0312	J26-G6
J33-HH	1555	J29-X2
J33-JJ	0098	J24-S3
J33-KK	0433	J27-H5
133-LL	0083	124-L2
J34-1	0229	J25-W1
J34-2	0085	J24-L5
J34-3	0579	J28-U1
J34-4	0230	J25-W3
J34-5	0090	J24-M6
J34-6	0201	J25-B3
J34-7	0094	J24-N6
J34-8	0081	J24-F5
J34-9	0231	J25-W4
J34-10	0681	J29-X4
J34-11	0638	J29-B5
J34-12	0637	J29-B3
J34-13	0565	J28-N3
J34-14	0569	J28-P5
J34-15	0574	J28-S3
J34-16	0564	J28-N1
J34-17	0568	J28-P3
J34-18	0573	J28-S1
J34-19	0578	J28-T5
J34-20	0580	J28-U3
J34-21	0576	J28-T1
J34-22	0577	J28-T3
J34-23	0582	J28-V1
J34-24	0581	J28-U5
J34-25	0575	J28-S5
J34-26	0587	J28-X2
J34-27	0588	J28-X4
J34-28	0590	J28-Y2
J34-29	0634	J29-A2
J34-30	0635	J29-A5
J34-31	0636	J29-B1
J34-32	0426	J27-F2
J34-33	0310	J26-G4
J34-34	0343	J26-U3
J34-35	0583	J28-V3
J34-36	0211	J25-G6
J34-37	0212	J25-H2
J34-38	0298	J26-D6
J34-39	0304	J26-F3
J34-40	0572	J28-R5
J34-41	0213	J25-H4
J34-42	0315	J26-H3
J34-43	0570	J28-R1
J34-44	0571	J28-R3
J34-45	0567	J28-P1
J34-46	0566	J28-N5
J34-47	0585	J28-W4
J34-48	0586	J28-W6
J34-49	0589	J28-X6
J34-50	0584	J28-W1
J34-51	0332	J26-P5
J34-52	0341	J26-T5
J34-53	0319	J26-J5
J34-54	0077	J24-F1
J34-57	0325	J26-M3
J34-58	0335	J26-R5
J34-59	0677	J29-V3
J34-60)	0208	J25-F2

FROM	WIRE ID	TO
J34-61	0101	J25-T4
J34-62	0209	J25-F5
J34-63	0105	J24-U2
J34-64	0685	J29-W6
J34-65	0109	J24-U6
J34-66	0210	J25-F6
J35-1	0226	J25-V1
J35-2	0096	J24-F2
J35-3	0546	J28-F4
J35-4	0227	J25-V2
J35-5	0092	J24-N2
J35-6	0205	J25-D6
J35-7	0087	J24-M1
J35-8	0080	J24-F4
J35-9	0228	J25-V3
J35-10	0680	J29-T3
J35-11	0562	J28-M3
J35-12	0561	J28-M1
J35-13	0471	J27-X6
J35-14	0536	J28-B1
J35-15	0541	J28-D3
J35-16	0470	J27-X4
J35-17	0535	J28-A5
J35-18	0540	J28-D1
J35-19	0545	J28-F2
J35-20	0547	J28-F6
J35-21	0543	J28-E4
J35-22	0544	J28-E6
J35-23	0549	J28-05
J35-24	0548	J28-G3
J35-25	0542	J28-D5
J35-26	0554	J28-J5
J35-27	0555	J28-K1
J35-28	0557	J28-K5
J35-29	0558	J28-L1
J35-30	0559	J28-L3
J35-31	0560	J28-L5
J35-32	0425	J27-E6
J35-33	0309	J26-G3
J35-34	0346	J26-V3
J35-35	0550	J28-H1
J35-36	0206	J25-E5
J35-37	0207	J25-F1
J3S-38	0297	J26-D5
J35-39	0303	J26-F2
J35-40	0539	J28-C1
J35-41	0118	J34-Y2
J35-42	0314	J26-H2
J35-43	0537	J28-B3
J35-44	0538	J28-B5
J35-45	0534	J28-A2
J35-46	0472	J27-Y2
J35-47	0552	J28-J1
J35-48	0553	J28-J3
J35-49	0556	J28-K3
J35-50	0551	J28-H5
J35-51	0333	J26-R1
J35-52	0340	J26-T3
J35-53	0318	J26-J2
J35-54	0076	J24-F6
J35-57	0322	J26-L3
135-58	0337	J26-S3
J35-59	0676	J29-S5
J35-60	0199	J25-A1
J35-61	0100	J24-T3
J35-62	0116	J24-X2

FROM	WIRE ID	TO
J35-63	0104	J24-U1
J25-64	0684	J29-U1
J35-65	0108	J24-U5
J35-66	0117	J24-X3
J36-1	0052	J24-P5
J36-2	0157	J25-H6
J36-3	0063	J24-T1
J36-4	0600	J29-B6
J36-5	0159	J25-J4
J36-6	0601	J29-C2
J36-7	0602	J29-D2
J36-8	0603	J29-D4
J36-9	0604	J29-D6
J36-10	0605	J29-E5
J36-11	0606	J29-F1
J36-12	0607	J29-F3
J36-13	0028	J24-E4
J36-14	0026	J24-D5
J36-15	0033	J24-H2
J36-16	0608	J29-F5
J36-17	0042	J24-J6
J36-18	0609	J29-02
J36-19	0610	J29-G4
J36-20	0611	J29-06
J36-21	0612	J29-H2
J36-22	0048	J24-L1
J36-23	0613	J29-H4
J36-24	0614	J29-H6
J36-25	0615	J29-J2
J36-26	0245	J26-A6
J36-27	0057	X24-R5
J36-28	0616	J29-J4
J36-29	0617	J29-J6
J36-30	0618	J29-K2
J36-31	0619	J29-K4
J36-32	0620	J29-K6
J36-33	0621	J29-L2
J36-34	0146	J25-C2
J36-35	0249	J26-B5
J36-36	0158	J25-J1
J36-39	0162	J25-K1
J36-40	0160	J25-J5
J36-41	0161	J25-J6
J36-42	0163	J25-L1
J36-43	0164	J25-L2
J36-44	0165	J25-L3
J36-45	0175	J25-N1
J36-48	0177	J25-P5
J36-49	0027	J24-D6
J36-50	0622	J29-L4
J36-51	0189	J25-S6
J36-52	0043	J24-K1
J36-53	0623	J29-L6
J36-54	0624	J29-M2
J36-55	0625	J29-M4
J36-56	0626	J29-M6
J36-57	0181	J25-R3
J36-58	0185	J25-S2
J36-59	0633	J29-R2
J36-60	0260	J26-K3
J36-61	0196	J25-W5
J36-62	0627	J29-N2
J36-63	0628	J29-N4
J36-64	0629	J29-N6
J36-65	0630	J20-P2
J36-66	0631	J29-P4

FROM	WIRE ID	TO
J36-67	0632	J29-P6
J36-69	0253	J26-D2
J36-70	0176	J25-N3
J37-1	0051	J24-P3
J37-2	0149	J25-F3
J37-3	0062	J24-S6
J37-4	0505	J28-M4
J37-5	0151	J25-02
J37-6	05436	J28-M6
J37-7	0507	J28-N2
J37-8	0508	J28-N4
J37-9	0509	J28-N6
J37-10	0510	J28-P2
J37-11	0511	J28-P4
J37-12	0512	J28-P6
J37-13	0025	J24-D4
J37-14	0023	J24-D2
J37-15	0032	J24-H1
J37-16	0513	J28-R2
J37-17	0040	J24-J4
J37-18	0514	J28-R4
J37-19	0515	J28-R6
J37-20	0516	J28-S2
J37-21	0517	J28-S4
J37-22	0047	J24-K6
J37-23	0518	J28-S6
J37-24	0519	J28-T2
J37-25	0520	J28-T4
J37-26	0244	J26-A5
J37-27	0056	J24-R4
J37-28	0521	J28-T6
J37-29	0522	J28-U2
J37-30	0523	J28-U4
J37-31	0529	J28-U6
J37-32	0525	J28-V2
J37-33	0526	J28-V4
J37-34	0145	J25-C1
J37-35	0248	J26-B4
J37-36	0150	J25-F4
J37-39	0154	J25-G5
J37-10	0152	J25-C33
J3741	0153	J25-G4
J37-42	0168	J25-L6
J37-43	0167	J25-L5
J3744	0166	J25-L4
J37-45	0155	J25-H1
J37-48	0178	J25-P6
J37-49	0024	J24-D3
J37-50	0527	J28-V6
J37-51	0190	J25-T1
J37-52	0041	J24-J5
J37-53	0528	J28-W3
J37-54	0529	J28-W5
J37-55	0530	J28-X1
J37-56	0531	J28-X3
J37-58	0182	J25-R4
J37-58	0186	J25-S3
J37-59	0532	J28-X5
J37-60	0258	J26-J6
337-61	0195	J25-V4
J37-62	0533	J28-Y1
J37-63	0595	J29-A1
J37-64	0596	J29-A4
J37-65	0597	J29-A6
137-66	0598	J29-B2
J37-67	0599	J29-B4

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

FROM	WIRE ID	TO
J37-69	0252	J26-D1
J37-70	0156	J25-H3
J38-1	0050	J24-N3
J38-2	0141	J25-A2
J38-3	0061	J24-S5
J384	0411	J27-X1
J38-5	0070	J24-X4
J38-6	0412	J27-X3
J38-7	0413	J27-X5
J38-8	0414	J27-Y1
J38-9	0475	J28-A1
J38-10	0476	J28-A4
J38-11	0477	J28-A6
J38-12	0478	J28-B2
J38-13	0022	J24-D1
J38-14	0020	J24-C1
J38-15	0031	J24-G6
J38-16	0479	J28-B4
J38-17	0038	J24-J2
J38-18	0480	J28-B6
J38-19	0481	J28-C2
J38-20	0482	J28-D2
J38-21	0483	J28-D4
J38-22	0046	J24-K5
J38-23	0484	J28-D6
J38-24	0485	J28-E5
J38-25	0486	J28-F1
J38-26	0243	J26-A4
J38-27	0055	J24-R3
J38-28	0487	J28-F3
J38-29	0488	J28-F5
J38-30	0489	J28-G2
J38-31	0490	J28-G4
J38-32	0491	J28-G6
J38-33	0492	J28-H2
J38-34	0144	J25-B6
J38-35	0247	J26-B3
J38-36	0142	J25-A4
J38-39	0147	J25-E4
J38-40	0071	J24-X5
J38-41	0072	J24-X6
J38-42	0171	J25-M3
J38-43	0170	J25-M2
J38-44	0169	J25-M1
J38-45	0148	J25-E6
J38-48	0179	J25-RI
J38-49	0021	J24-C2
J38-50	0493	J28-H4
J38-51	0191	J25-T2
J38-52	0039	J24-J3
J38-53	0494	J28-H6
J38-54	0495	J28-J2
J38-55	0496	J28-J4
J38-56	1554	J28-J6
J38-57	0183	J25-R5
J38-58	0187	J25-S4
J38-59	0498	J28-K2
J38-60	0256	J26-J3
J38-61	0194	J25-U4
J38-62	0499	J28-K4
J38-63	0500	J28-K6
J38-64	0501	J28-L2
J38-65	0502	J28-L4
J38-66	0503	J28-L6
J38-67	0504	J28-M2
J38-69	0251	J26-C2
J38-70	0073	J24-Y1
J39-1	0049	J24-M2
J39-2	0058	J24-S1
J39-3	0060	J24-S4
J394	0377	J27-J4
J39-5	0064	J24-V3
J39-6	0378	J27-J6
J39-7	0379	J27-K2
J39-8	0380	J27-K4
J39-9	0381	J27-K6
J39-10	0382	J27-L2
J39-11	0383	J27-L4
J39-12	0384	J27-L6
J39-13	0019	J24-B6
J39-14	0017	J24-B4
J39-15	0030	J24-G5
J39-16	0385	J27-M2
J39-17	0036	J24-H6
J39-18	0386	J27-M4
J39-19	0387	J27-M6
J39-20	0388	J27-N2
J39-21	0389	J27-N4
J39-22	0045	J24-K4
J39-23	0390	J27-N6
J39-24	0391	J27-P2
J39-25	0392	J27-P4
J39-26	0242	J26-A2
J39-27	0054	J24-R2
J39-28	0393	J27-P6
J39-29	0394	J27-R2
J39-30	0395	J27-R4
J39-31	0396	J27-R6
J39-32	0397	J27-S2
J39-33	0398	J27-S4
J39-34	0143	J25-B5
J39-35	0246	J26-B2
J39-36	0059	J24-S2
J39-39	0067	J24-W1
J39-40	0065	J24-V5
J39-41	0066	J24-V6
J39-42	0174	J25-M6
J39-43	0173	J25-M5
J39-44	0172	J25-M4
J39-45	0068	J24-W4
J39-48	0180	J25-R2
J39-49	0018	J24-B5
J39-50	0399	J27-S6
J39-51	0192	J25-T3
J39-52	0037	J24-J1
J39-53	0400	J27-T2
J39-54	0401	J27-T4
J39-55	0402	J27-T6
J39-56	0403	J27-U2
J39-57	0184	J25-R6
J39-58	0188	J25-S5
J39-59	0404	J27-U4
J39-60	0254	J26-H6
J39-61	0193	J25-T4
J39-62	0405	J27-U6
J39-53	0406	J27-V6
J39-64	0407	J27-V4
J39-65	0408	J27-V6
J39-66	0409	J27-W3
J39-67	0410	J27-W5
J39-69	0250	J26-C1
J39-70	0069	J24-W6
J4-A1	1256	A2W3
J4-B1	1257	A2W1
J4-A1	1282	A2E9
J4-A1	1281	J10-M4
J4-A1		J10-G5
J40-1	0197	J25-X5
J40-2	0198	J25-Y1
J40-3	0262	J26-L2
J40-4	0263	J26-L4
J40-5	0264	J26-L6
J40-7	0265	J26-M2
J40-8	0014	J24-B1
J40-9	0266	J26-M4
J40-10	0267	J26-M6
J40-11	0268	J26-N2
J40-12	0269	J26-N4
J40-13	0016	J24-B3
J40-14	0015	J24-B2
J40-15	0029	J24-G2
J40-16	0270	J26-N6
J40-17	0034	J24-H4
J40-18	0271	J26-P2
J40-19	0272	J26-P4
J40-20	0273	J26-P6
J40-21	0274	J26-R2
J40-22	0044	J24-K3
J40-23	0275	J26-R4
J40-24	0276	J26-R6
J40-25	0277	J26-S2
J40-26	0278	J26-S4
J40-27	0053	J24-R1
J40-28	0279	J26-S6
J40-29	0280	J26-T2
J40-30	0281	J26-T4
J40-31	0282	J26-T6
J40-32	0283	J26-U2
J40-33	0284	J26-U4
J40-34	0285	J26-U6
J40-35	0286	J26-V2
J40-36	0287	J26-V4
J40-37	0288	J26-V6
J40-38	0289	J26-W3
J40-39	0290	J26-W5
J40-10	0291	J26-X1
J40-41	0292	J26-X3
J40-42	0293	J26-X5
J40-43	0294	J26-Y1
J40-44	0356	J27-A1
J40-45	0357	J27-A4
J40-46	0358	J27-A6
J4047	0359	J27-B2
J40-48	0360	J27-B4
J40-49	0361	J27-B6
J40-50	0362	J27-C2
J40-51	0363	J27-D2
J40-52	0035	J24-H5
J40-53	0364	J27-D4
J40-54	0365	J27-D6
J40-55	0366	J27-E5
J40-56	0367	J27-F1
J40-57	0368	J27-F3
J40-58	0369	J27-F5
J40-59	0370	J27-G2
J40-60	0371	J27-G4
J40-61	0372	J27-G6
J40-62	0373	J27-H2
J40-63	0257	J26-J4
J40-64	0374	J27-H4
J40-65	0255	J26-J1
J40-67	0375	J27-H6
J40-68	0261	J26-K4
J40-69	0259	J26-K1
J40-70	0376	J27-J2
J5-A1	1560	J2-A1
J5-A2	1561	J2-A2
J5-A3	1562	J2-A3
J5-A4	1563	J2-A4
J5-A5	1564	J2-A5
J5-A6	1565	J2-A6
J5-B1	1566	J2-A7
J5-B2	1567	J2-A8
J5-B3	1568	J2-B1
J5-B4	1569	J2-B2
J5-B5	1570	J2-B3
J5-B6	1571	J2-B4
J5-C1	1578	J2-B5
J5-C2	1581	J2-B6
J5-C2	1581	J2-B6
J5-C3	1582	J5-C2
J5-C4	1047	J21-A7
J5-C5	1049	J21-A8
J5-C6	1051	J21-B1
J5-D1	1053	J21-B2
J5-D2	1055	J21-B3
J5-D3	1057	J21-B4
J5-D4	1059	J21-B5
J5-D5	1061	J21-B6
J5-D6	1063	J21-B7
J5-E1	1065	J21-B8
J5-E2	1067	J21-Cl
J5-E3	1069	J21-C2
J5-E4	1572	J2-C7
J5-E5	1127	J3-A3
J5-E6	1128	J3-A4
J5-F1	1526	W1
J5-F2	1109	J1-S6
J5-F3	1523	W1
J5-F4	1022	J2-L3
J5-F5	1024	J2-JA
J5-F6	1110	J1-T1
J5-G1	1579	J5-C1
J5-G2	0973	J23-M2
J5-G3	0974	J23-M5
J5-G4	1111	J1-T2
J5-G5	0975	J23-M6
J5-G6	0976	J23-N1
J5-H1	0977	J23-N2
J5-H2	1112	J1-T3
J5-H3	0978	J23-T5
J5-H4	0979	J23-U4
J5-H5	0980	J23-U5
J5-H6	1113	J1-T4
J5-Jl	0981	J23-V2
J5-J2	0982	J23-X2
J5-J3	0983	J23-Y1
J5-J4	1102	J1-T6
J5-J5	0984	J23-Y5
J5-J6	0985	J23-U2
J5-K1	1207	J23-D5
J5-K2	1114	JI-U6
J5-K3	1198	J23-C4
J5-K4	1203	J23-E5

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

FROM	WIRE ID	TO
J5-K6	1103	J1-W5
J5-L1	0986	J23-M1
J5-L2	0987	J23-M4
J5-L3	0988	J23-N3
J5-L4	1115	J1-W6
J5-L5	0989	J23-Y3
J5-L6	0990	J23-Y6
J5-M1	0991	J23-Y2
J5-M2	1116	J1-X1
J5-M3	1587	J23-L3
J5-M6	1118	J1-X3
J5-N1	1547	A1E5
J5-N2	1553	J5-C4
J5-N4	1119	J1-X4
J5-P1	1223	J2-E6
J5-P2	1577	J1-C4
J5-P4	1356	A5W2
J5-R2	1260	A2Wl
J5-R6	1017	XA3-B41
J5-S1	0963	XA3-B31
J5-S3	1117	J1-X2
J5-T1	1027	XA3-A2
J5-T3	1072	J21-C3
J5-T4	1074	J21-C4
J5-T5	1076	J21-C5
J5-T6	1078	J21-C6
J5-U1	1028	XA3-B1
J5-U2	1030	XA3-B2
J5-U3	1032	XA3-B3
J5-U4	1034	XA3-B4
J5-U5	1036	XA3-B5
J5-U6	1038	XA3-B6
J5-V1	1040	XA3-B7
J5-V2	1042	XA3-B8
J5-V3	1162	A4W1
J5-V4	1161	A4E5
J5-V5	1159	A4E1
J5-V6	1160	A4E3
J5-W1	1101	J1-S4
J5-W5	1573	J2-B8
J5-W6	1574	J2-Cl
J5-X3	1188	J23-L4
J5-X3	1189	J23-L5
J5-X3	1190	J23-L6
J5-X4	1524	W1
J5-X5	1018	XA3-A23
J5-Y4	1044	XA3-A10
J5-Z1	1107	A1E5
J5-Z1	1106	J5-K6
J5-Z2	1545	J5-C4
J5-CI	1579	J5-G1
J5-C2	1582	J5-C3
J5-C4	1529	J2-E7
J5-C4	1553	J5-N2
J5-C6	1530	J2-E7
J5-C6	1531	J2-F1
J5-D2	1532	J2-F1
J5-D2	1533	J2-F7
J5-D4	1534	J2-F7
J5-D4	1535	J2-G1
J5-D6	1537	J2-G7
J5-D6	1538	J2-H1
J5-E2	1539	J2-H1
J5-E2	1540	J2-H7
J5-Jl	1542	J5-T3
J5-J4	1105	J5-K6
J5-J4	1104	J5-W1

FROM	WIRE ID	TO
J5-K6	1106	J5-Z1
J5-K6	1105	J5-J4
J5-T3	1541	J2-H7
J5-T3	1542	J5-J1
J5-T5	1544	J2-L2
J5-T5	1543	J2-J1
J5-T5	1546	J21-C7
J5-T5	1545	J5-Z2
J5-W1	1104	J5-J4
J6-Al	1235	J21-D4
J6-A2	1023	J2-L3
J6-A3	1025	J2-L4
J6-A6	0999	XA3-B40
J6-B2	1201	J2-D1
J6-B4	0997	XA3-A38
J6-C2	0996	XA3-B36
J6D4	0994	XA3-B34
J6-E6	1007	XA3-B27
J6-F4	1008	XA3-B26
J6-02	1003	XA3-B25
J6-06	1004	XA3-A31
J6-H4	1006	XA3-A29
J6-J2	1002	XA3-A18
J6-J4	1262	A2W3
J6-J6	1005	XA3-A30
J6-K4	1146	A4E9
J6-L2	1011	XA3-A24
J6-L6	1148	A4E7
J6-M4	1010	XA3-A22
J6-N2	1009	XA3-A21
J6-N6	1000	XA3-A19
J6-P2	1588	A2W2
J6-P3	1125	J1-U4
J6-P4	1126	J1-U5
J6-P6	1589	A1K1-A1
J6-R1	1001	XA3-A20
J6-R2	1121	J1-W1
J6-R6	1122	J1-W2
J6-S4	1123	J1-W3
J6-T2	1124	J1-W4
J6-T6	1149	A4E13
J6-U1	1145	A4E6
J6-U2	1143	A4E2
J6-U3	1144	A4E4
J6-U4	0993	XA3-B32
J6-V2	1355	A5W1
J6-V6	1147	A4E10
J6-W1	1261	A2W4
J6-W3	1264	A2W3
J6-X1	1371	A1W2
J6-X5	1263	A2W1
J6-Z1	1108	A1E5
J6-/C2	0995	XA3-B35
J6-/C6	0998	XA3-A39
J6-W1	1277	J1-V1
J6-W1	1276	J1-Y6
J6-W3	1278	J1-V1
J6-W3	1279	J1O-N2
J7-A	0890	J7-D
J7-A	0891	J7-E
J7-D	0890	J7-A
J7-E	0891	J7-A
J8-A7	0892	J8-A8
J8-A8	0892	J8-A7

FROM	WIRE ID	TO
J8-B1	0900	J8-D7
J8-C7	0893	J8-C8
J8-C8	0893	J8-C7
J8-D7	0900	J8-B1
J8-D7	0899	J8-D8
J8-D8	0899	J8-D7
J8-F7	0895	J8-F8
J8-F8	0895	J8-F7
J8-H7	0894	J8-H8
J8-H8	0894	J8-H7
J8-K3	0898	J8-K4
J8-K4	0898	J8-K3
J8-L3	0897	J8-L4
J8-L4	0897	J8-L3
J8-M3	0896	J8-M4
J8-M4	0896	J8-M3
J9-1	0859	J9-2
J9-2	0859	J9-1
J9-3	0860	J9-4
J9-4	0860	J9-3
J9-5	0861	J9-6
J9-6	0861	J9-5
J9-7	0862	J9-8
J9-8	0862	J9-7
J9-9	0863	J9-10
J9-10	0863	J9-9
J9-11	0864	J9-12
J9-12	0864	J9-11
J9-13	0865	J9-14
J9-14	0865	J9-13
J9-15	0866	J9-16
J9-16	0866	J9-15
J9-17	0867	J9-18
J9-18	0867	J9-17
J9-19	0868	J9-20
J9-20	0868	J9-19
J9-21	0869	J9-23
J9-23	0869	J9-21
J9-24	0870	J9-25
J9-25	0870	J9-24
J9-26	0871	J9-27
J9-27	0871	J9-26
J9-28	0872	J9-29
J9-29	0872	J9-28
J9-30	0873	J9-31
J9-31	0873	J9-30
J9-32	0874	J9-33
J9-33	0874	J9-32
J9-34	0875	J9-35
J9-35	0875	J9-34
J9-36	0876	J9-37
J9-37	0876	J9-36
J9-38	0877	J9-39
J9-39	0877	J9-38
J9-40	0878	J9-41
J9-41	0878	J9-40
J942	0879	J9-43
J943	0879	J9-42
J944	0880	J9-48
J9-48	0880	J9-44
J9-49	0881	J9-50
J9-50	0881	J9-49
J9-51	0882	J9-52
J9-52	0882	J9-51
J9-53	0883	J9-54
J9-54	0883	J9-53

FROM	WIRE ID	TO
J9-55	0884	J9-56
J9-56	0884	J9-55
W1	1527	J2-D7
W1	1528	J2-D8
W1	1521	J2-E1
W1	1522	J2-E2
W1	1511	J21-A1
W1	1512	J21-A2
W1	1513	J21-A3
W1	1514	J21-A4
W1	1515	J23-E1
W1	1516	J23-E2
W1	1517	J23-E3
W1	1518	J23-E4
W1	1519	J23-L2
W1	1520	J23-L3
W1	1526	J5-F1
W1	1523	J5-F3
W1	1524	J5-X4
W1	1525	XA3-B11
XA3-A2	1027	J5-T1
XA3-B1	1029	J2-J7
XA3-B1	1028	J5-U1
XA3-B2	1031	J2-J8
XA3-B2	1030	J5-U2
XA3-B3	1033	J2-K1
XA3-B3	1032	J5-U3
XA3-B4	1035	J2-K2
XA3-B4	1034	J5-U4
XA3-B5	1037	J2-K3
XA3-B5	1036	J5-U5
XA3-B6	1039	J2-K4
XA3-B6	1038	J5-U6
XA3-B7	1041	J2-K5
XA3-B7	1040	J5-V1
XA3-B8	1043	J2-K6
XA3-B8	1042	J5-V2
XA3-A10	1045	J2-K7
XA3-A10	1044	J5-Y4
XA3-A11	0968	J12-B4
XA3-A12	0970	A1W1
XA3-A13	0904	J1O-S1
XA3-A14	0906	J1O-S5
XA3-A15	0905	J1O-S2
XA3-A16	0907	J1O-S4
XA3-A18	1002	J6-J2
XA3-A19	1000	J6-N6
XA3-A20	1001	J6-R1
XA3-A21	1009	J6-N2
XA3-A22	1010	J6-M4
XA3-A23	1018	J5-X5
XA3-A24	1011	J6-L2
XA3-A25	0943	J1-R5
XA3-A25	0942	J1O-D5
XA3-A26	0953	J1-R4
XA3-A26	0952	J1O-E5
XA3-A27	0951	J1-R3
XA3-A27	0950	J1O-E1
XA3-A29	1006	J6-H4
XA3-A30	1005	J6-J6
XA3-A31	1004	J6-06
XA3-A32	0955	J1-M3
XA3-A34	0910	J1-Rl
XA3-A34	0909	J1O-B4
XA3-A35	0912	J1-R2

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

FROM WIRE ID	TO
XA3-A35 0911	J1O-D1
XA3-A36 0914	J1-P5
XA3-A36 0913	J1O-D2
XA3-A38 0997	J6-B4
XA3-A40 0920	J1-P3
XA3-A40 0919	J1O-B1
XA3-A43 0964	J1-/C2
XA3-A48 0935	J1O-E6
XA3-B1O 0967	J12-V1
XA3-B11 1525	W1
XA3-B12 0971	A1W1
XA3-17 0956	J1-52
XA3-B18 0922	J1-V5
XA3-B18 0921	J1O-B3
XA3-B19 0924	J1-V6
XA3-B19 0923	J1O-B2
XA3-B20 0926	J1-V4
XA3-B20 0925	J1O-C4
XA3-B21 0928	J1-V3
XA3-B21 0927	J10-B6
XA3-B22 0954	J10-X6
XA3-B23 0930	J1-S5
XA3-B23 0929	J10-K2
XA3-B25 1003	J6-G2
XA3-B26 1008	J6-F4
XA3-B27 1007	J6-E6
XA3-B28 0949	J1-S1
XA3-B28 0948	J10-F1
XA3-B29 0947	J1-S3
XA3-B29 0946	J10-D3
XA3-B30 0945	J1-R6
XA3-B30 0944	J00-D6
XA3-B31 0962	J10-X1
XA3-B31 0963	J5-S1
XA3-B32 0908	J10-E4
XA3-B32 0993	J6-U4
XA3-B33 0959	J1-/C1
XA3-B33 0958	J10-W6
XA3-B34 0994	J6-D4
XA3-B35 0995	J6-/C2
XA3-B36 0996	J6-C²
XA3-B37 0916	J1-P4
XA3-B37 0915	J1O-B5
XA3-B38 0918	J1-P6
XA3-B38 09I7	J10-A6
XA3-B39 1585	J6-1C6
XA3-B40 0999	J6-A6
XA3-B41 0938	J10-W5
XA3-B41 1017	J5-R6
XA3-B42 0937	J10-X2
XA3-B43 0966	A4E11
XA3-B48 0936	J10-K6
XA3-A21 1012	XA3-A22
XA3-A22 1012	XA3-A21
XA3-A22 1013	XA3-A24
XA3-A23 1019	A2E9
XA3-A24 1014	A4E16
XA3-A24 1013	XA3-A22

FROM WIRE ID	TO

FROM WIRE ID	TO

FROM WIRE ID	TO

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Chief of Staff

Official:

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ATTN: SP4 John Doe
Key West, FL 33040

DATE SENT
14 January 1979

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 9-1430-550-34-1	7 Sep 72	Unit of Radar Set AN/MPQ-50 Tested at the HFC

BE EXACT PIN-POINT WHERE IT IS

PAGE NO	PARAGRAPH	FIGURE NO	TABLE NO
9-19		9-5	
21-2	step 1C		21-2

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

"B" Ready Relay K11 is shown with two #9 contacts. That contact which is wired to pin 8 of relay K16 should be changed to contact #10.

Reads: Multimeter B indicates 600 K ohms to 9000 K ohms.

Change to read: Multimeter B indicates 600 K ohms minimum.

Reason: Circuit being checked could measure infinity. Multimeter can read above 9000 K ohms and still be correct.

NOTE TO THE READER:

Your comments will go directly to the writer responsible for this manual, and he will prepare the reply that is returned to you. To help him in his evaluation of your recommendations, please explain the reason for each of your recommendations, unless the reason is obvious.

All comments will be appreciated, and will be given immediate attention. Handwritten comments are acceptable.

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SAMPLE

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SP4 John Doe, Autovon 222-222

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