

**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**

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

WARNING AND FIRST AID



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.



A FALLING HEAVY OBJECT CAN CAUSE SERIOUS INJURY TO PERSONNEL.



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.



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.



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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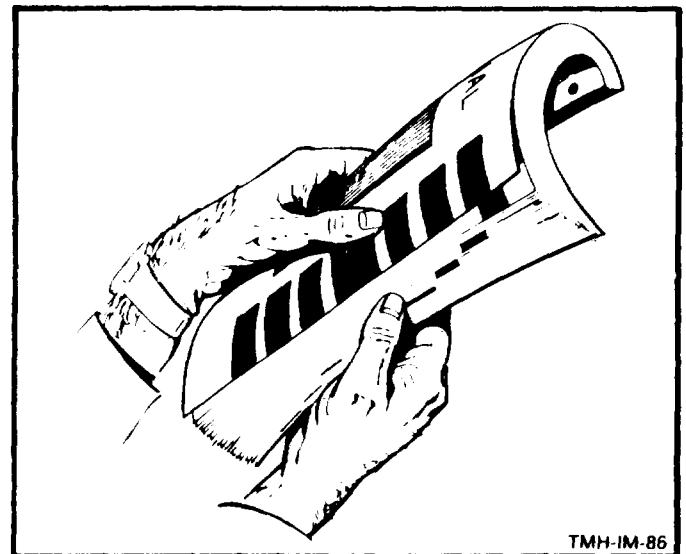
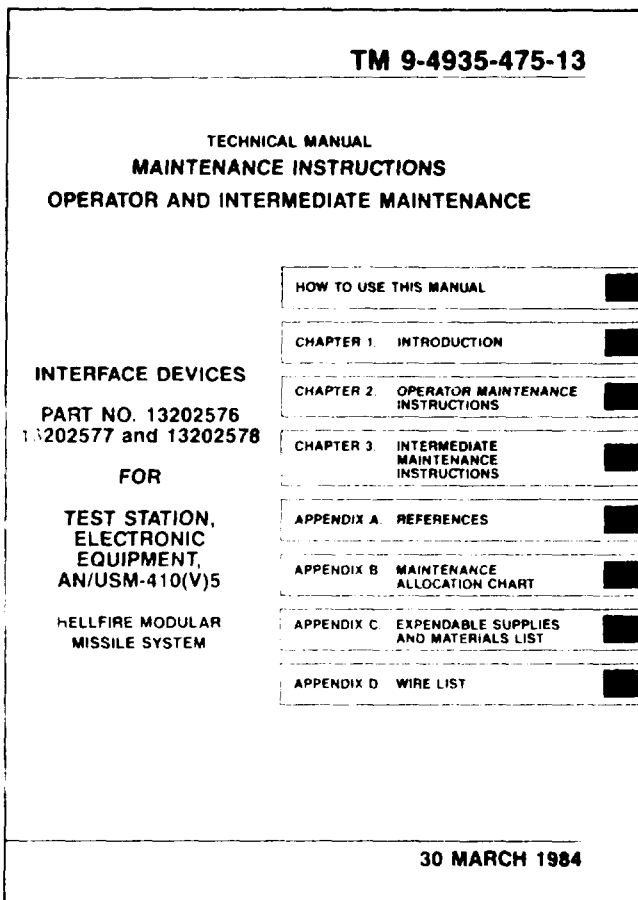
HOW TO USE THIS MANUAL

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.

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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.

00. TASK TITLE

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

INITIAL SETUP

| | |
|---|--|
| <p>(A) Applicable Configuration All</p> | <p>(D) Personnel Required One MOS 68J10</p> |
| <p>(B) Tools and Test Equipment Allen wrench 5/64 inch Wrench, box and open end 3/16 inch Wire (2510)</p> | <p>(E) Equipment Condition Para. Condition Description 3.5 Component removed</p> |
| <p>(C) Material Parts (Item Nos. See Appendix B) Zinc chromate primer (Item 22) Safety wire (Item 23)</p> | <p>(F) General Safety Instructions None</p> |

SAMPLE PAGE

TM 9-4935-475-13

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

Purpose of Equipment: Provides interface capabilities 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.

| <u>Common Name</u> | <u>Official Nomenclature</u> |
|---------------------------|--|
| 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:**

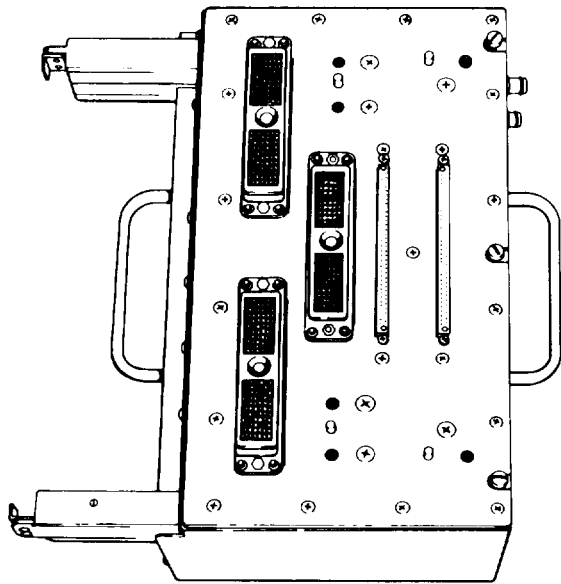
- Used with Test Station, Electronic Equipment, AN/USM-410(V)5 to provide for Test and Fault Isolation Capability of Interface Devices (self test), HMMS Launcher, and Launcher Components.

Capabilities and Features:

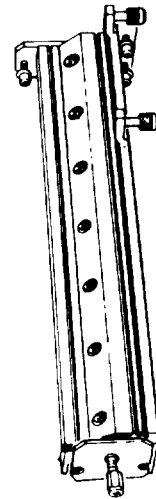
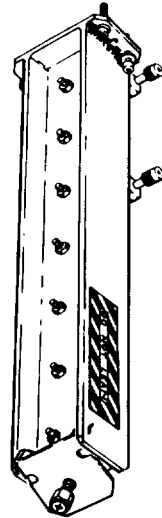
- Transmits stimuli to and responses from the unit under test.
- Adapts unit under test to test set and provides load for testing.

1-9. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

a. PIU Adapter:



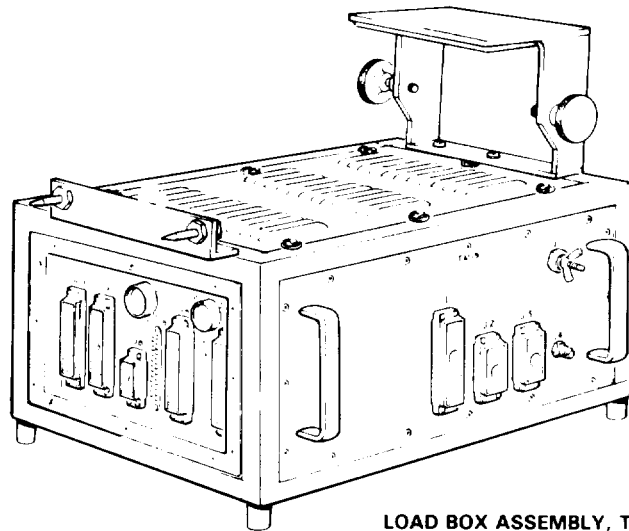
**ADAPTER ASSEMBLY,
TA113**



SUPPORT GUIDE ASSEMBLIES

ID-100

b. Loadbox Assembly:

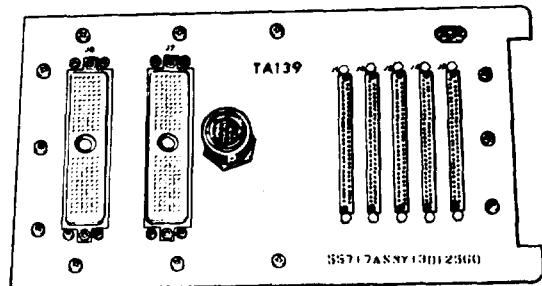


LOAD BOX ASSEMBLY, TA119

ID-101

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

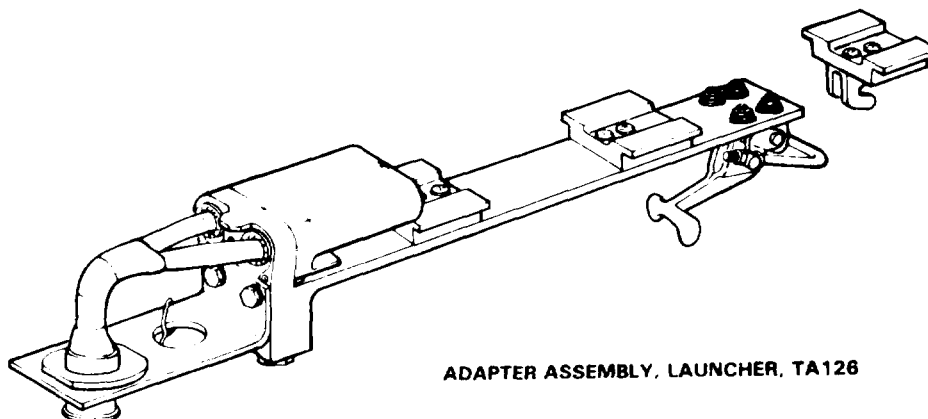
c. AFT Adapter Assembly:



AFT ADAPTER ASSEMBLY, TA139

ID-102

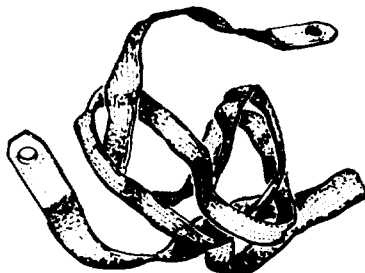
d. Rail Adapter:



ADAPTER ASSEMBLY, LAUNCHER, TA126

ID-103

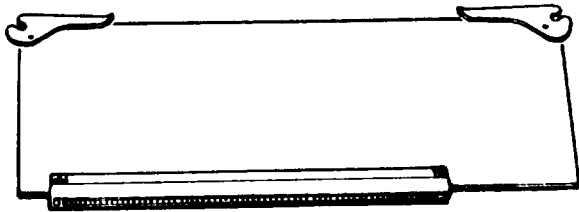
e. Ground Strap:



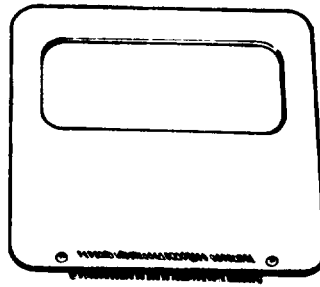
GROUND STRAP, W-1

ID-104

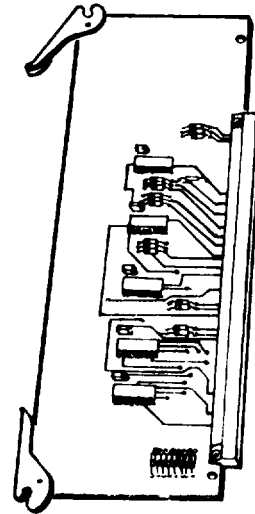
1-9. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (Cont)



**CIRCUIT CARD ASSEMBLY,
SHORTING, TA130**



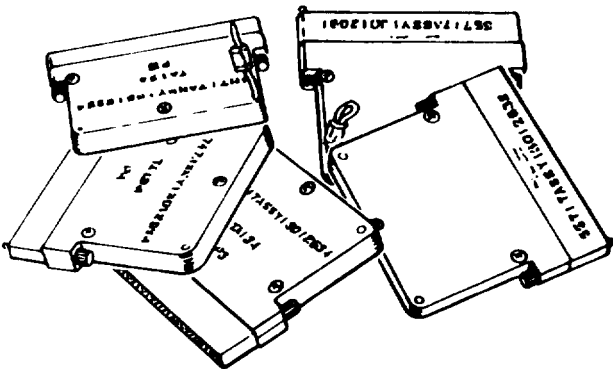
**CIRCUIT CARD ASSEMBLY,
SHORTING TA129/TA140
(TYPICAL)**



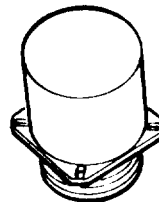
**CIRCUIT CARD ASSEMBLY,
CONDITIONER MUX SIGNAL, TA-135**

g. Shorting Plugs:

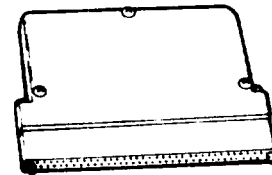
ID-105



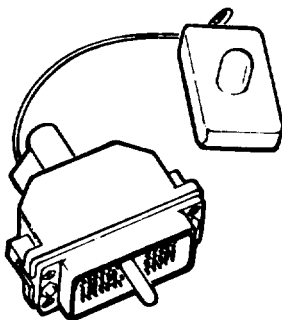
**SHORTING PLUG, TA120/TA134
(TYPICAL)**



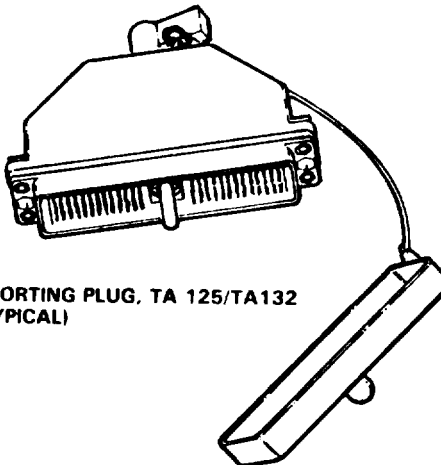
**SHORTING PLUG, TA121/TA122
(TYPICAL)**



SHORTING PLUG, TA123



SHORTING PLUG, TA124



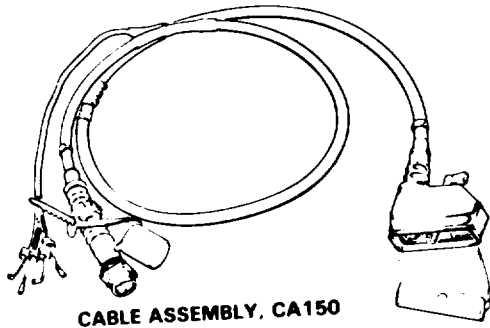
**SHORTING PLUG, TA 125/TA132
(TYPICAL)**



SHORTING PLUG, TA133

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

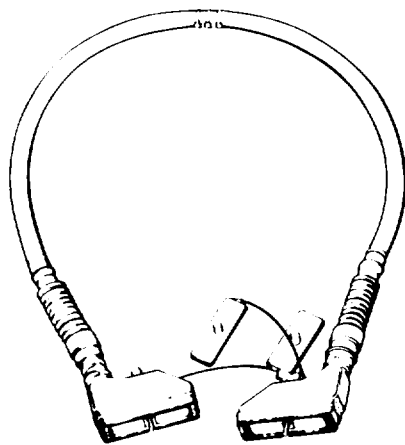
h. Cable Assemblies:



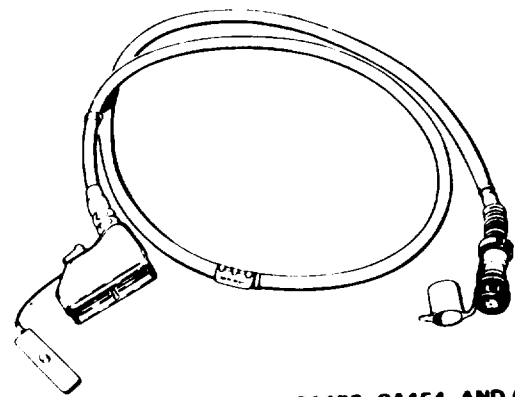
CABLE ASSEMBLY, CA150



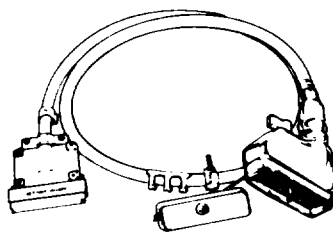
CABLE ASSEMBLY, CA151



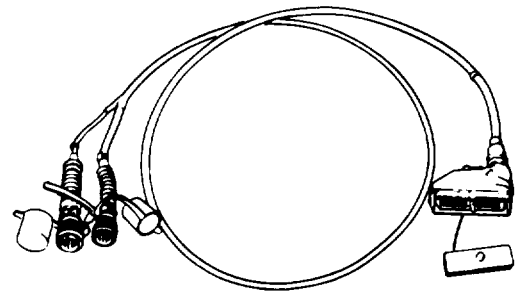
CABLE ASSEMBLY, CA152



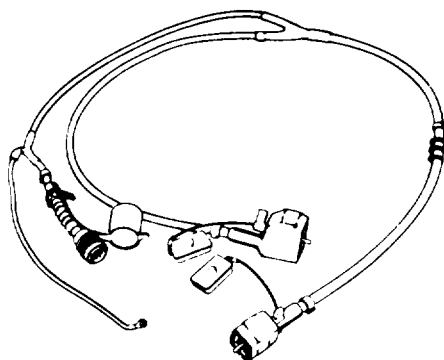
CABLE ASSEMBLY, CA153, CA154, AND CA155 (TYPICAL)



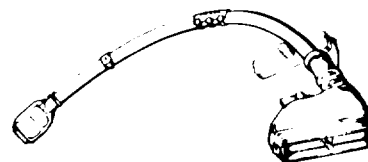
CABLE ASSEMBLY, CA156



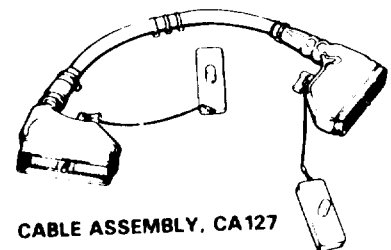
CABLE ASSEMBLY, CA157



CABLE ASSEMBLY, CA158



CABLE ASSEMBLY, CA128



CABLE ASSEMBLY, CA127

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.

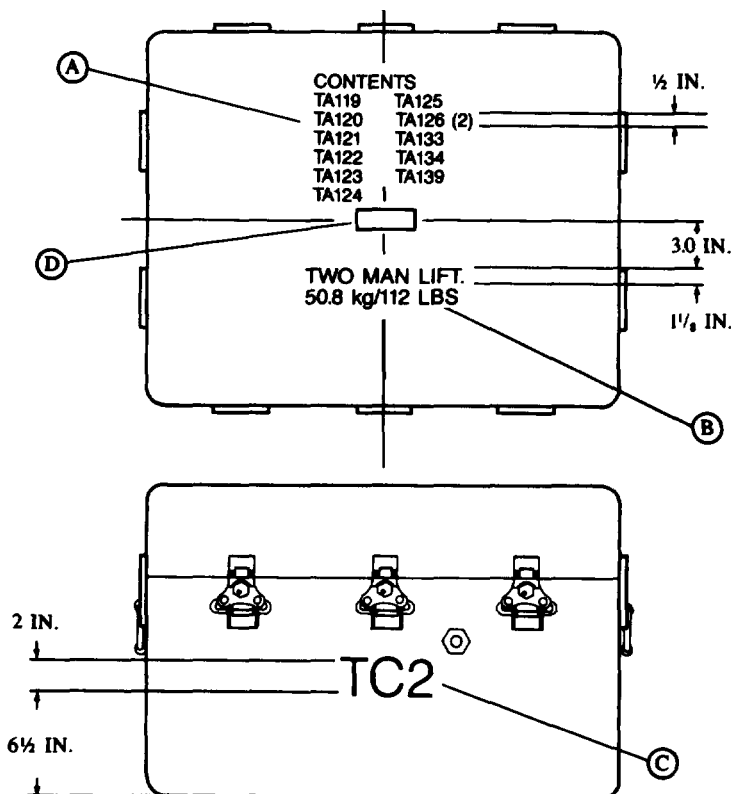
2-5. INSPECTION OF INTERFACE DEVICES AND CONTAINERS

| 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 fixture | |
| 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 channels | 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 INDEX

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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

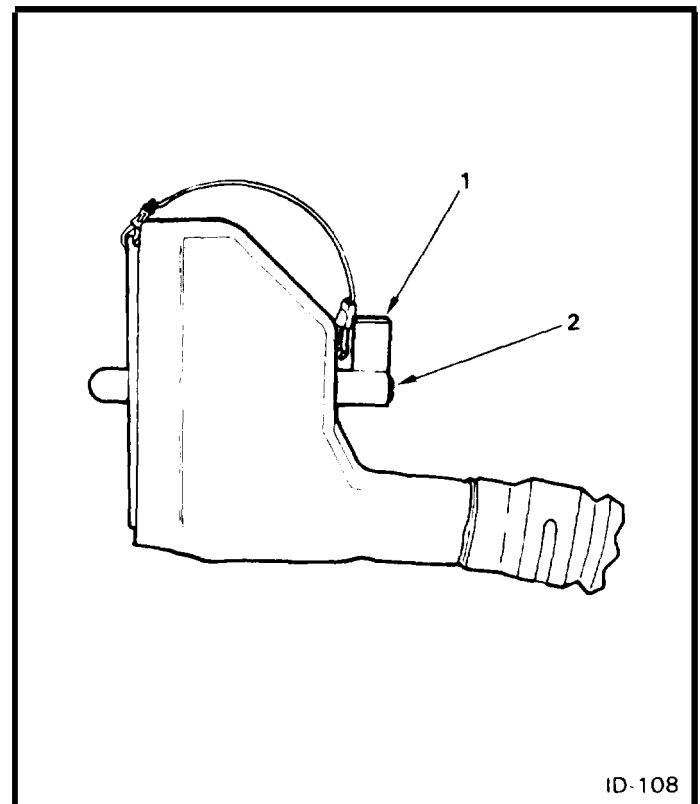
Personnel Required

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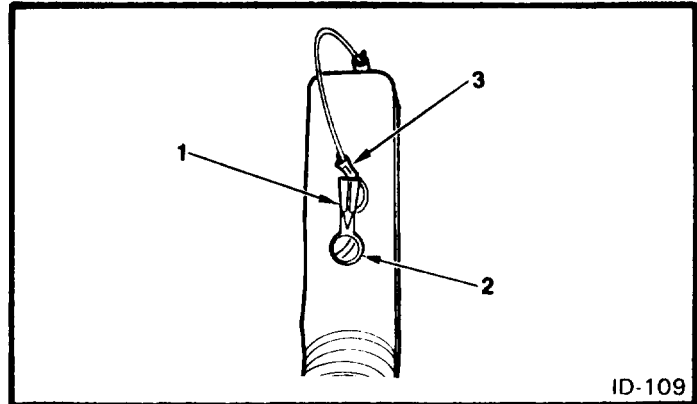
3-6. REMOVE/INSTALL CABLE ASSEMBLY OR SHORTING PLUG ACTUATING HANDLE (Cont)

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/INSTALL 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).

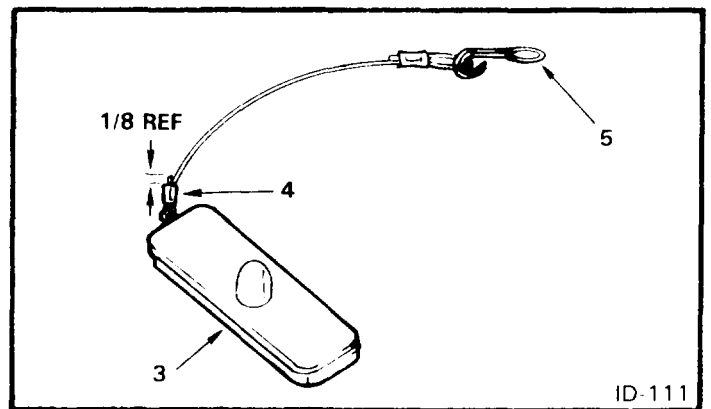
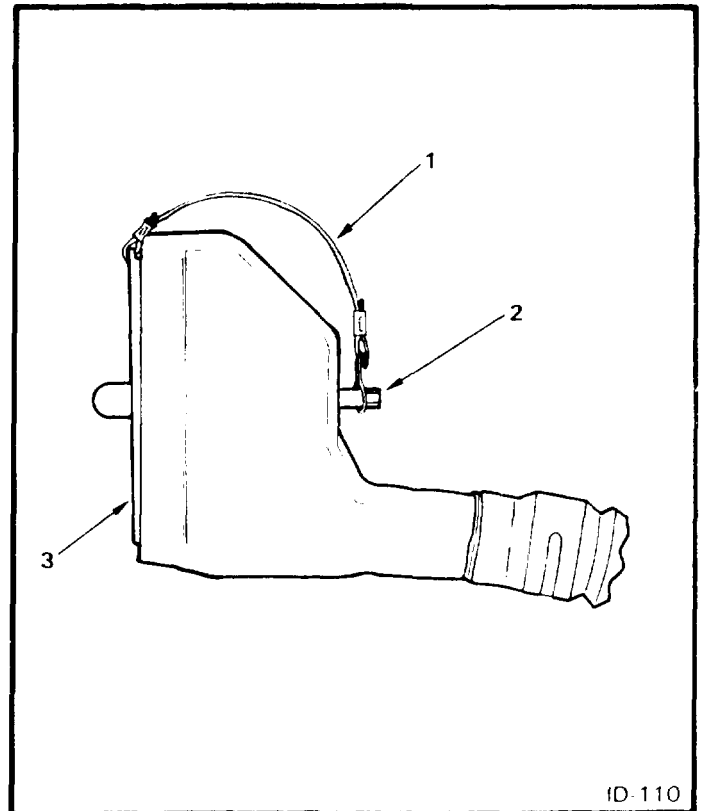
INSTALLATION

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

NOTE

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

- 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

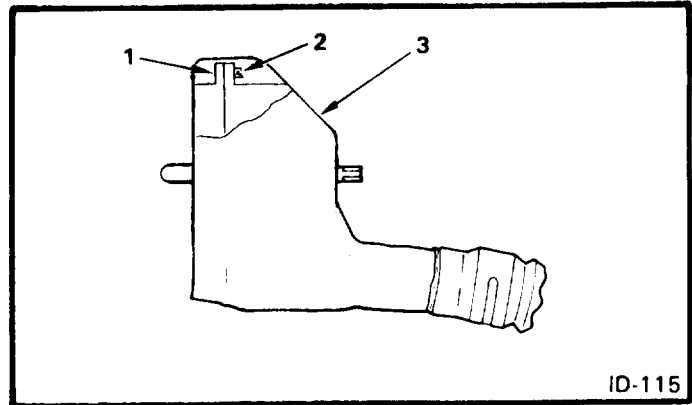
Para. Condition Description

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).

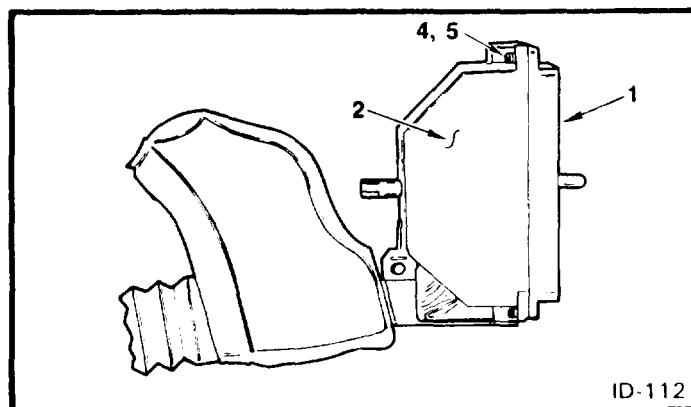


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3-8. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG CA150 P1, CA152 P1/P2, CA153 P2, CA154 P2, CA155 P2, CA156 P1, CA157 P3, CA158 P2/P3, TA127 P1/P2 OR TA128 P1 (Cont)

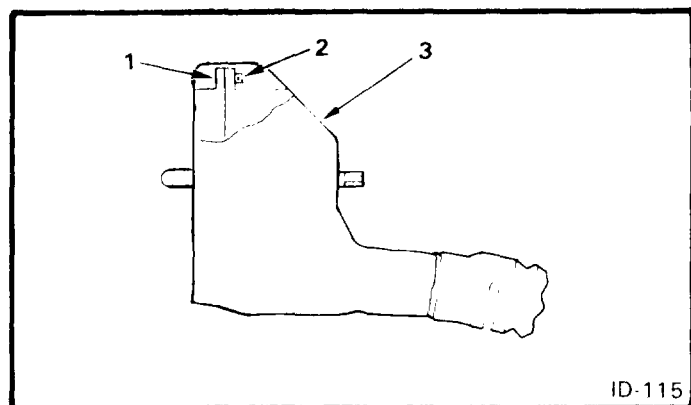
- b. Remove four screws (4) and four nuts (5).
- c. Pull connector plug from connector (1) shell (2) to gain access to contacts.

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

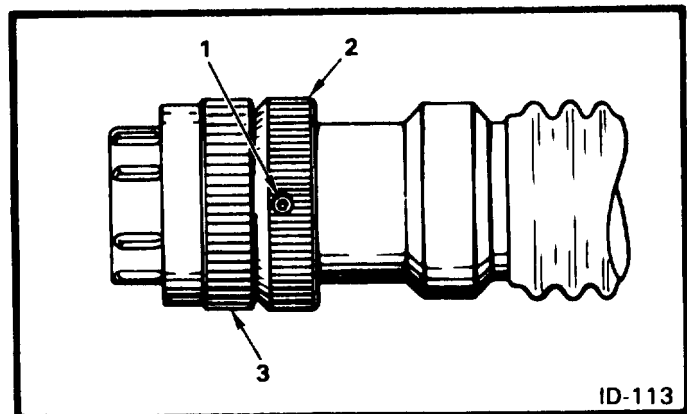
One MOS 35C10

REMOVAL

NOTE

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

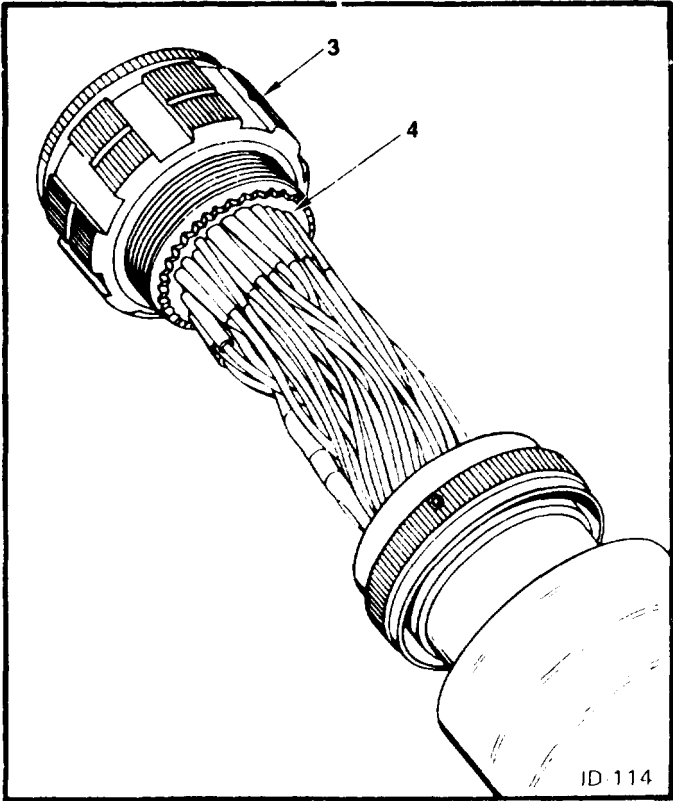
1. **LOOSEN SETSCREW** (1) on adapter (2).
2. **UNSCREW ADAPTER** (2) from connector plug (3).



GO TO NEXT PAGE

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.

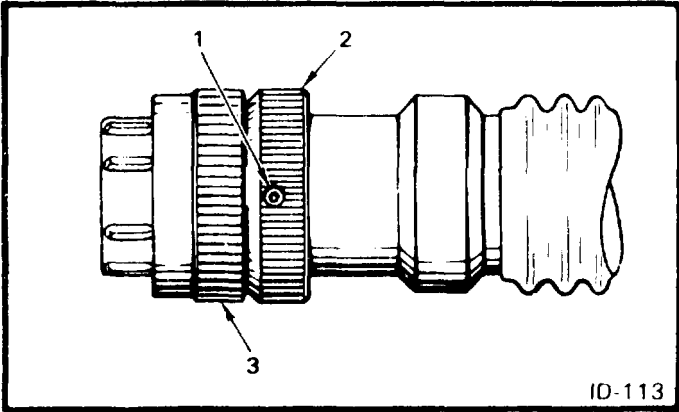


INSTALLATION

- 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

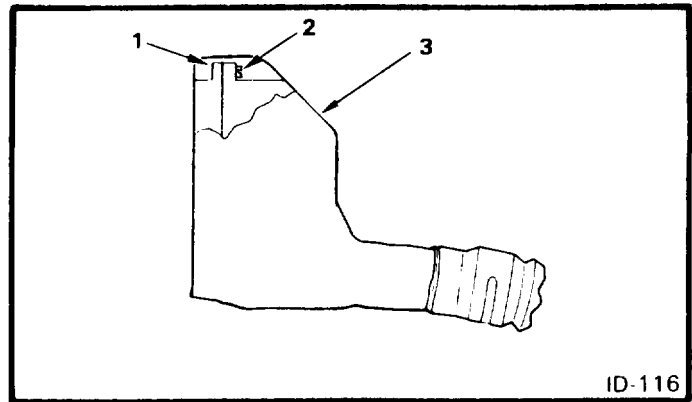
Personnel Required

One MOS 35C10

REMOVAL

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

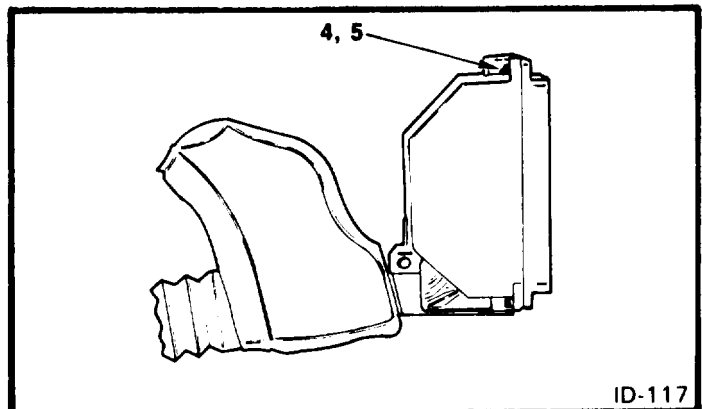
a. Roll back protective boot (3).



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.

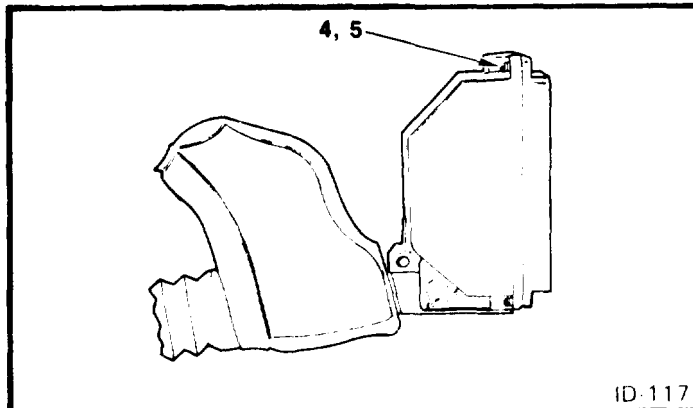


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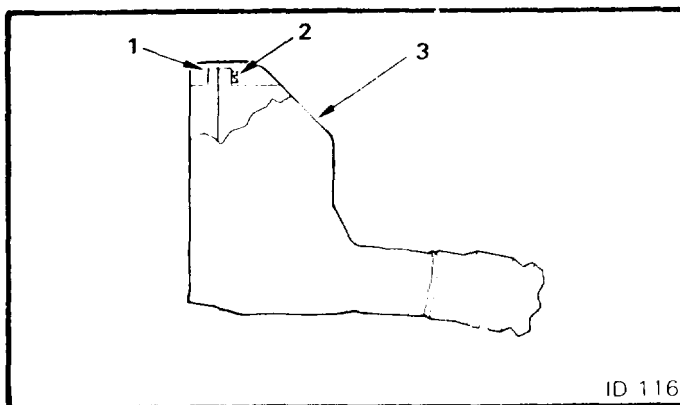
3-10. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG TA128 P2 (Cont)

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.



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ID 116

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
 Installation/Removal tool
 Positioner

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

Identification Labels (Item 1)
 Connector plug

Personnel Required

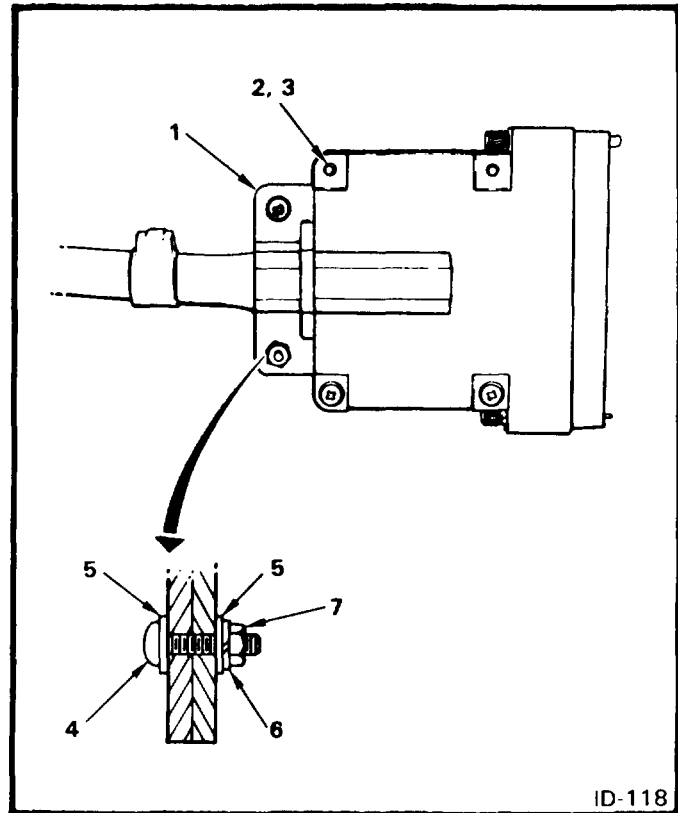
One MOS 35C10

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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.



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INSTALLATION

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

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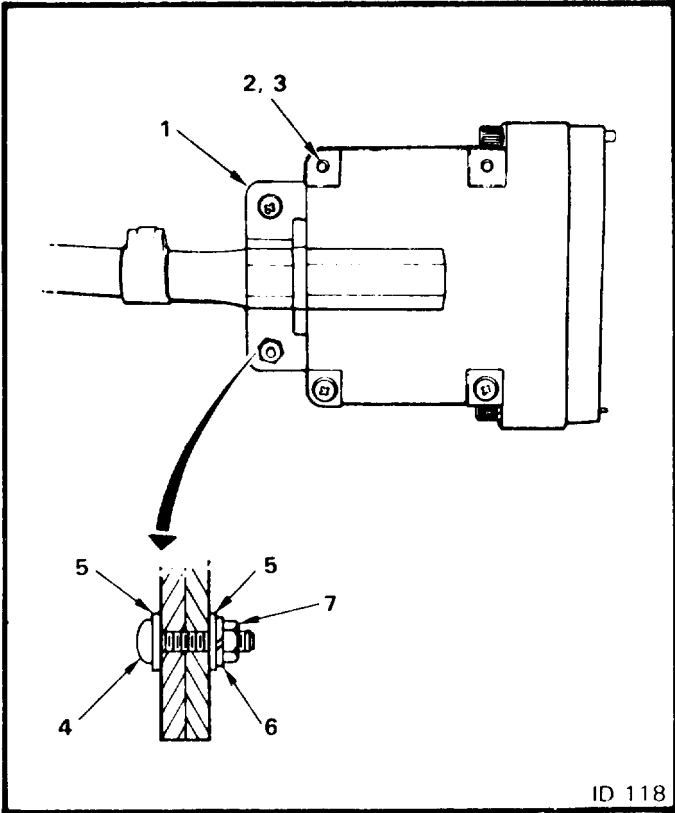
3-11. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR PLUG TA156 P2 (cont)

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)

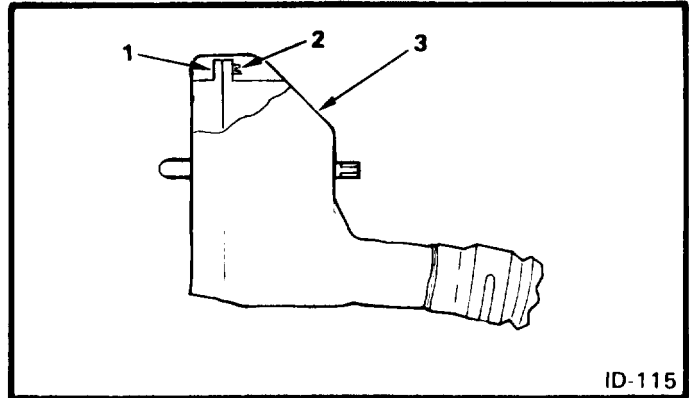
REMOVAL

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).

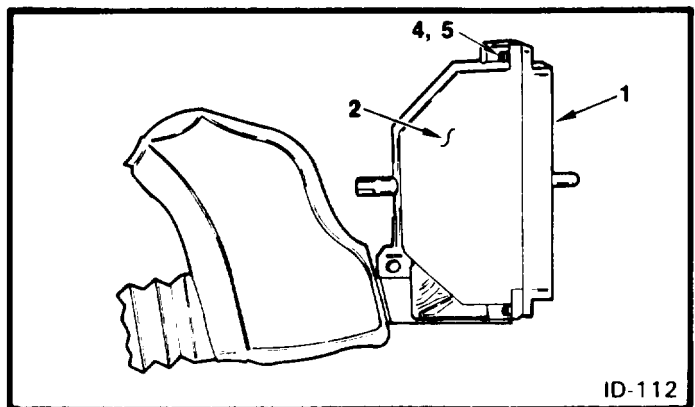


- b. Remove four screws (4) and four nuts (5).

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

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

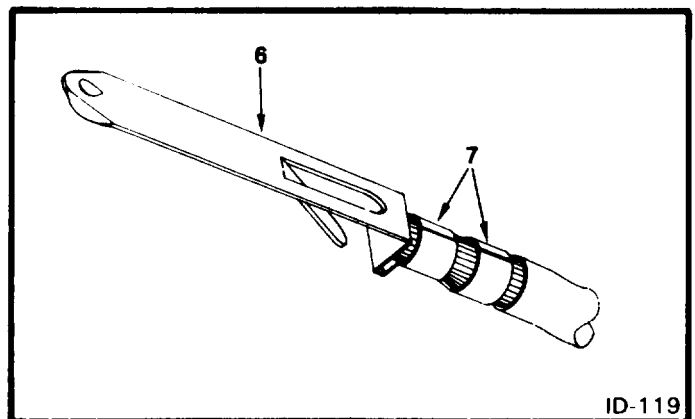
3. REMOVE CONTACT FROM WIRE.



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.



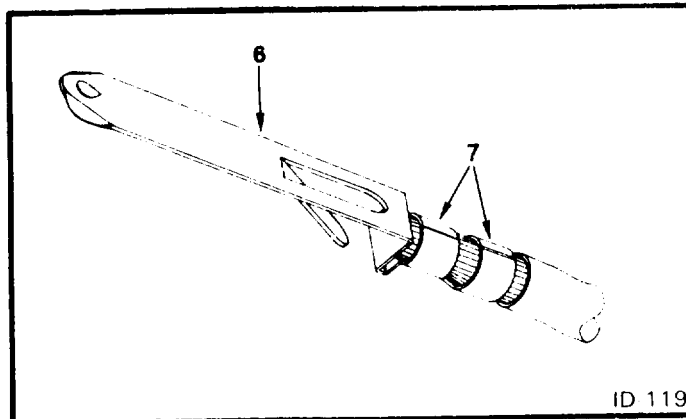
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3-12. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR CONTACT(S) CA150 P1, CA152 P1/P2, CA153 P2, CA154 P2, CA155 P2, CA156 P1, CA157 P3, CA158 P2/P3, TA127 P1/P2 OR TA128 P1/P2 (Cont)

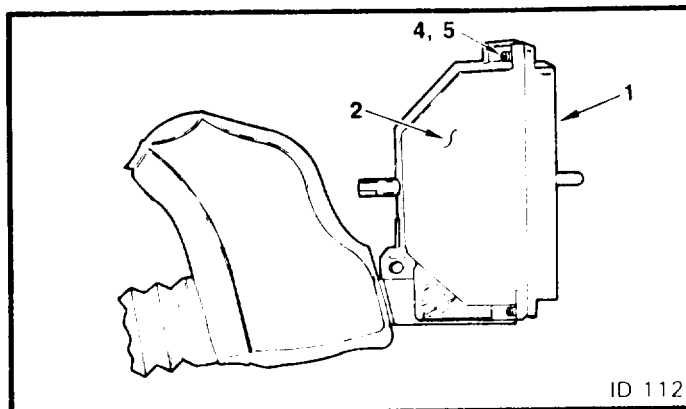
INSTALLATION

1. INSTALL CONTACT (6) ON WIRE.

- a. Twist wire end.
- b. Position contact (6) on wire and crimp locking tabs (7).

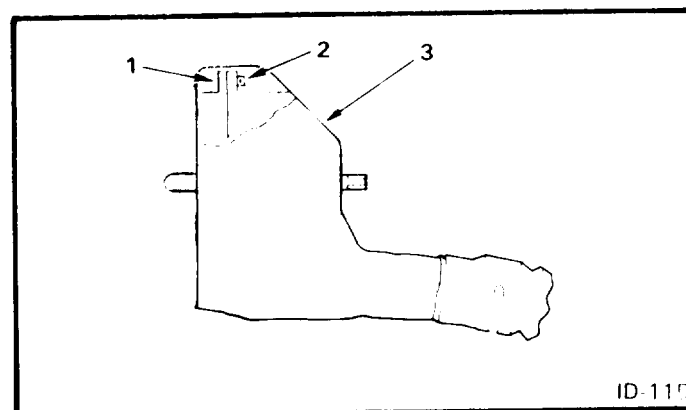


2. INSTALL CONTACT(S) (6) IN CONNECTOR (1).



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

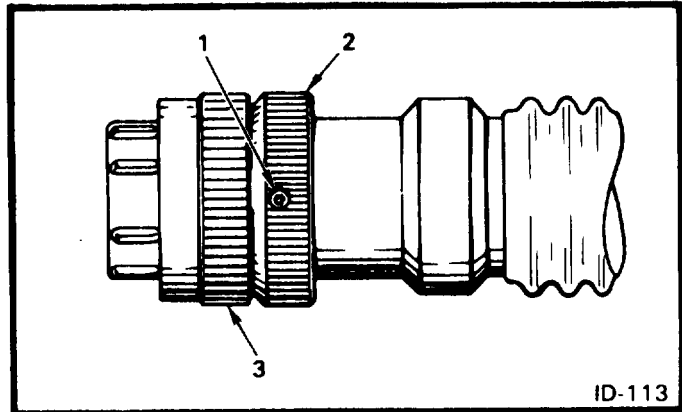
One MOS 35C10

REMOVAL

NOTE

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

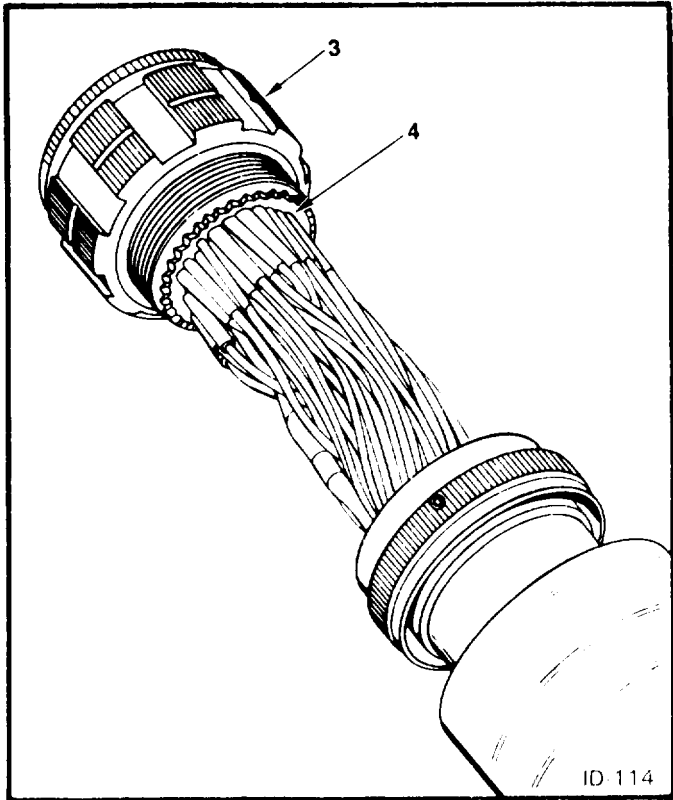
- 1. LOOSEN SETSCREW (1) ON ADAPTER (2).**
- 2. UNSCREW ADAPTER (2) from connector plug (3).**



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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.



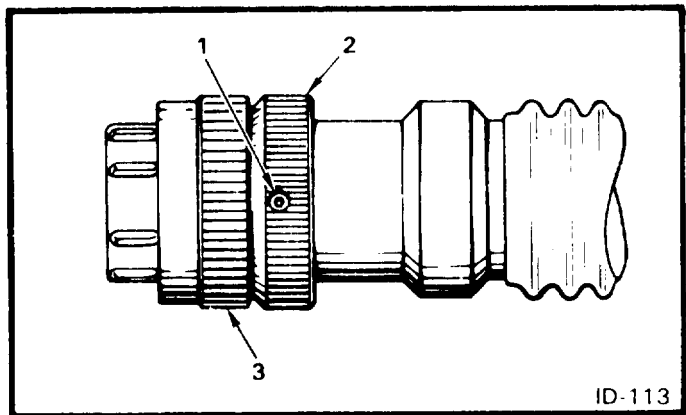
INSTALLATION

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, 1/4-inch
- Positioner
- Installation/Removal tool
- Pliers diagonal cut
- Crimping tool

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

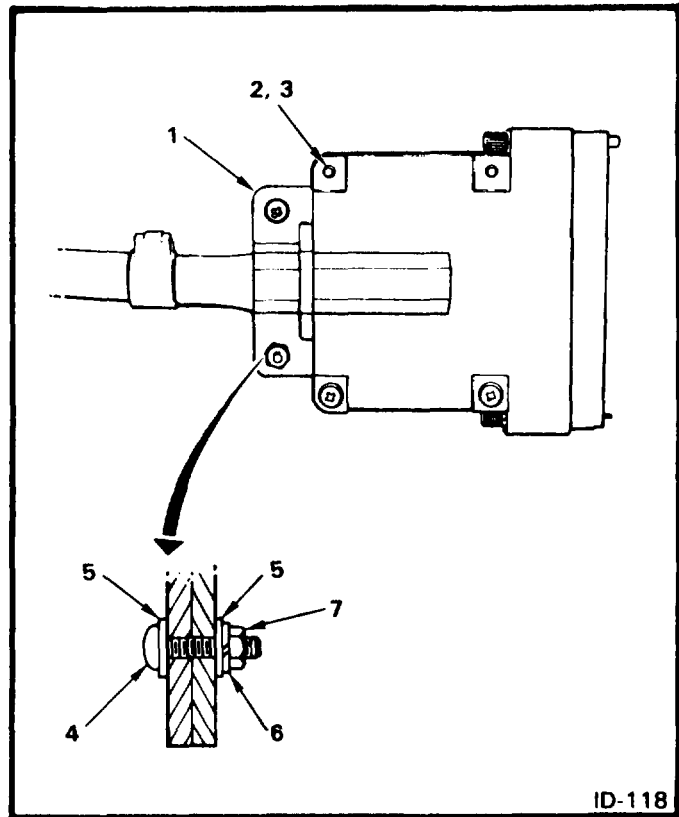
Contact(s)

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.



ID-118

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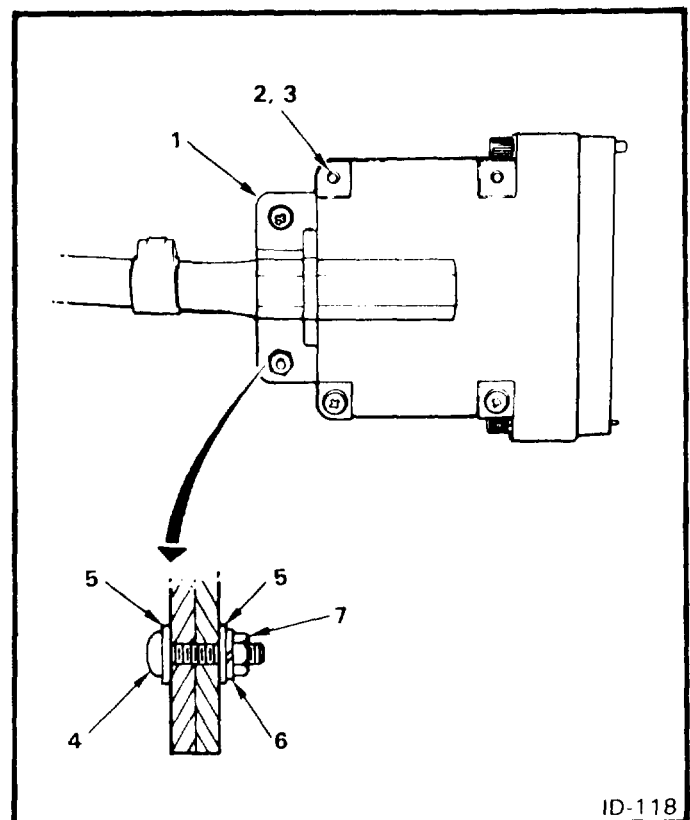
3-14. REMOVE/INSTALL CABLE ASSEMBLY CONNECTOR CONTACT(S), CA156 P2 (Cont)
INSTALLATION
1. INSTALL CONTACT ON WIRE.

- 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 BACKSHELL 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.



ID-118

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

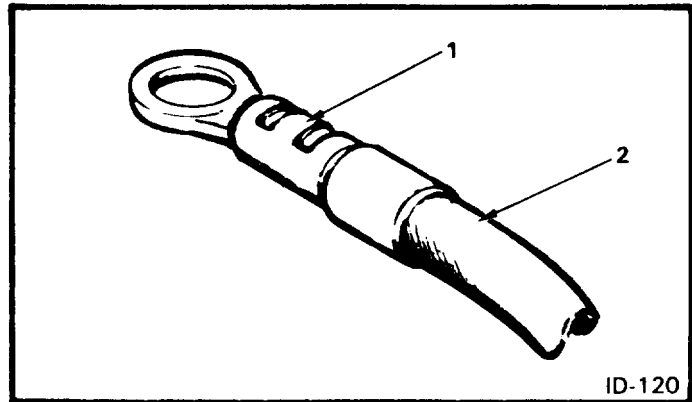
One MOS 35C10

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)

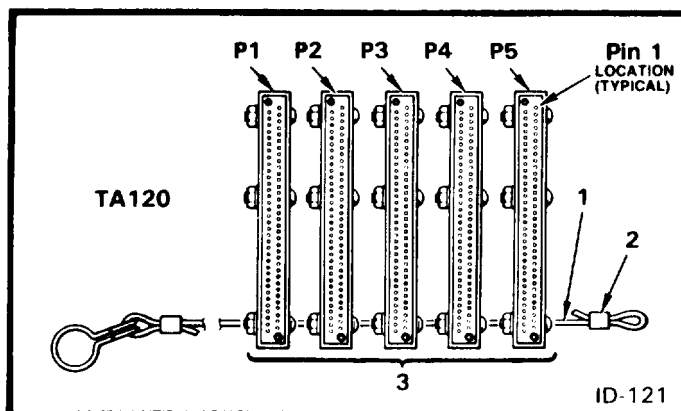
- Shorting plug
- Lanyard
- Ferrule

Personnel Required

One MOS 35C10

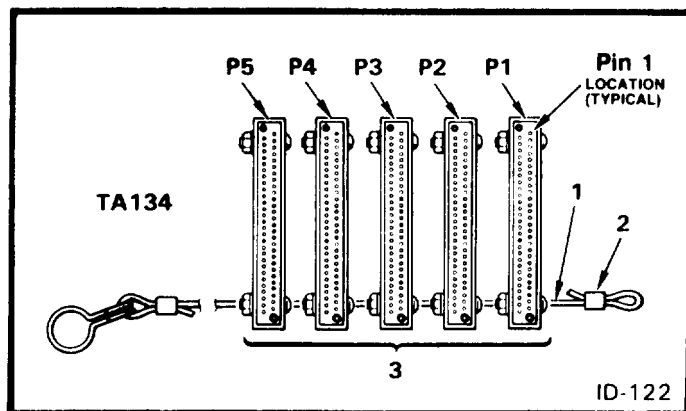
REMOVAL

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

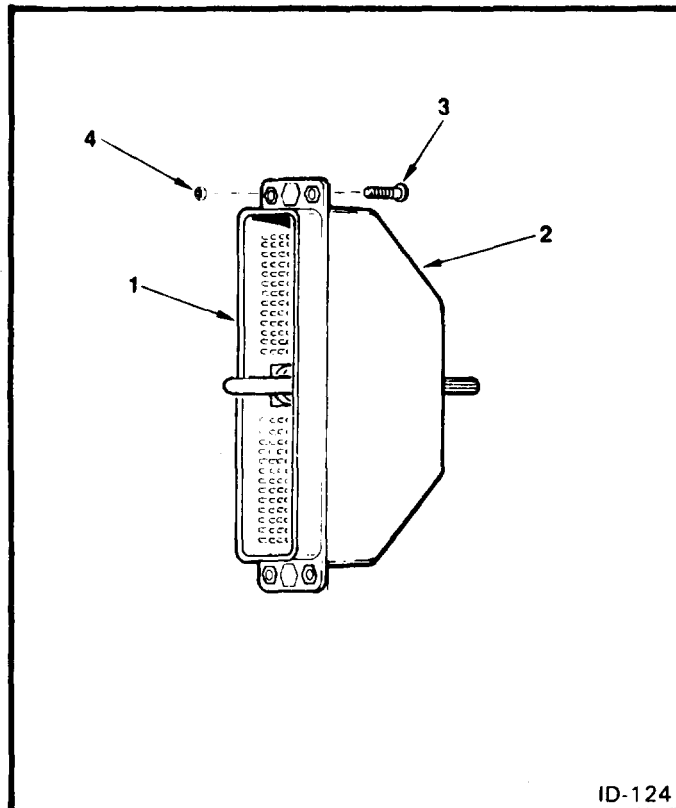
Para Condition Description

- 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).

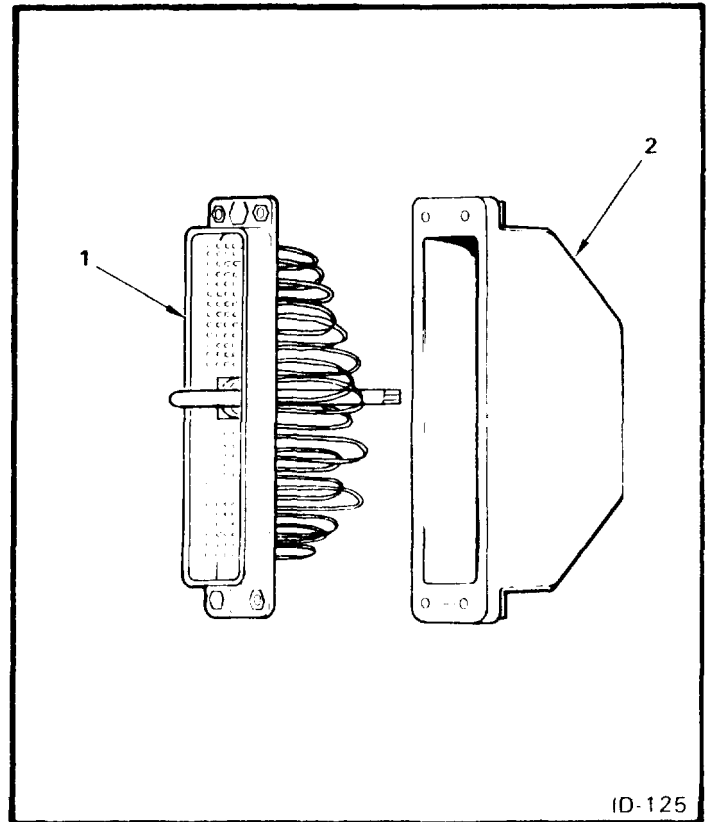
NOTE

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.



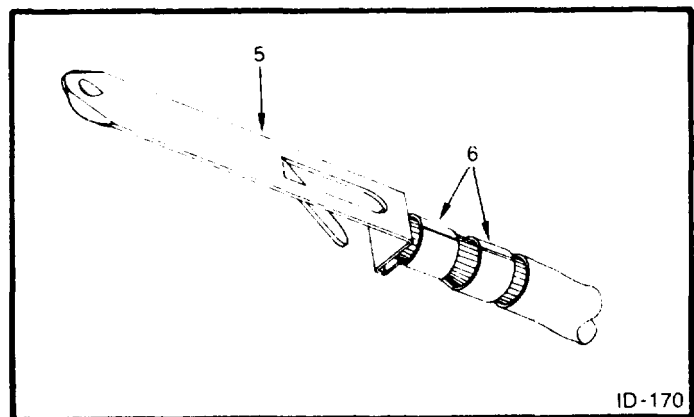
ID-125

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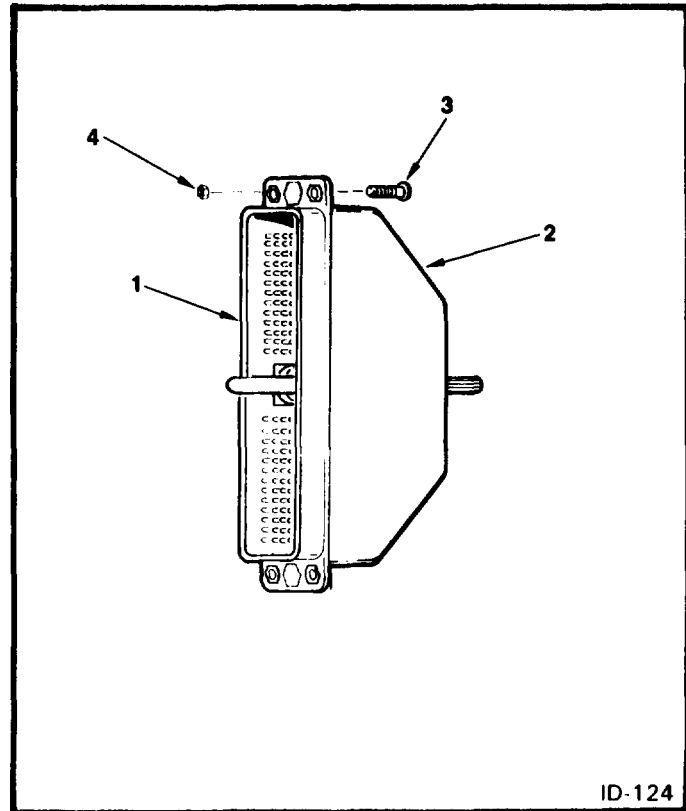
3-17. REMOVE/INSTALL SHORTING PLUGS TA124, TA125 AND TA132 CONNECTOR CONTACT(S) /CONNECTOR PLUG Cont)

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

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

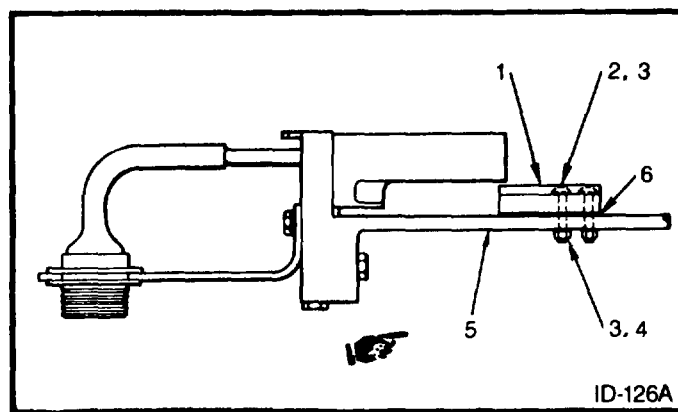
**THIS PROCEDURE SHOWS
REMOVAL/INSTALLATION
OF THE FORWARD SHOE.
THE INTERMEDIATE SHOE
IS REMOVED/INSTALLED IN
THE SAME MANNER.**

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 ADAPTER 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

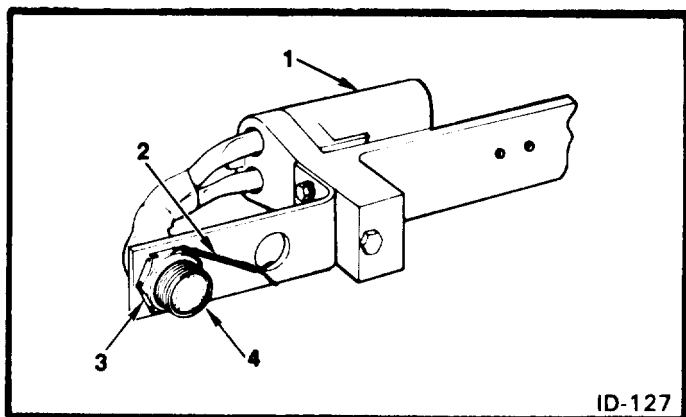
Para Condition Description

3-19 Forward shoe removed

REMOVAL

1. REMOVE CONNECTOR HOUSING (1).

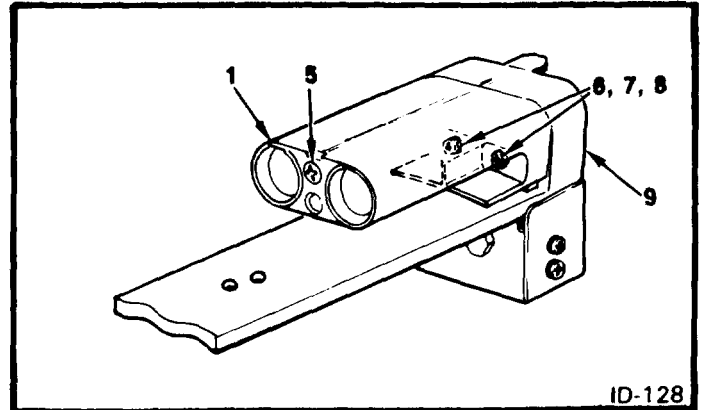
- a. Remove lockwire (2), from retaining nut (3).
- b. Remove retaining nut (3) from connector (4).



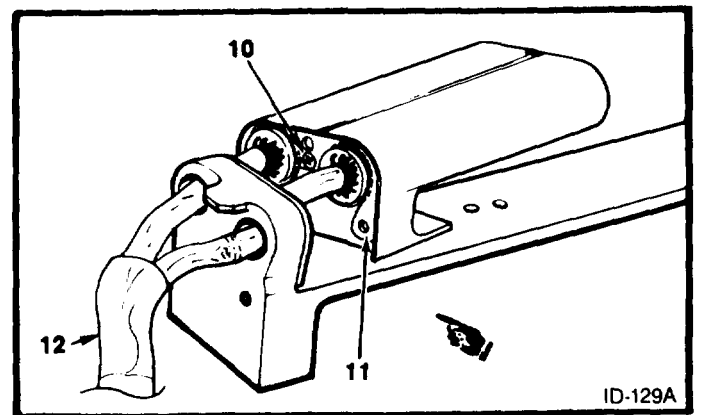
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3-19. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, CONNECTOR HOUSING/WIRING HARNESS (Cont)

- 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

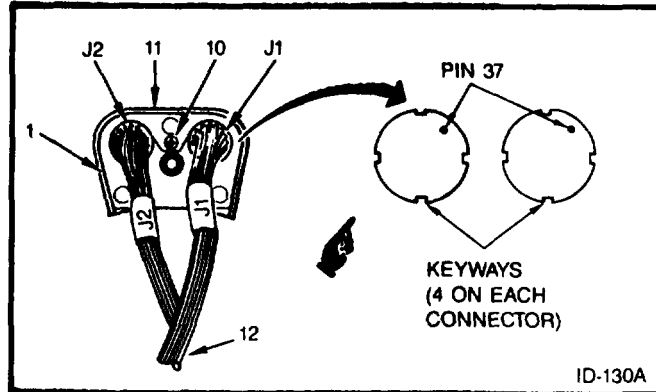
- 1. **APPLY PRIMER TO SHANKS AND UNDER HEADS** of screws and to nuts. Allow to dry.
- 2. **APPLY SEALING PRIMER AND SEALING COMPOUND** to screw (5) threads.

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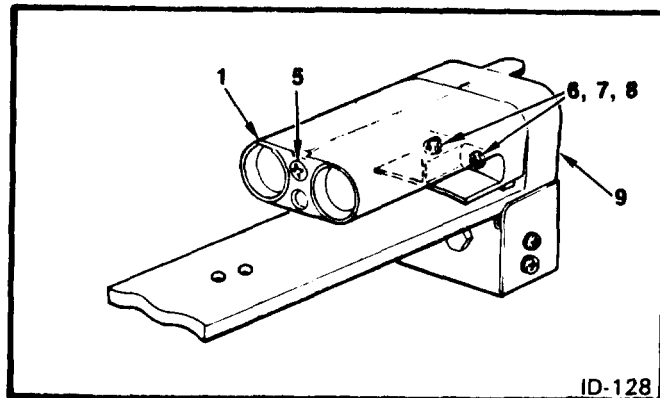
3-19. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, CONNECTOR HOUSING/WIRING HARNESS (Cont)

3. INSTALL CONNECTOR HOUSING (1).

- a. Position wiring harness (12) in connector housing.
- b. Install retainer (11), retainer screw (10) and tighten.

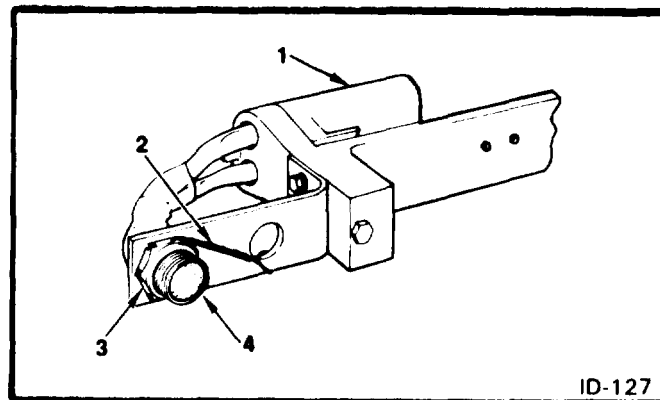


- c. Position connector housing (1) in support bracket (9) and install screw (5), two lock washers (8), two flat washers (7), and two screws (6).



- 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)

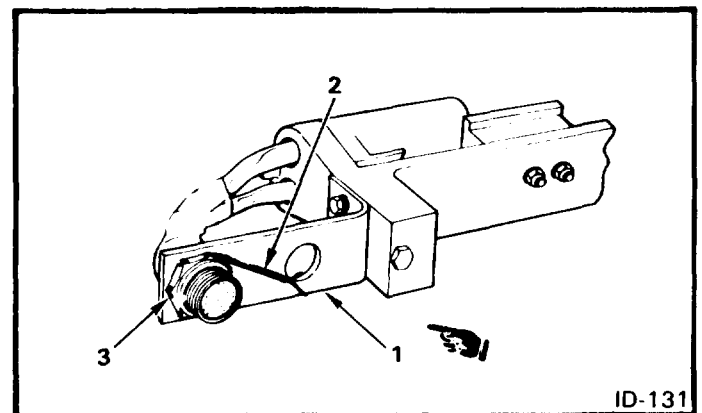
Personnel Required

One MOS 35C10

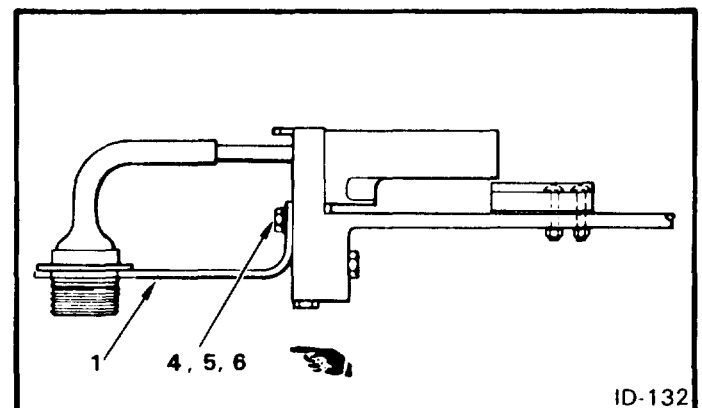
REMOVAL

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).

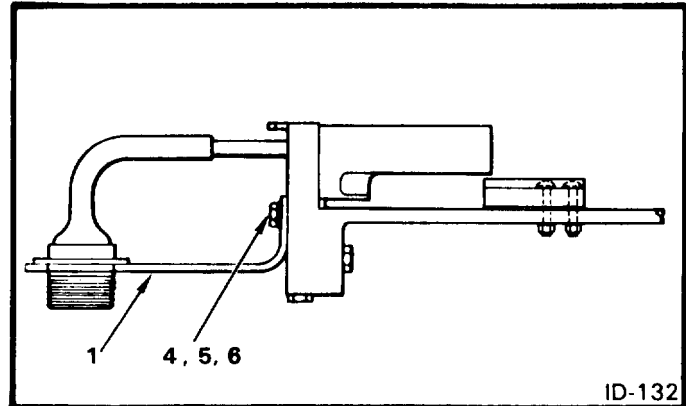


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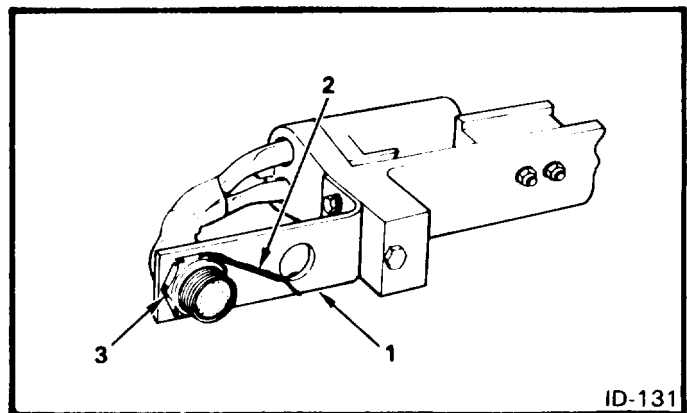
3-20. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, SUPPORT BRACKET (Cont)

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

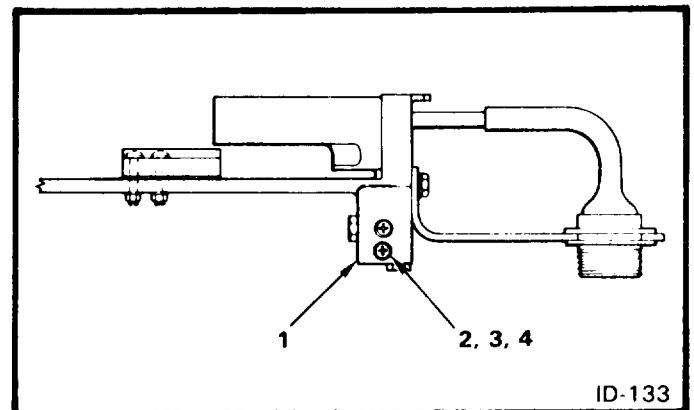
One MOS 35C10

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. **TORQUE 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

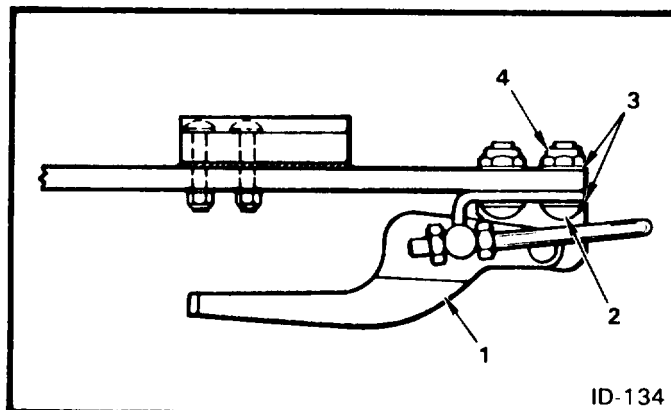
One MOS 35C10

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

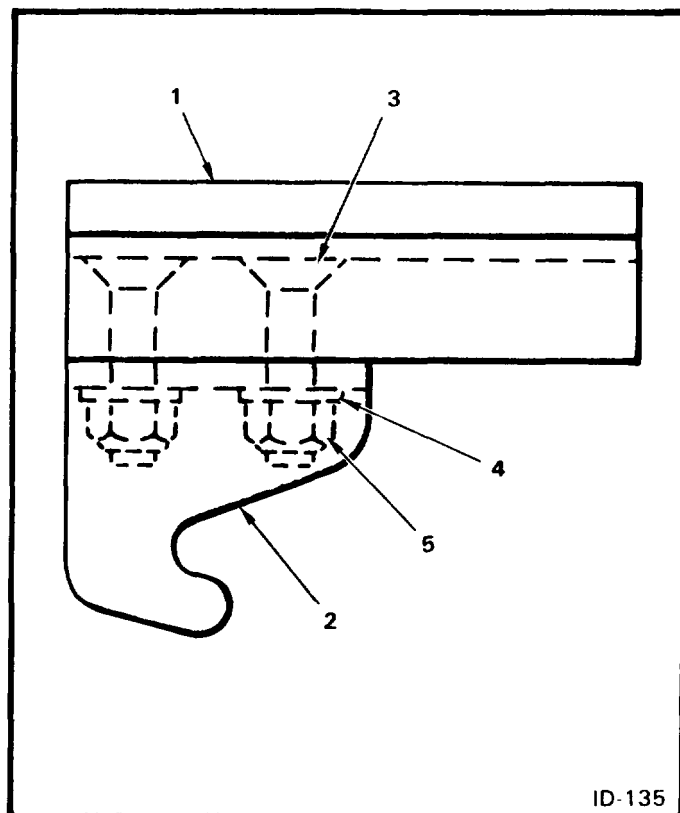
One MOS 35C10

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.**



ID-135

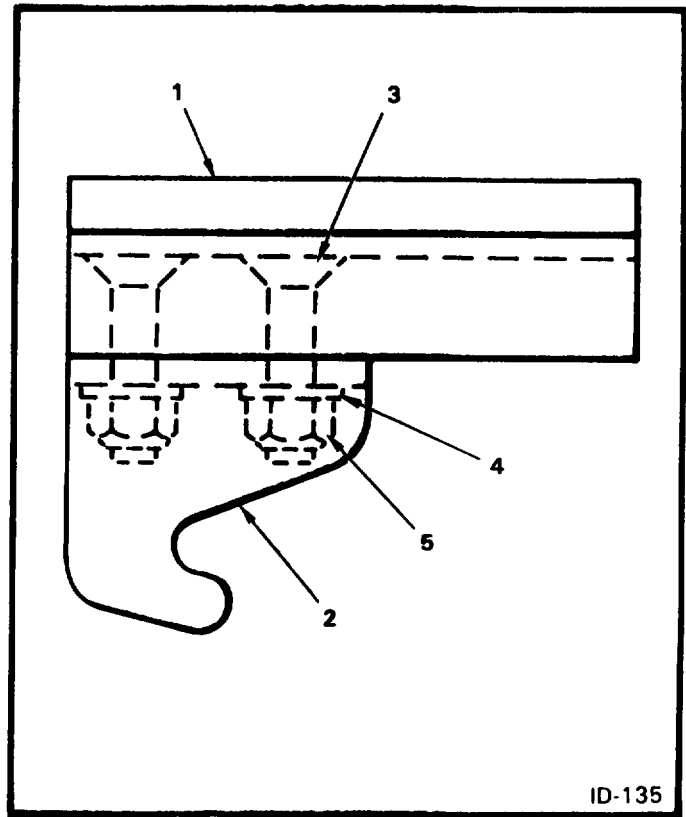
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3-23. REMOVE/INSTALL RAIL ADAPTER ASSEMBLY, REAR SHOE (Cont)

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-POUNDS.



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

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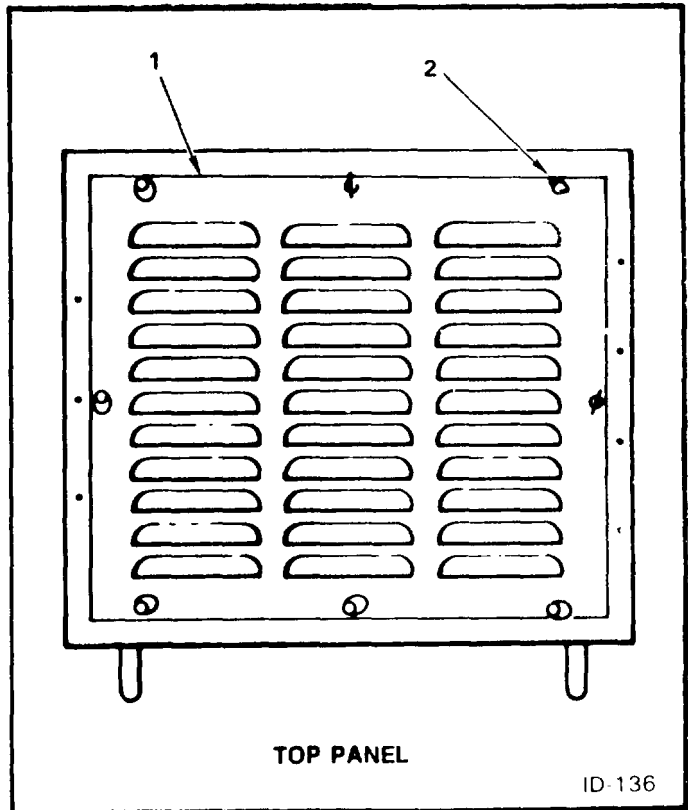
3-24. REMOVE/INSTALL LOADBOX BOTTOM/TOP LOUVER PANEL (Cont)

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).

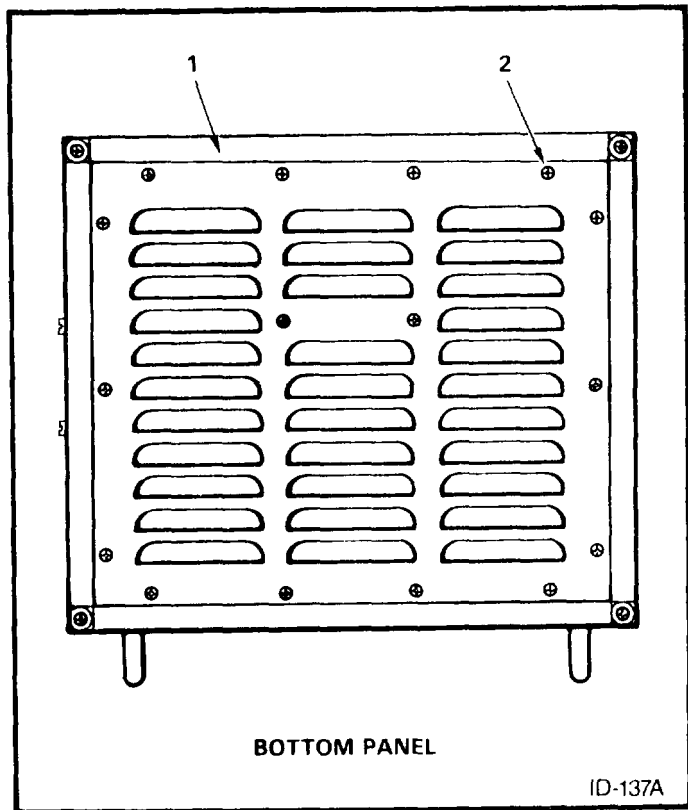


INSTALLATION

NOTE

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

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



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

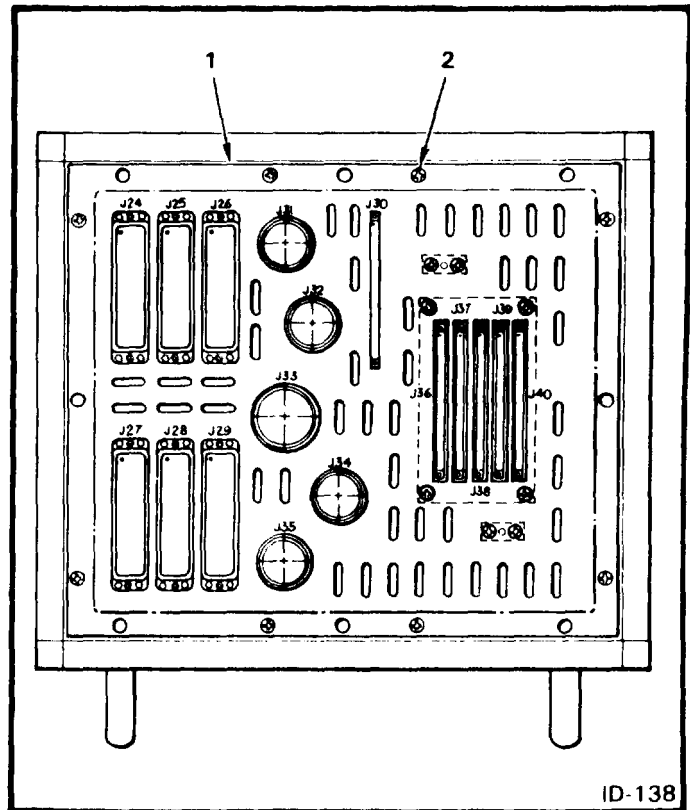
| Para | Condition | Description |
|------|---------------------------|-------------|
| 3-24 | Top Louver Panel removed. | |

REMOVAL

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

INSTALLATION

- 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

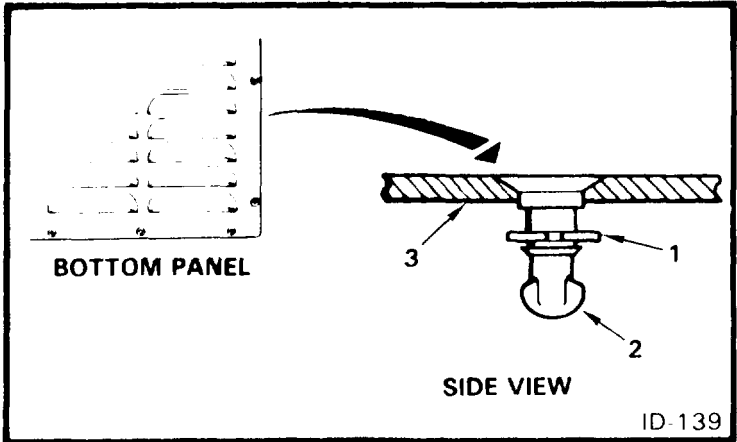
| Para | Condition Description |
|------|----------------------------------|
| 3-24 | Applicable Louver Panel removed. |

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, 3/4-inch

Personnel Required

One MOS 35C10

Equipment Condition

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

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

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

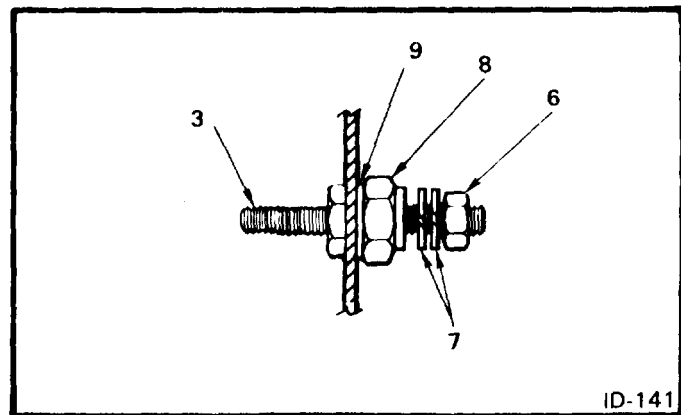
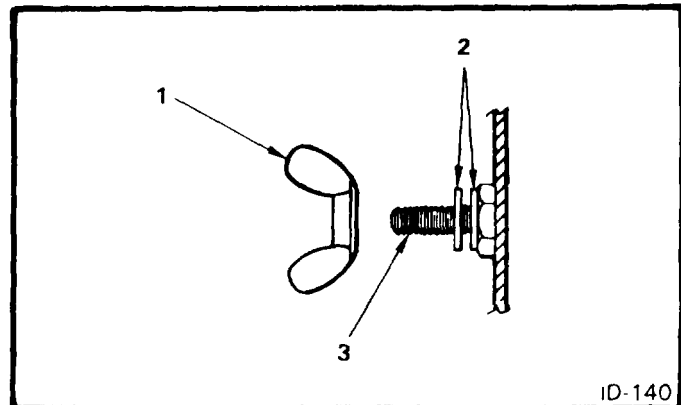
REMOVAL

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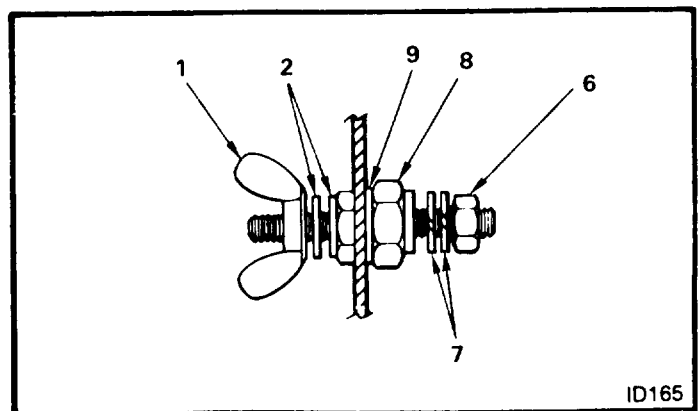
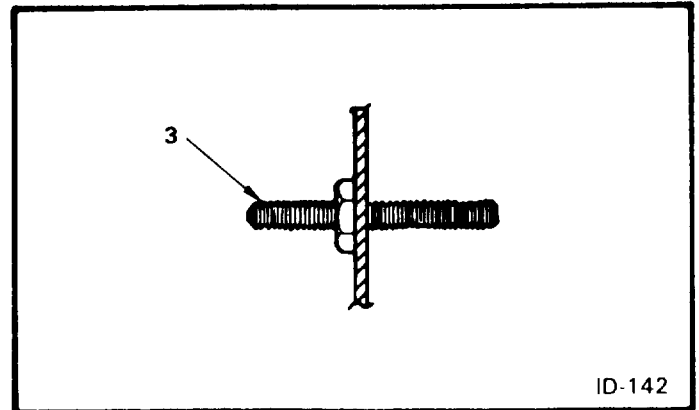
3-27. REMOVE/INSTALL LOADBOX GROUND STUD (Cont)

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, 1/4-inch

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

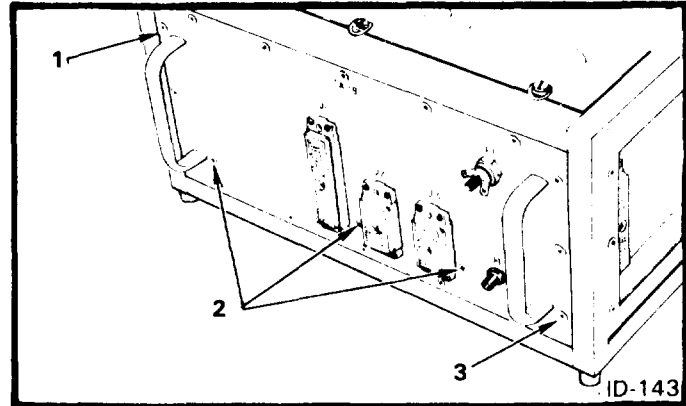
Artist brush (Item 14)
Compound sealant (Item 5)
Handle

Personnel Required

One MOS 35C10

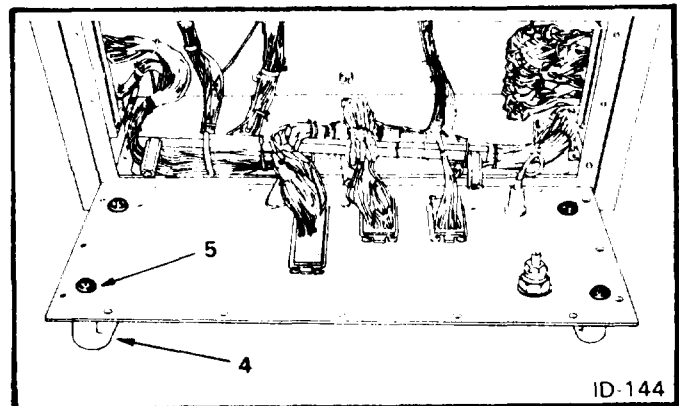
REMOVAL

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).

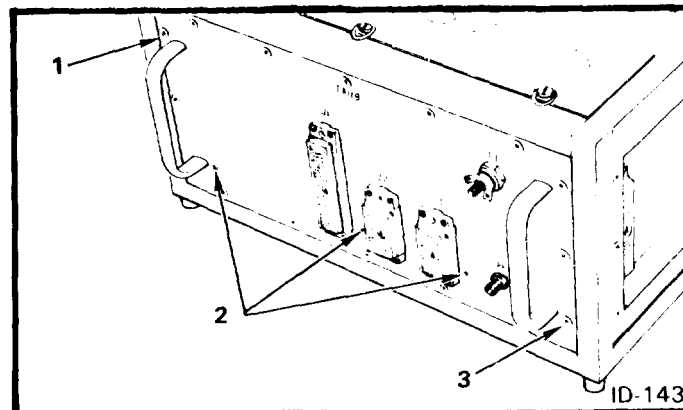


GO TO NEXT PAGE

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, 1/4-inch
- Wrench, box and open end, 1/4-inch
- Pliers
- Screwdriver, cross tip No. 1
- Handle, socket wrench, 1/4-inch drive
- Knife, pocket
- Wrench, box and open end, 3/16-inch
- Solder/Desolder tool
- Socket 7/16-inch, 1/4-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. | |

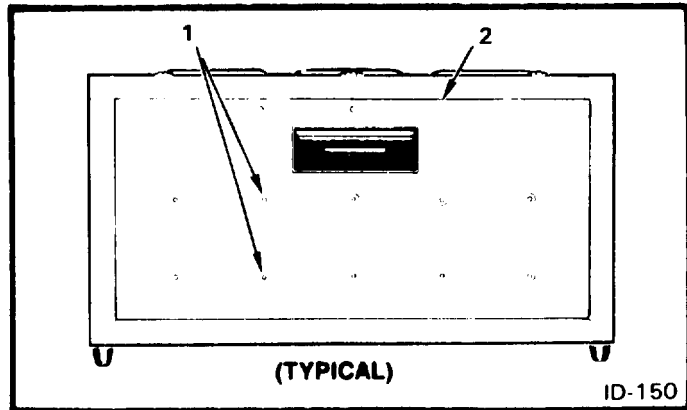
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3-29. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY A1, A2, A4, OR A5 RESISTOR (Cont)

REMOVAL

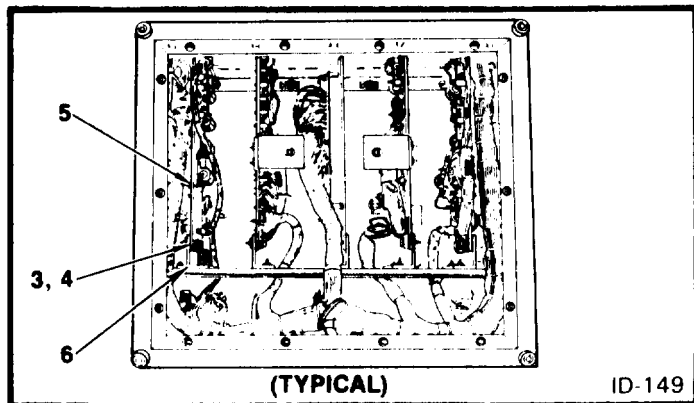
1. REMOVE TWO SOCKET HEAD SCREWS

(1) attaching applicable resistor assembly to rear panel (2).

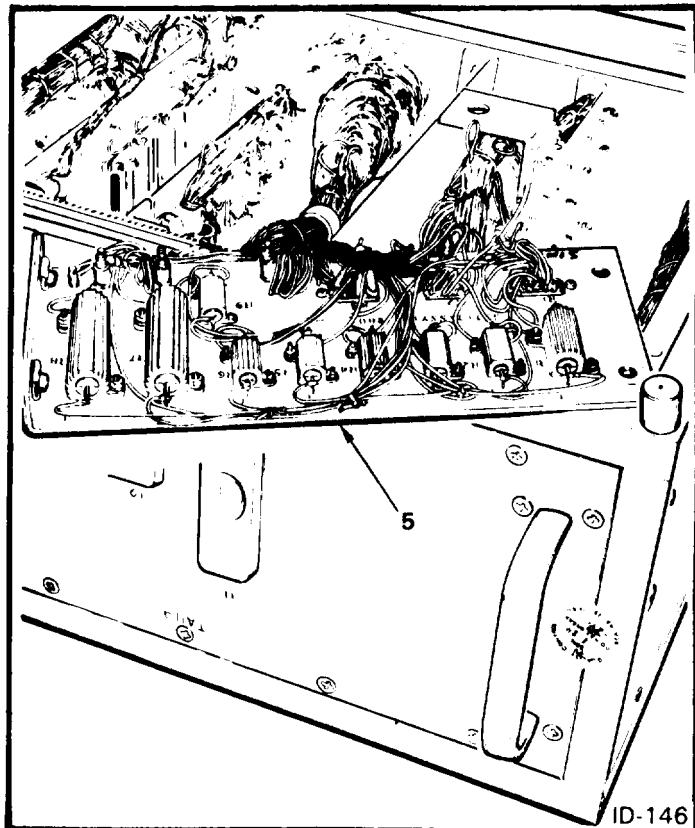


2. REMOVE TWO HEX HEAD SCREWS (3)

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.

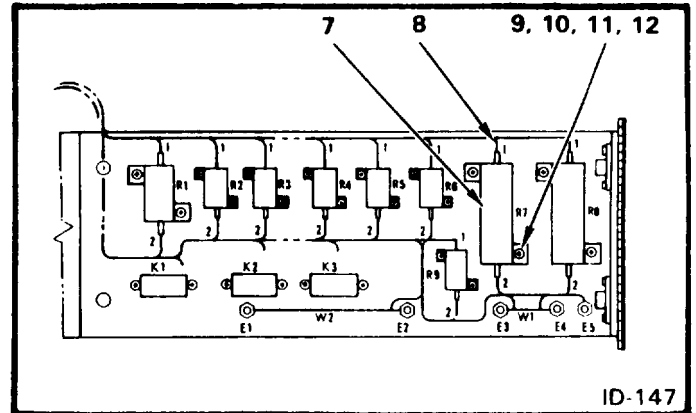


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3-29. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY A1, A2, A4, OR A5 RESISTOR (Cont)

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.

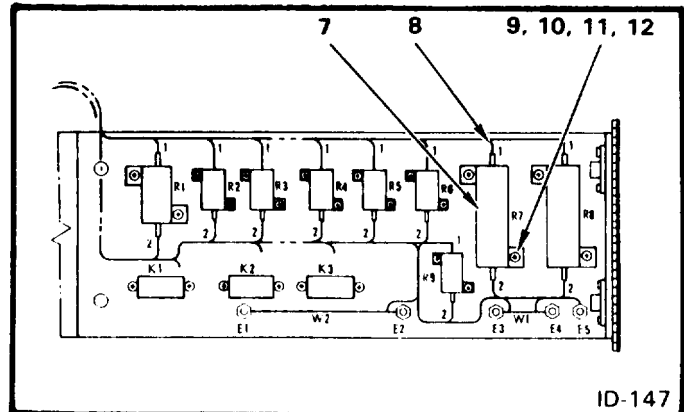
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3-29. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY A1, A2, A4, OR A5 RESISTOR (Cont)

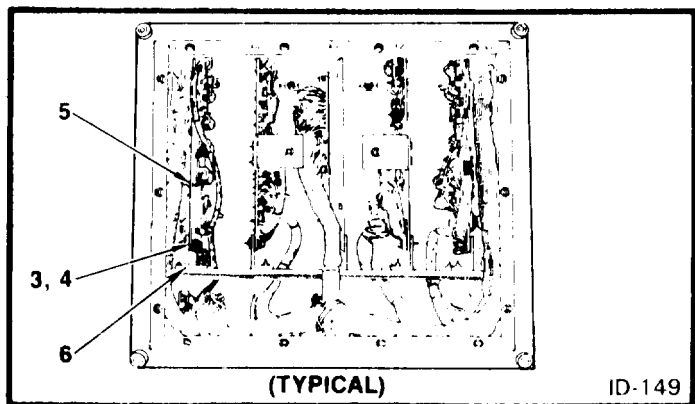
b. Install two screws (9), two flat washers (10), two lock washers (11), and two nuts (12) and tighten.

c. Solder resistor leads to connecting wire.

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

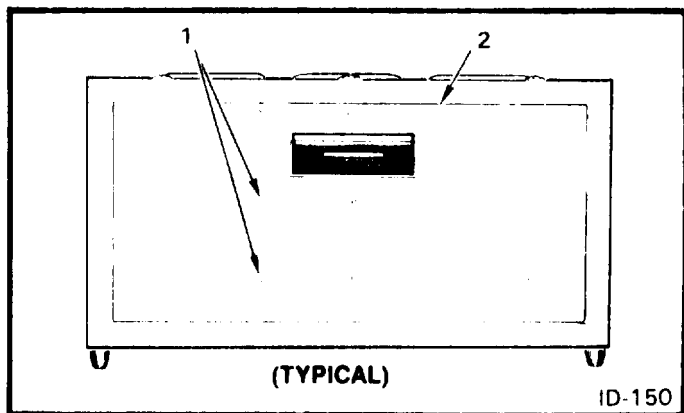


4. **ATTACH FRONT END OF RESISTOR ASSEMBLY (5)** to support assembly (6) with two screws (3) and two flat washers (4).



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

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

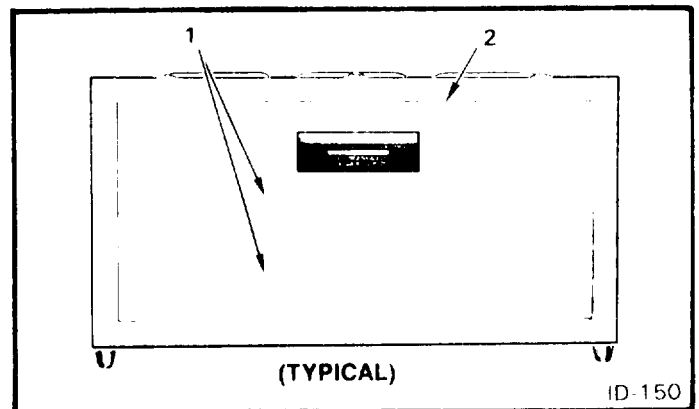
Equipment Condition

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

REMOVAL

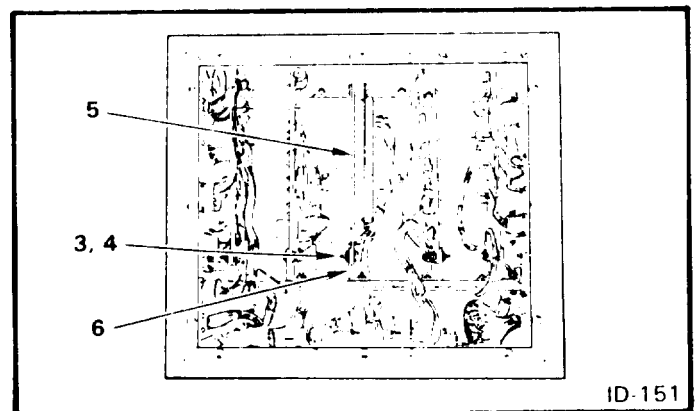
1. REMOVE TWO SOCKET HEAD SCREWS

(1) from rear panel (2).



2. REMOVE TWO HEX HEAD SCREWS (3)

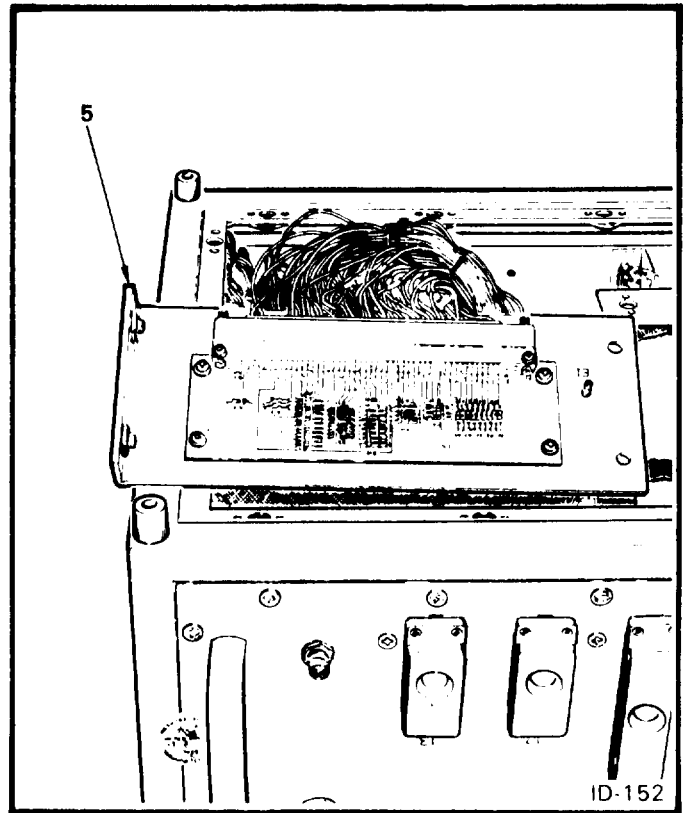
and two flat washers (4) attaching resistor support assembly (5) to center support (6).



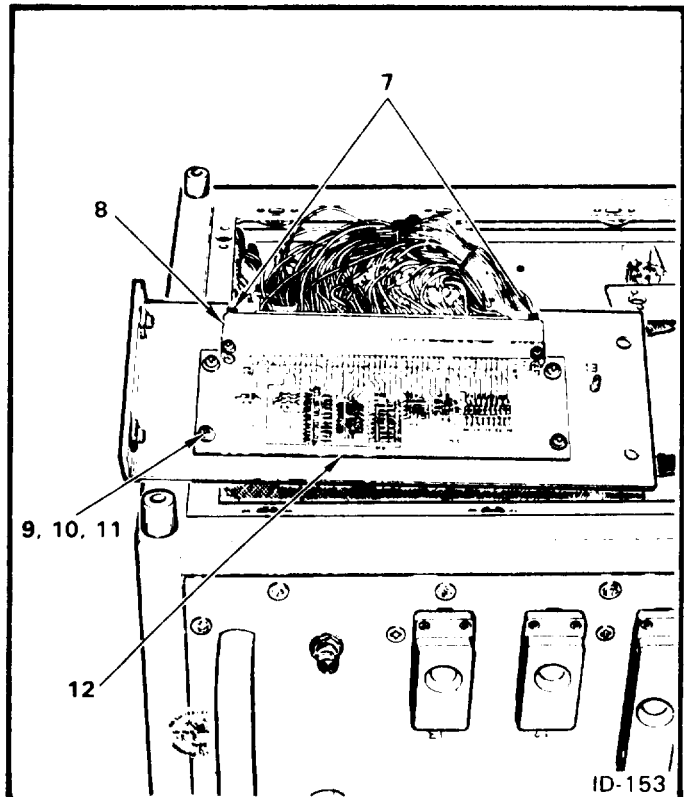
GO TO NEXT PAGE

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

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



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

Equipment Condition

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

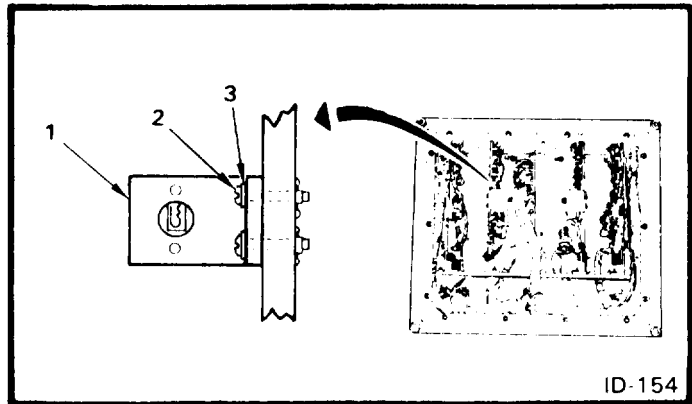
| Para | Condition | Description |
|------|-----------------------|-------------|
| 3-24 | Bottom panel removed. | |

Support assembly

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, 1/4-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

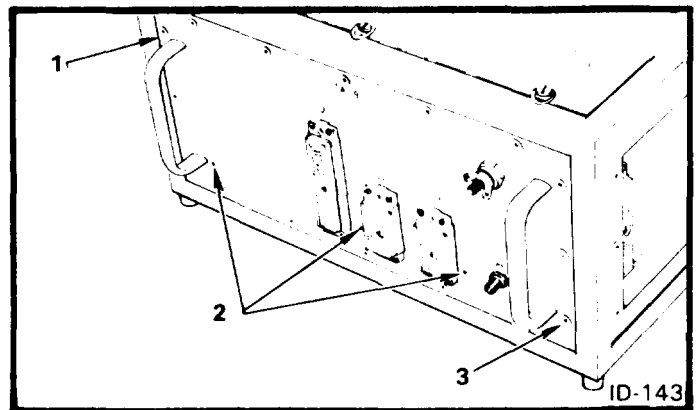
| Para | ConditionDescription |
|------|--------------------------------------|
| 3-24 | Top and Bottom Louver Panel removed. |
| 3-25 | Forward Harness Adapter removed. |

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.

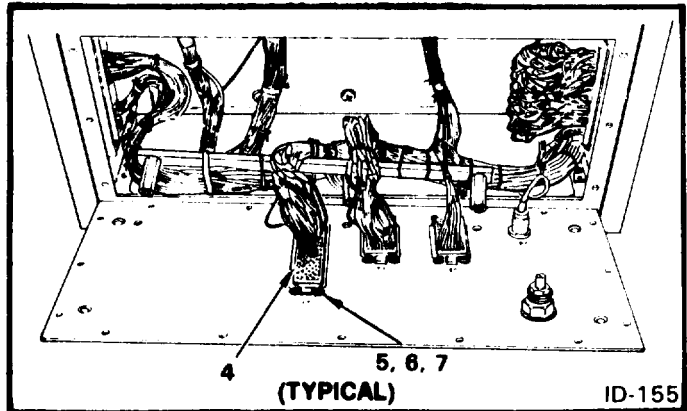


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3-32. REMOVE/INSTALL LOADBOX CONNECTOR J1, J2, or J3 (Cont)

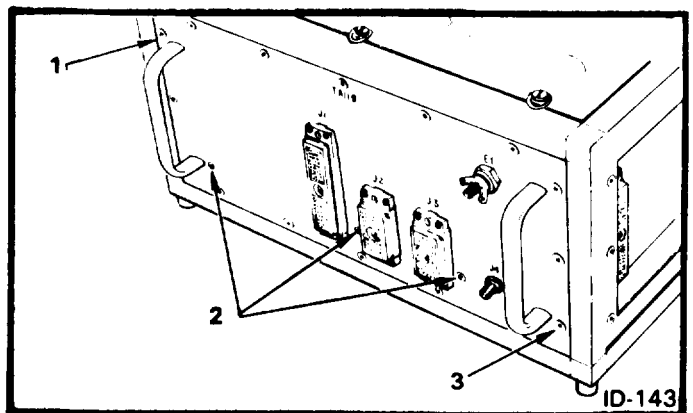
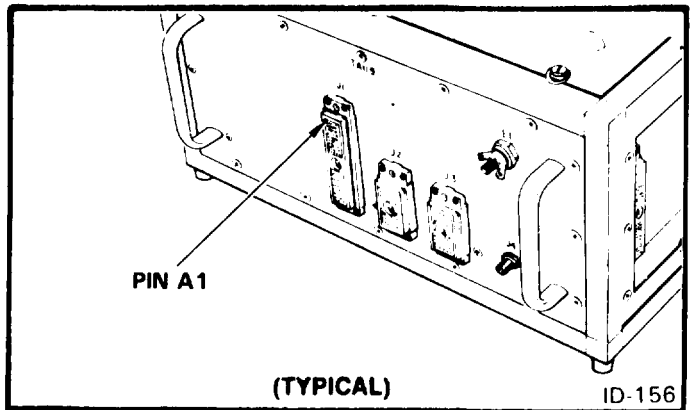
3. REMOVE CONNECTOR (4) from front panel.

- 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 A1 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

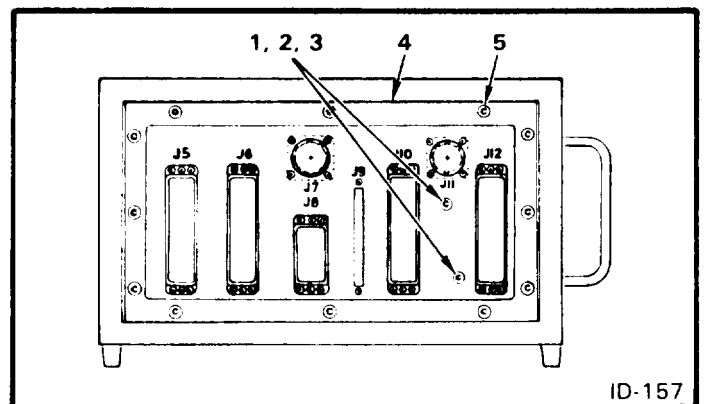
| Para | Condition | Description |
|------|--------------------------------------|-------------|
| 3-24 | Top and Bottom Louver Panel removed. | |
| 3-25 | Forward Harness Adapter removed | |

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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GO TO NEXT PAGE

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 A1 in upper left position.

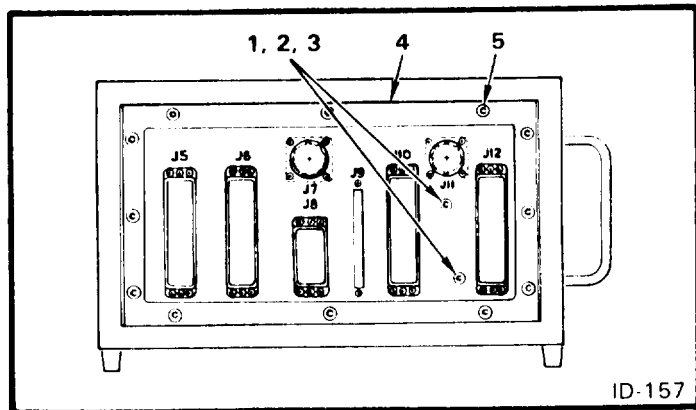
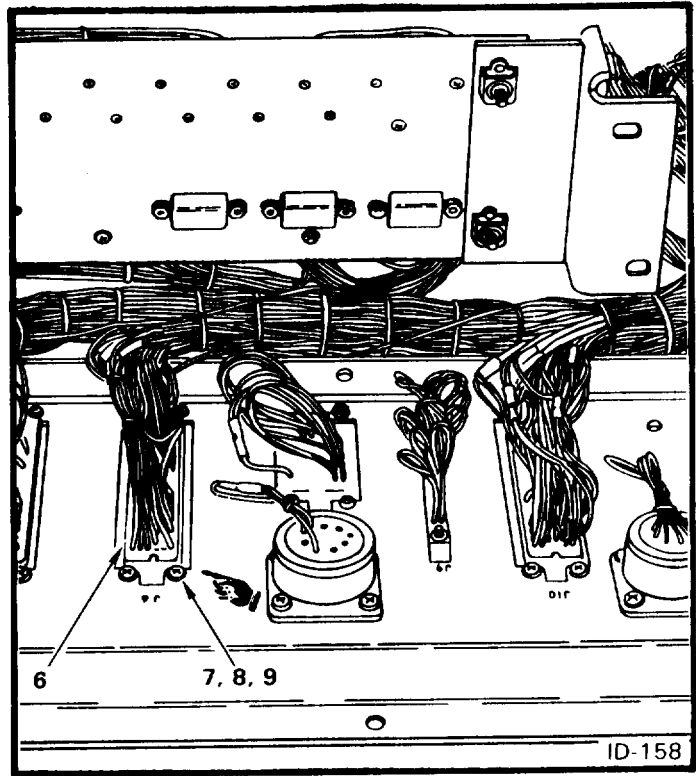
- a. Install four screws (7), four washers (8), and four nuts (9) and tighten.

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

Personnel Required

One MOS 35C10

Equipment Condition

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

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

- Identification label (Item 1)
- Connector receptacle

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

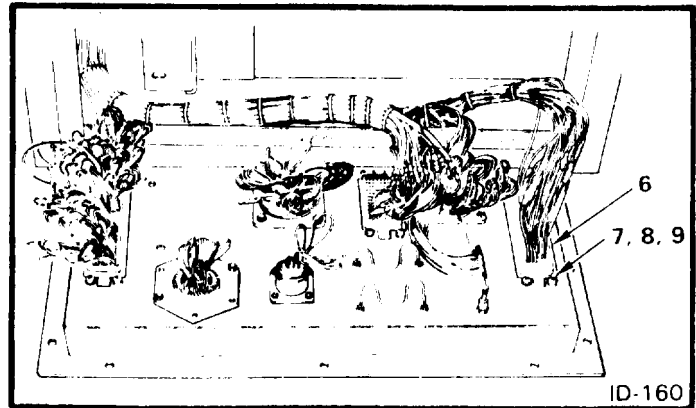
CONNECTOR J13 IS A SHORTING PLUG AND MAY BE REMOVED PRIOR TO REMOVING/REPLACING CONTACTS.

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).



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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.

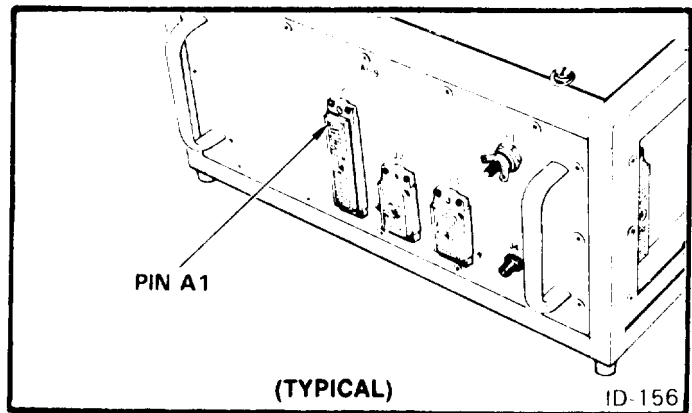
2. INSERT CONTACTS in connector and remove labels.

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

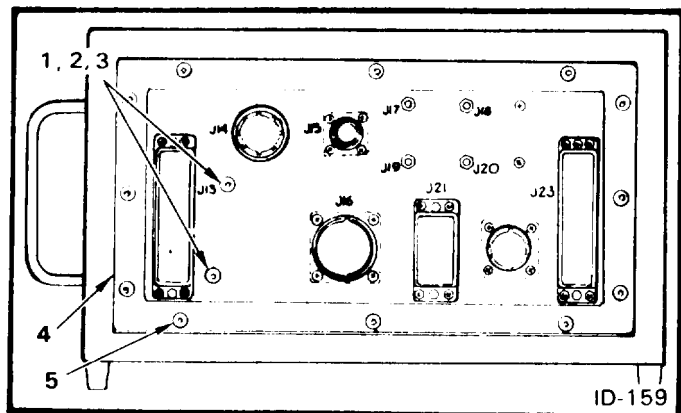
4. INSTALL RIGHT SIDE PANEL (4).

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.



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ID-159

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 $\frac{5}{32}$ -inch
- Handle, socket, spin rigid, $\frac{1}{4}$ -inch
- Pliers, diagonal cut
- Stripper, wire
- Solder/Desolder tool
- Wrench, box and open $\frac{1}{4}$ -inch

Personnel Required

One MOS 35C10

Equipment Condition

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

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

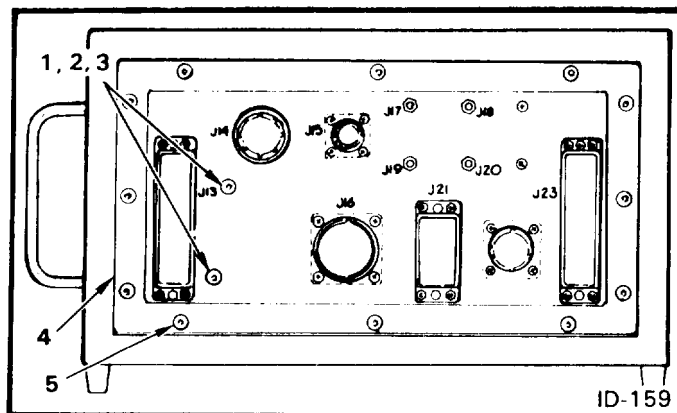
- Solder (Item 11)
- Flux (Item 7)
- Connector

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

3-35. 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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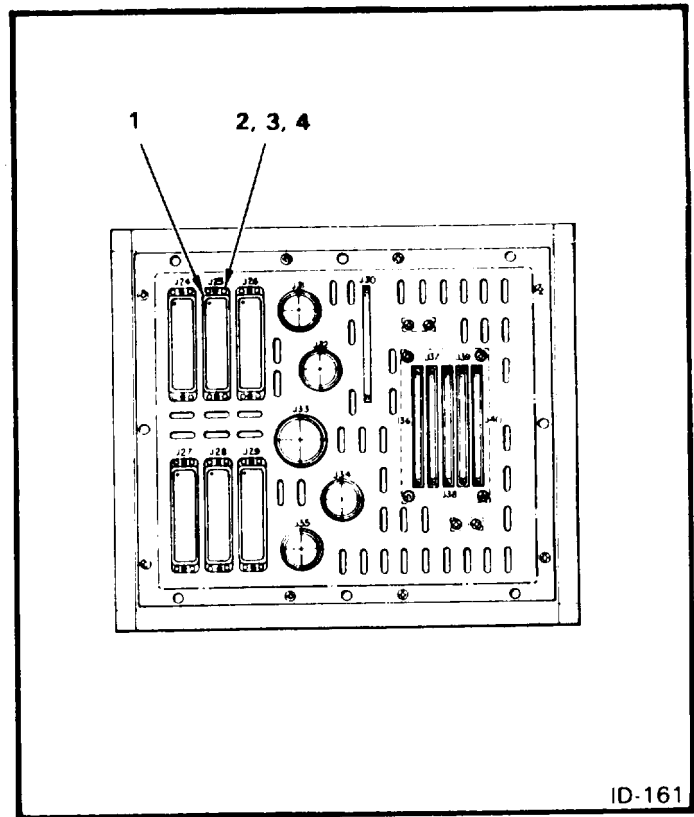
3-36. REMOVE/INSTALL LOADBOX CONNECTOR J24, J25, J26, J27, J28 OR J29 (Cont)

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 A1 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, 1/4-inch
- Wrench, box and open, 1/4-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

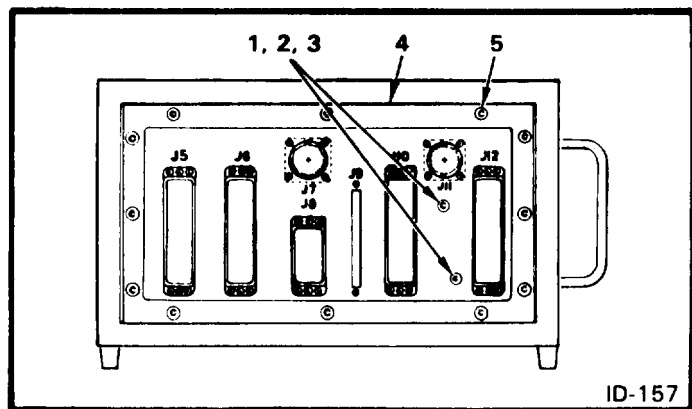
| Para | Condition Description |
|------|--------------------------------------|
| 3-24 | Bottom and Top Louver Panel removed. |
| 3-25 | Forward Harness Adapter removed. |

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.

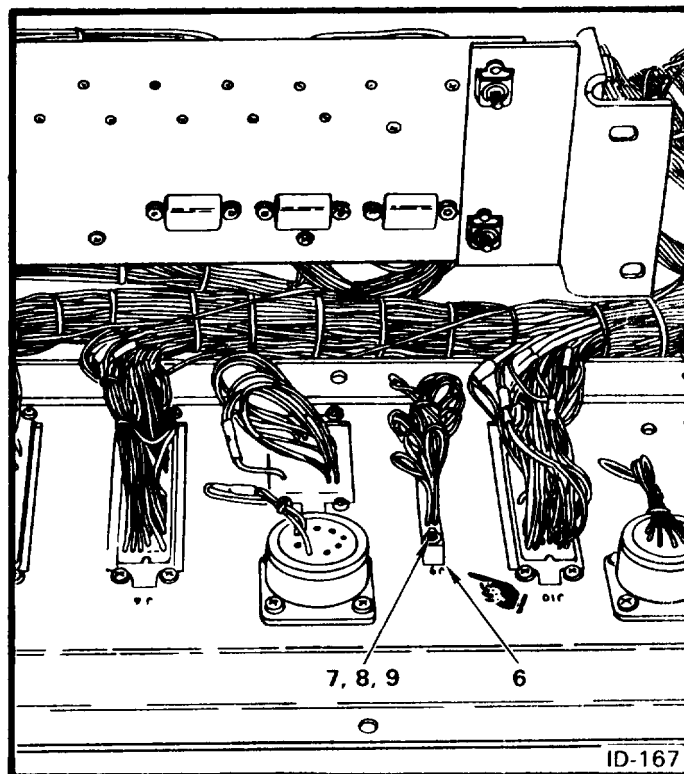


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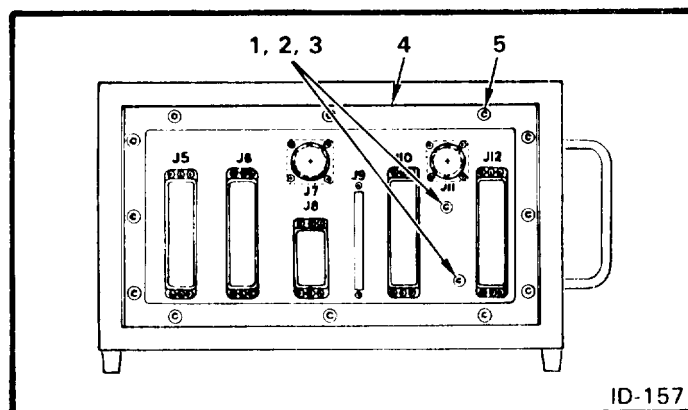
3-37. REMOVE/INSTALL LOADBOX CONNECTOR J9 (Cont)

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 A1 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)

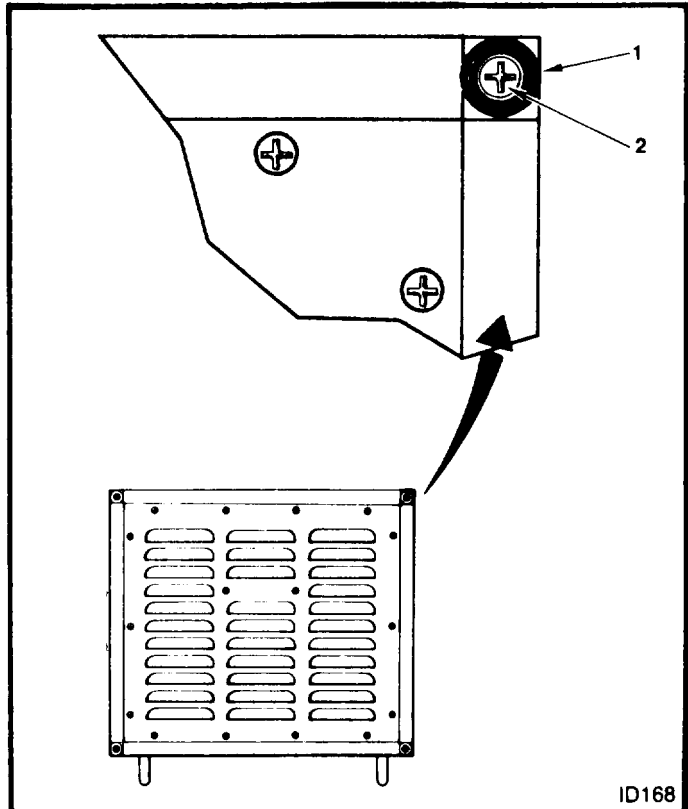
Sealant compound (Item 5)
Brush, Artist (Item 14)
Bumper

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, ¹/₄-inch
- Wrench, box and open end, ¹/₄-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

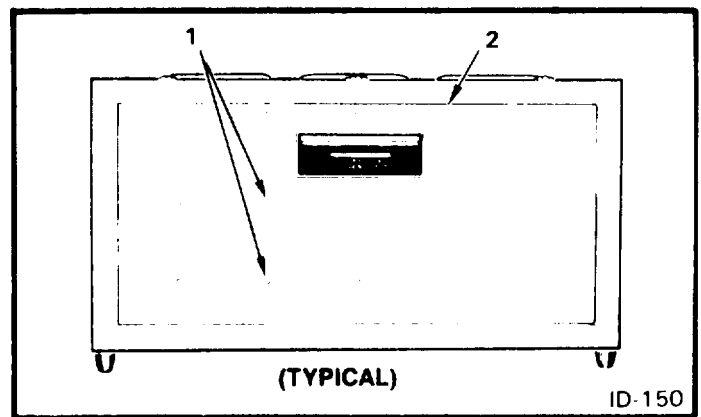
One MOS 35C10

Equipment Condition

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

REMOVAL

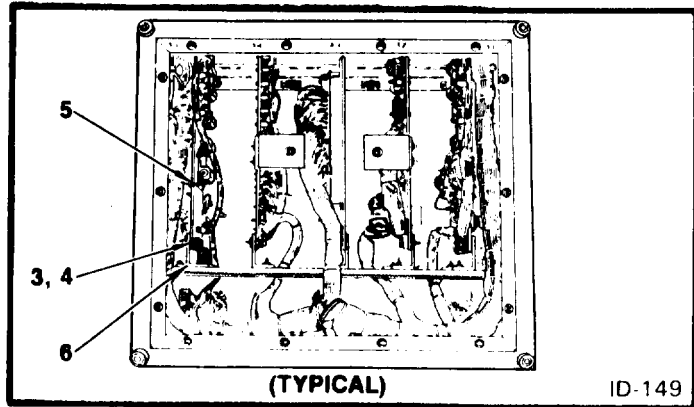
1. **REMOVE TWO SOCKET HEAD SCREWS**
(1), attaching applicable resistor assembly to rear panel (2).



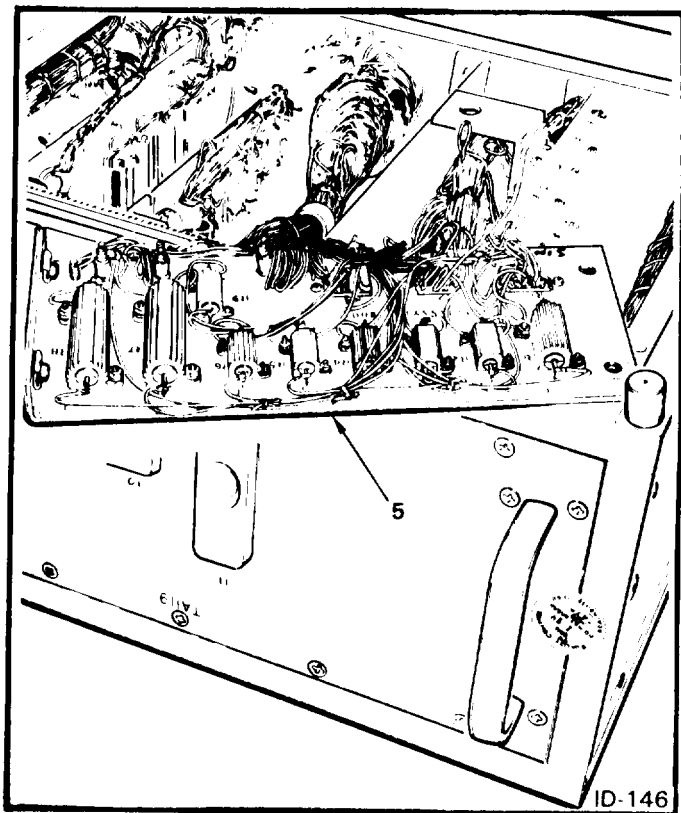
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3-39. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY, RELAY (Cont)

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



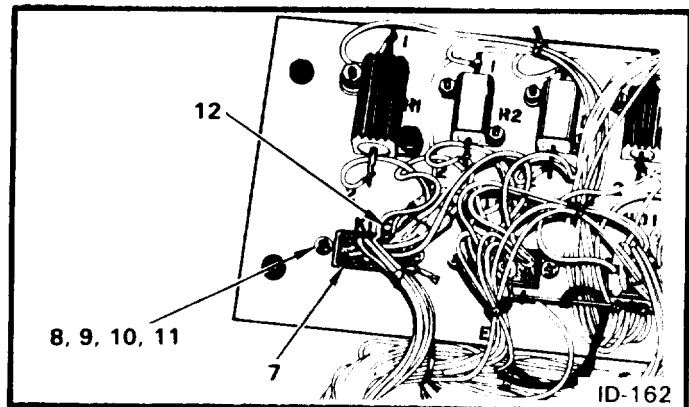
3. **PULL RESISTOR ASSEMBLY (5)**
THROUGH THE BOTTOM AND
TOWARD FRONT OF LOADBOX
to allow access to relay.



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

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

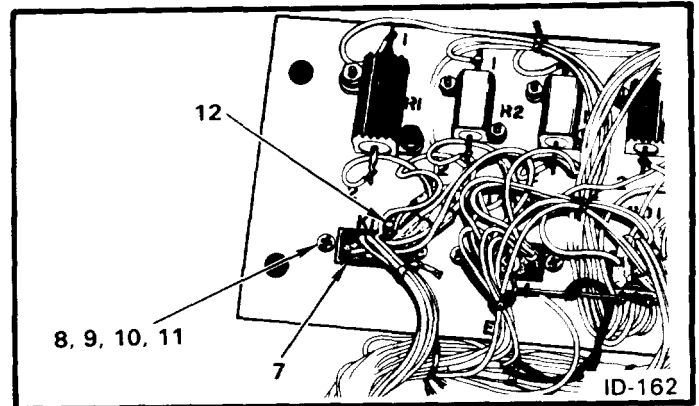
- a. Remove two screws (8), two flat washers (9), two lock washers (10), and two nuts (11).



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

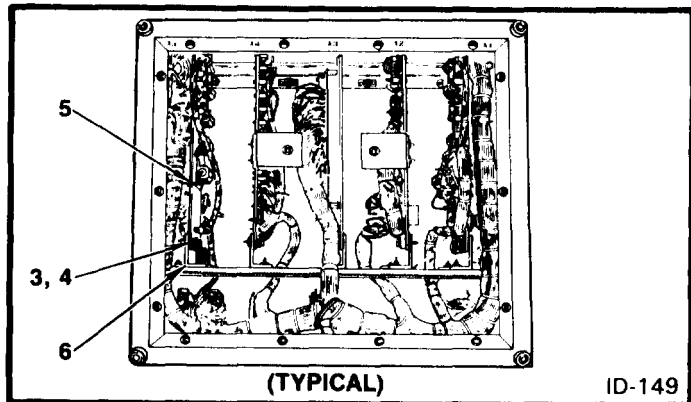
DIODE LEADS AND WIRE LEADS THAT ARE ATTACHED TO THE SAME CONNECTOR SHOULD BE SOLDERED SIMULTANEOUSLY.

2. **SOLDER DIODE AND WIRE LEADS** to relay connectors and remove labels.
3. **CLEAN RELAY AREA** as required.
4. **POSITION RESISTOR ASSEMBLY** in load-box. Check for pinched wires.

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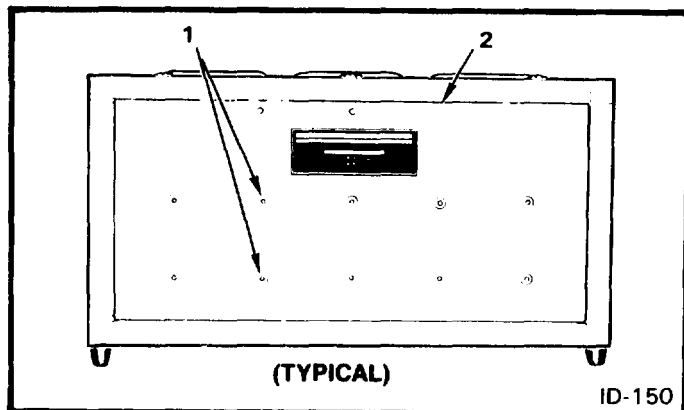
3-39. REMOVE/INSTALL LOADBOX RESISTOR ASSEMBLY, RELAY (Cont)

- **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
 Quality 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 9-4935-475-30P

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

Maintenance Category

| Group Number | Component/Assembly | Maintenance Function | 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 | | | | | | | Tools and Equipment |
|--------------|------------------------|----------------------|----------------------|-----|-----|-----|-----|-----|-----|---|
| | | | C | O | F | P | D | | | |
| Z3D11F | Shtg Plg Assy TA129 | Remove/Replace | .00 | .00 | .01 | .00 | .00 | .00 | .00 | 0038 0040 0043 0045 0047 0974 0078 0079 0083 0084 0086 0088 |
| Z3D11G | Shtg Plg Assy TA125 | Remove/Replace | .00 | .00 | .01 | .00 | .00 | .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 | .00 | .00 | 0012 0013 0027 0029 0032 0034 0036 0038 0088 |
| Z3D11J1A | Wiring Harness Adapter | Repair | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 0006 |
| Z3D11K | Transit Case Assy | Inspect | .00 | .00 | .03 | .00 | .00 | .00 | .00 | 0006 0007 |
| Z3D11L | Loadbox TA119 | Install | .00 | .00 | .70 | .00 | .00 | .00 | .00 | 0002 |
| Z3D11L1A | Resistor Assy A4 | Repair | .00 | .00 | .09 | .00 | .00 | .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 |
| Z3D11L1B | Resistor Assy A1 | Repair | .00 | .00 | .12 | .00 | .00 | .00 | .00 | 0002 0031 0035 0049 0058 0065 0087 0090 |
| Z3D11L1C | Resistor Assy A2 | Repair | .00 | .00 | .12 | .00 | .00 | .00 | .00 | 0002 0031 0035 0049 0058 0065 0080 0081 0087 0088 0090 |
| Z3D11L1D | Resistor Assy A5 | Repair | .00 | .00 | .09 | .00 | .00 | .00 | .00 | 0002 0031 0035 0049 0058 0065 0087 0090 |

Section II. MAINTENANCE ALLOCATION CHART (Cont)

| Group Number | Component/Assembly | Maintenance Function | Maintenance Category | | | | | | | Tools and Equipment |
|--------------|---------------------|----------------------|----------------------|-----|------|-----|-----|-----|-----|--|
| | | | C | O | F | P | D | | | |
| Z3D11L1F | Resistor Suppt Assy | Repair | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 0052 0056 0061 |
| Z3D11L1H | Louver Panel Assy | Remove/Replace | .00 | .00 | 2.00 | .00 | .00 | .00 | .00 | 0073 0048 0075 |
| Z3D11L1K | Louver Panel Assy | Remove/Replace | .00 | .00 | .06 | .00 | .00 | .00 | .00 | |
| Z3D11M | AR Adapter Assembly | Remove/Replace | .00 | .00 | .02 | .00 | .00 | .00 | .00 | 0048 0002 |
| Z3D2 | Test Cable Transit | Repair | .00 | .00 | .03 | .00 | .00 | .00 | .00 | |
| Z3D21A | Cable Assy CA150 | Install | .00 | .00 | .01 | .00 | .00 | .00 | .00 | |
| Z3D21B | Cable Assy CA151 | Remove/Replace | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 0089 0002 |
| Z3D21C | Cable Assy CA152 | Repair | .00 | .00 | .02 | .00 | .00 | .00 | .00 | 0002 0017 0019 0023 0038 0049 0043 0045 0047 0070 0072 0074 0078 0079 0083 0084 0088 |
| Z3D21D | Cable Assy CA153 | Install | .00 | .00 | .07 | .00 | .00 | .00 | .00 | 0002 |
| | | Remove/Replace | .00 | .00 | .01 | .00 | .00 | .00 | .00 | |
| | | Repair | .00 | .00 | .55 | .00 | .00 | .00 | .00 | 0002 0038 0040 0043 0045 0047 0074 0078 0079 0083 0084 0088 |
| | | Install | .00 | .00 | .01 | .00 | .00 | .00 | .00 | 0002 |
| | | Remove/Replace | .00 | .00 | .01 | .00 | .00 | .00 | .00 | |
| | | Repair | .00 | .00 | .71 | .00 | .00 | .00 | .00 | 0002 0015 0024 0038 0040 0043 0045 0047 0048 0072 0074 0078 0079 0083 0084 0088 |
| | | Install | .00 | .00 | .01 | .00 | .00 | .00 | .00 | 0002 |
| | | Remove/Replace | .00 | .00 | .01 | .00 | .00 | .00 | .00 | |
| | | Repair | .00 | .00 | .40 | .00 | .00 | .00 | .00 | 0002 0015 0024 0038 0040 0043 0045 0047 0048 0072 0074 0078 0079 0083 0084 0088 |

Section II. MAINTENANCE ALLOCATION CHART (Cont)

| Group Number | Component/Assembly | Maintenance Function | Maintenance Category | | | | | | | Tools and Equipment |
|--------------|---------------------|----------------------|----------------------|-----|-----|-----|-----|-----|-----|--|
| | | | C | O | F | P | D | | | |
| Z3D21E | Cable Assy CA154 | Install | .00 | .00 | .01 | .00 | .00 | .00 | .00 | 0002 |
| | | Remove/Replace | .00 | .00 | .01 | .00 | .00 | .00 | .00 | |
| | | Repair | .00 | .00 | .59 | .00 | .00 | .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 | .00 | .00 | 0002 |
| | | Remove/Replace | .00 | .00 | .01 | .00 | .00 | .00 | .00 | |
| | | Repair | .00 | .00 | .34 | .00 | .00 | .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 | .00 | .00 | 0002 |
| | | Remove/Replace | .00 | .00 | .01 | .00 | .00 | .00 | .00 | |
| | | Repair | .00 | .00 | .64 | .00 | .00 | .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 | .00 | .00 | 0002 |
| | | Remove/Replace | .00 | .00 | .01 | .00 | .00 | .00 | .00 | |
| | | Repair | .00 | .00 | .36 | .00 | .00 | .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 | .00 | .00 | 0002 |
| | | Remove/Replace | .00 | .00 | .01 | .00 | .00 | .00 | .00 | |
| | | Repair | .00 | .00 | .29 | .00 | .00 | .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 | .00 | .00 | |
| | | Repair | .00 | .00 | .14 | .00 | .00 | .00 | .00 | 0090 |

Section II. MAINTENANCE ALLOCATION CHART (Cont)

Maintenance Category

| Group Number | Component/Assembly | Maintenance Function | 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 | Signal Contr 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 | Install/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, 1/4 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 1—Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., “Use cleaning compound, item 5, App. 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 TO | | | FROM WIRE TO | | | FROM WIRE TO | | | FROM WIRE TO | | |
|--------------|------|---------|--------------|------|---------|--------------|------|---------|--------------|------|---------|
| ID | | | ID | | | ID | | | ID | | |
| A1E5 | 1426 | J1-X6 | A1R7-1 | 1405 | A1W1 | A2K2-A3 | 1309 | J12-W1 | A2W3 | 1251 | J1-VI |
| A1E5 | 1427 | J10-Z1 | A1R7-2 | 1404 | A1W2 | A2K2-B1 | 1319 | J12-F4 | A2W3 | 1254 | J10-M4 |
| A1E5 | 1547 | J5-N1 | | | | A2K2-B1 | 1320 | J12-M3 | A2W3 | 1253 | J10-N2 |
| A1E5 | 1107 | J5-Z1 | A1R8-1 | 1407 | A1W1 | A2K2-B1 | 1318 | J12-W3 | A2W3 | 1256 | J4-A1 |
| A1E5 | 1108 | J6-Z1 | A1R8-2 | 1406 | A1W2 | A2K2-B2 | 1322 | A2K1-A1 | A2W3 | 1262 | J6-J4 |
| | | | | | | A2K2-B3 | 1317 | J12-F5 | A2W3 | 1264 | J6-W3 |
| A1K1-A1 | 1378 | A1R1-2 | A1R9-1 | 1412 | A1W1 | A2K2-B3 | 1315 | J12-M4 | A2W3 | 1271 | A2K1-H2 |
| A1K1-A1 | 1589 | J6-P6 | A1R9-2 | 1399 | A1K3-A1 | A2K2-B3 | 1316 | J12-W4 | | | |
| A1K1-A2 | 1374 | A1K1-B2 | A1W1 | 1408 | A1R1-1 | A2K2-X1 | 1324 | J12-A3 | A2W4 | 1299 | A2R5-2 |
| A1K1-A2 | 1375 | J12-A1 | A1W1 | 1410 | A1R2-1 | A2K2-X2 | 1331 | A2K1-X2 | A2W4 | 1301 | A2R6-2 |
| A1K1-A2 | 1376 | J12-F6 | A1W1 | 1409 | A1R3-1 | A2K2-X2 | 1328 | J12-A4 | A2W4 | 1246 | J1-Y3 |
| A1K1-A3 | 1373 | A1K1-B3 | A1W1 | 1413 | A1R4-1 | | | | A2W4 | 1248 | J1-Y6 |
| A1K1-A3 | 1377 | A1W2 | A1W1 | 1414 | A1R5-1 | A2R1-1 | 1294 | A2W1 | A2W4 | 1266 | J10-G5 |
| A1K1-B2 | 1374 | A1K1-A2 | A1W1 | 1411 | A1R6-1 | A2R1-2 | 1293 | A2W2 | A2W4 | 1245 | J10-WI |
| A1K1-B2 | 1372 | J12-U6 | A1W1 | 1405 | A1R7-1 | | | | A2W4 | 1261 | J6-W1 |
| A1K1-B3 | 1373 | A1K1-A3 | A1W1 | 1407 | A1R8-1 | A2R2-1 | 1296 | A2W1 | A2W4 | 1266 | J10-G4 |
| A1K1-X1 | 1381 | A1K2-X1 | A1W1 | 1412 | A1R9-1 | A2R2-2 | 1295 | A2W2 | | | |
| A1K1-X1 | 1379 | J12-Y1 | A1W1 | 1352 | A5W2 | A2R3-1 | 1298 | A2W1 | A4E1 | 1169 | A4R1-1 |
| A1K1-X2 | 1385 | A1K2-X2 | A1W1 | 1422 | J1-Y1 | A2R3-2 | 1297 | A2W2 | A4E1 | 1136 | J3-A8 |
| A1K1-X2 | 1383 | J12-Y2 | A1W1 | 1418 | J10-W2 | | | | A4E1 | 1159 | J5-V5 |
| | | | A1W1 | 1433 | J12-D5 | A2R4-1 | 1304 | A2W1 | A4E10 | 1178 | A4R6-2 |
| A1K2-A2 | 1387 | J12-D1 | A1W1 | 1434 | J12-D6 | A2R4-2 | 1303 | A2W3 | A4E10 | 1165 | J1-N6 |
| A1JC2-A3 | 1396 | A1R3-2 | A1W1 | 1435 | J12-E1 | | | | A4E10 | 1151 | J10-L6 |
| A1K2-A3 | 1388 | J12-V3 | A1W1 | 1436 | J12-E2 | A2R5-1 | 1300 | A2W1 | A4E10 | 1147 | J6-V6 |
| A1K2-B2 | 1389 | J12-D2 | A1W1 | 1429 | J12-E3 | A2R5-2 | 1299 | A2W4 | | | |
| A1K2-B3 | 1397 | A1R2-2 | A1W1 | 1430 | J12-E4 | | | | A4E11 | 1177 | A4R5-1 |
| A1K2-B3 | 1390 | J12-V4 | A1W1 | 1431 | J12-L2 | A2R6-1 | 1302 | A2W1 | A4E11 | 1179 | A4R6-1 |
| A1K2-X1 | 1381 | A1K1-X1 | A1W1 | 1432 | J12-L3 | A2R6-2 | 1301 | A2W4 | A4E11 | 1164 | J1-C3 |
| A1K2-X1 | 1382 | A1K3-X1 | A1W1 | 1437 | J12-W5 | | | | A4E11 | 0966 | XA3-B43 |
| A1J2-X2 | 1385 | A1K1-X2 | A1W1 | 1438 | J12-W6 | A2R7-1 | 1305 | A2W3 | | | |
| A1K2-X2 | 1386 | A1K3-X2 | A1W1 | 1439 | J12-X1 | A2R7-2 | 1306 | A2W1 | A4E12 | 1184 | A4R7-2 |
| | | | A1W1 | 0970 | XA3-A12 | | | | A4E12 | 1155 | J10-F3 |
| | | | A1W1 | 0971 | XA3-B12 | A2W1 | 1294 | A2R1-1 | | | |
| A1K3-A1 | 1399 | A1R9-2 | | | | A2W1 | 1296 | A2R2-1 | A4E13 | 1182 | A4R8-2 |
| A1K3-142 | 1392 | J12-D3 | A1W2 | 1377 | A1K1-A3 | A2W1 | 1298 | A2R3-1 | A4E13 | 1154 | J10-S3 |
| A1JC3-A2 | 1391 | J12-V5 | A1W2 | 1404 | A1R7-2 | A2W1 | 1304 | A2R4-1 | A4E13 | 1142 | J3-A1 |
| A1K3-A3 | 1398 | A1R6-2 | A1W2 | 1406 | A1R8-2 | A2W1 | 1300 | A2R5-1 | A4E13 | 1149 | J6-T6 |
| A1K3-B1 | 1401 | A1R5-2 | A1W2 | 1333 | A2K1-13 | A2W1 | 1302 | A2R6-1 | | | |
| A1K3-B2 | 1394 | J12-D4 | A1W2 | 1421 | J1-X6 | A2W1 | 1306 | A2R7-2 | A4E16 | 0940 | J1-N4 |
| A1K3-B2 | 1393 | J12-V6 | A1W2 | 1417 | J10-F6 | A2W1 | 1247 | J1-L3 | A4E16 | 0941 | J1-X5 |
| A1K3-B3 | 1400 | A1R4-2 | A1W2 | 1416 | J10-X5 | A2W1 | 1252 | J1-U2 | A4E16 | 0933 | J1-S5 |
| A1K3-X1 | 1382 | A1K2-X1 | A1W2 | 1371 | J6-X1 | A2W1 | 1249 | J1-Y5 | A4E16 | 1014 | XA3-A24 |
| A1K3-X2 | 1386 | A1K2-X2 | | | | A2W1 | 1255 | J10-W3 | | | |
| | | | A2E9 | 1250 | J1-Y2 | A2W1 | 1267 | J10-W4 | A4E2 | 1168 | A4R1-2 |
| A1R1-1 | 1408 | A1W1 | A2E9 | 1282 | J10-G5 | A2W1 | 1257 | J4-B1 | A4E2 | 1135 | J3-A7 |
| A1R1-2 | 1378 | A1K1-A1 | A2E9 | 1019 | XA3-A2 | A2W1 | 1260 | J5-R2 | A4E2 | 1143 | J6-U2 |
| | | | | | | A2W1 | 1263 | J6-X5 | | | |
| A1R2-1 | 1410 | A1W1 | A2K1-A1 | 1322 | A2K2-B2 | | | | A4E3 | 1171 | A4R2-1 |
| A1R2-2 | 1397 | A1K2-B3 | A2K1-A2 | 1334 | A5W1 | A2W2 | 1293 | A2R1-2 | A4E3 | 1138 | J3-B2 |
| | | | A2K1-A3 | 1321 | A2K2-A2 | A2W2 | 1295 | A2R2-2 | A4E3 | 1160 | J5-V6 |
| A1R3-1 | 1409 | A1W1 | | | | A2W2 | 1297 | A2R3-2 | | | |
| A1R3-2 | 1396 | A1K2-A3 | A2K1-B1 | 1333 | J12-F6 | A2W2 | 1241 | J12-C2 | A4E4 | 1170 | A4R2-2 |
| | | | A2K1-B2 | 1271 | A2W3 | A2W2 | 1242 | J12-C3 | A4E4 | 1137 | J3-B1 |
| A1R4-1 | 1413 | A1W1 | A2K1-X1 | 1326 | J12-A5 | A2W2 | 1243 | J12-J1 | A4FA | 1144 | J6-U3 |
| A1R4-2 | 1400 | A1K3-B3 | A2K1-X2 | 1331 | A2K2-X2 | A2W2 | 1244 | J12-J2 | | | |
| | | | | | | A2W2 | 1240 | J12-V2 | A4E5 | 1173 | A4R3-1 |
| A1R5-1 | 1414 | A1W1 | A2K2-A1 | 1313 | J12-F3 | A2W2 | 1588 | J6-P2 | A4E5 | 1140 | J3-A6 |
| A1R5-2 | 1401 | A1K3-B1 | A2J2-A1 | 1314 | J12-M2 | | | | A4E5 | 1161 | J5-V4 |
| | | | A2K2-A1 | 1312 | J12-W2 | | | | | | |
| A1R6-1 | 1411 | A1W1 | A2K2-A2 | 1321 | A2K1-A3 | A2W3 | 1303 | A2R4-2 | | | |
| A1R6-2 | 1398 | A1K3-A3 | A2K2-A3 | 1310 | J12-F2 | A2W3 | 1305 | A2R7-1 | A4E6 | 1172 | A4R3-2 |
| | | | A2K2-A3 | 1311 | J12-M1 | | | | | | |

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

| FROM WIRE TO | | | FROM WIRE TO | | | FROM WIRE TO | | | FROM WIRE TO | | |
|--------------|------|---------|--------------|------|---------|--------------|------|---------|--------------|------|---------|
| ID | | | ID | | | ID | | | ID | | |
| A4E6 | 1139 | J3-A5 | A5W1 | 1334 | A2K1-A2 | J1-W2 | 1122 | J6-R6 | J10-S1 | 0904 | XA3-A13 |
| A4E6 | 1145 | J6-U1 | A5W1 | 1341 | A5R1-2 | J1-W3 | 1123 | J6-S4 | J10-S2 | 0905 | XA3-A15 |
| A4E7 | 1174 | A4R4-I1 | A5W1 | 1343 | A5R2-2 | J1-W4 | 1124 | J6-T2 | J10-S3 | 1154 | A4E13 |
| A4E7 | 1166 | J1-U3 | A5W1 | 1345 | A5R3-2 | J1-W5 | 1103 | J5-K6 | J10-S4 | 0907 | XA3-A16 |
| A4E7 | 1152 | J10-H3 | A5W1 | 1347 | A5R4-2 | J1-W6 | 1115 | J5-L4 | J10-S5 | 0906 | XA3-A14 |
| A4E7 | 1147 | J6-L6 | A5W1 | 1349 | A5R5-2 | J1-X1 | 1116 | J5-M2 | J10-S6 | 1157 | A4W1 |
| A4E8 | 1175 | A4R4-2 | A5W1 | 1360 | J1-M1 | J1-X2 | 1117 | J5-S3 | J10-W1 | 1245 | A2W4 |
| A4E8 | 1353 | A5W2 | A5W1 | 1361 | J1-M4 | J1-X3 | 1118 | J5-M6 | J10-W2 | 1418 | A1W1 |
| A4E8 | 1167 | J1-/C4 | A5W1 | 1362 | J1-N3 | J1-X4 | 1119 | J5-N4 | J10-W3 | 1255 | A2W1 |
| A4E8 | 1153 | J10-Y6 | A5W1 | 1355 | J6-V2 | J1-X5 | 0941 | A4E16 | J10-W4 | 1267 | A2W1 |
| A4E9 | 1176 | A4R5-2 | A5W2 | 1352 | A1W1 | J1-X6 | 1421 | A1W2 | J10-W5 | 0938 | XA3-B41 |
| A4E9 | 1163 | J1-N5 | A5W2 | 1353 | A4E8 | J1-Y1 | 1422 | A1W1 | J10-W6 | 0958 | XA3-B33 |
| A4E9 | 1150 | J10-M1 | A5W2 | 1342 | A5R1-1 | J1-Y2 | 1250 | A2E9 | J10-X1 | 0962 | XA3-B31 |
| A4E9 | 1146 | J6-K4 | A5W2 | 1344 | A5R2-1 | J1-Y3 | 1246 | A2W4 | J10-X2 | 0937 | XA3-B42 |
| A4R1-1 | 1169 | A4E1 | A5W2 | 1346 | A5R3-1 | J1-Y5 | 1249 | A2W1 | J10-X5 | 1416 | A1W2 |
| A4R1-2 | 1168 | A4E2 | A5W2 | 1348 | A5R4-1 | J1-Y6 | 1248 | A2W4 | J10-X6 | 0954 | XA3-B22 |
| A4R2-1 | 1171 | A4E3 | A5W2 | 1348 | A5R5-1 | J1-/C1 | 0959 | XA3-B33 | J10-Y5 | 1158 | A4W1 |
| A4R2-2 | 1170 | A4E4 | A5W2 | 1350 | A5R5-1 | J1-/C2 | 0964 | XA3-A43 | J10-Y6 | 1153 | A4E8 |
| A4R3-1 | 1173 | A4E5 | A5W2 | 1357 | J1-M2 | J1-/C3 | 1164 | A4E11 | J10-Z1 | 1427 | A1E5 |
| A4R3-2 | 1172 | A4E6 | A5W2 | 1358 | J1-M5 | J1-/C4 | 1167 | A4E8 | J10-F6 | 1425 | J1-X6 |
| A4R4-1 | 1174 | A4E7 | A5W2 | 1359 | J1-N2 | J1-S5 | 0933 | A4E16 | J10-F6 | 1424 | J10-X5 |
| A4R4-2 | 1175 | A4E8 | A5W2 | 1356 | J5-P4 | J1-S5 | 0932 | J1-V3 | J10-W4 | 1273 | J10-W1 |
| A4R5-1 | 1177 | A4E11 | A5W2 | 0960 | XA3-B33 | J1-V1 | 1277 | J6-W1 | J10-G5 | 1274 | J1-Y3 |
| A4R5-2 | 1176 | A4E9 | J1-L3 | 1247 | A2W1 | J1-V1 | 1278 | J6-W3 | J10-M4 | 1280 | J10-N2 |
| A4R6-1 | 1179 | A4E11 | J1-M1 | 1360 | A5W1 | J1-V3 | 0932 | J1-S5 | J10-M4 | 1281 | J4-A1 |
| A4R6-2 | 1178 | A4E10 | J1-M2 | 1357 | A5W2 | J1-V3 | 0931 | J1-V4 | J10-N2 | 1280 | J10-M4 |
| A4R7-1 | 1181 | A4W1 | J1-M3 | 1355 | XA3-A32 | J1-V4 | 0931 | J1-V3 | J10-N2 | 1279 | J6-W3 |
| A4R7-1 | 1181 | A4W2 | J1-M4 | 1361 | A5W1 | J1-X6 | 1426 | A1E5 | J10-W1 | 1273 | J10-G5 |
| A4R7-2 | 1184 | A4E12 | J1-M5 | 1358 | A5W2 | J1-X6 | 1425 | J10-F6 | J10-X5 | 1424 | J10-F6 |
| A4R8-1 | 1183 | A4W1 | J1-N2 | 1359 | A5W2 | J1-Y3 | 1275 | J1-Y6 | J11-A | 0885 | J11-H |
| A4R8-2 | 1182 | A4E13 | J1-N3 | 1362 | A5W1 | J1-Y3 | 1274 | J10-W4 | J11-B | 0886 | J11-G |
| A4W1 | 1181 | A4R7-1 | J1-N4 | 0940 | A4E16 | J1-Y6 | 1275 | J1-Y3 | J11-C | 0887 | J11-F |
| A4W1 | 1183 | A4R8-1 | J1-N5 | 1163 | A4E9 | J1-Y6 | 1276 | J6-W1 | J11-D | 0889 | J11-E |
| A4W1 | 1156 | J10-A1 | J1-N6 | 1165 | A4E10 | J10-A1 | 1156 | A4W2 | J11-D | 0888 | J11-J |
| A4W1 | 1157 | J10-S6 | J1-P3 | 0920 | XA3-A40 | J10-A2 | 1419 | J10-F6 | J11-E | 0889 | J11-D |
| A4W1 | 1158 | J10-Y5 | J1-P4 | 0916 | XA3-B37 | J10-A6 | 0917 | XA3-B38 | J11-F | 0887 | J11-C |
| A4W1 | 1141 | J3-A2 | J1-P5 | 0914 | XA3-A36 | J10-B1 | 0919 | XA3-A40 | J11-G | 0886 | J11-B |
| A4W1 | 1162 | J5-V3 | J1-P6 | 0918 | XA3-B38 | J10-B2 | 0923 | XA3-B19 | J11-H | 0885 | J11-A |
| A4W2 | 1181 | A4R7-I | J1-R1 | 0910 | XA3-A34 | J10-B3 | 0921 | XA3-B18 | J11-J | 0888 | J11-D |
| A5R1-1 | 1342 | A5W2 | J1-R2 | 0912 | XA3-A35 | J10-B4 | 0909 | XA3-A34 | J12-A1 | 1375 | A1K1-A2 |
| A5R1-2 | 1341 | A5W1 | J1-R3 | 0951 | XA3-A27 | J10-B5 | 0915 | XA3-B37 | J12-A3 | 1324 | A2K2-X1 |
| A5R2-1 | 1344 | A5W2 | J1-R4 | 0953 | XA3-A26 | J10-B6 | 0927 | XA3-B21 | J12-A4 | 1328 | A2K2-X2 |
| A5R2-2 | 1343 | A5W1 | J1-R5 | 0943 | XA3-A25 | J10-C4 | 0925 | XA3-B20 | J12-A5 | 1326 | A2K1-X1 |
| A5R3-1 | 1346 | A5W2 | J1-R6 | 0945 | XA3-B30 | J10-D1 | 0911 | XA3-A35 | J12-B4 | 0968 | XA3-A11 |
| A5R3-2 | 1345 | A5W1 | J1-S1 | 0949 | XA3-B28 | J10-D2 | 0913 | XA3-A36 | J12-C2 | 1241 | A2W2 |
| A5R4-1 | 1348 | A5W2 | J1-S2 | 0956 | XA3-B17 | J10-D3 | 0946 | XA3-B29 | J12-C3 | 1242 | A2W2 |
| A5R4-2 | 1347 | A5W1 | J1-S3 | 0947 | XA3-B29 | J10-D5 | 0942 | XA3-A25 | J12-D1 | 1387 | A1K2-A2 |
| A5R5-1 | 1350 | A5W2 | J1-S4 | 1101 | J5-W1 | J10-D6 | 0944 | XA3-B30 | J12-D2 | 1389 | A1K2-B2 |
| A5R5-2 | 1349 | A5W1 | J1-S5 | 0930 | XA3-B23 | J10-E1 | 0950 | XA3-A27 | J12-D3 | 1392 | A1K3-A2 |
| | | | J1-S6 | 1109 | J5-F2 | J10-E4 | 0908 | XA3-B32 | J12-D4 | 1394 | A1K3-B2 |
| | | | J1-T1 | 1110 | J5-F6 | J10-E5 | 0952 | XA3-A26 | J12-D5 | 1433 | A1W1 |
| | | | J1-T2 | 1111 | J5-G4 | J10-E6 | 0935 | XA3-A48 | J12-D6 | 1434 | A1W1 |
| | | | J1-T3 | 1112 | J5-H2 | J10-F1 | 0948 | XA3-B28 | J12-E1 | 1435 | A1W1 |
| | | | J1-T4 | 1113 | J5-H6 | J10-F3 | 1155 | A4E12 | J12-E3 | 1429 | A1W1 |
| | | | J1-T6 | 1102 | J5-J4 | J10-F6 | 1417 | A1W2 | J12-E4 | 1430 | A1W1 |
| | | | J1-U2 | 1252 | A2W1 | J10-F6 | 1419 | J10-A2 | J12-F2 | 1310 | A2K2-A3 |
| | | | J1-U3 | 1166 | A4E7 | J10-F6 | 1419 | J10-A2 | J12-F3 | 1313 | A2K2-A1 |
| | | | J1-U4 | 1125 | J6-P3 | J10-04 | 1268 | J11-M5 | J12-F4 | 1319 | A2K2-B1 |
| | | | J1-U5 | 1126 | J6P4 | J10-G5 | 1266 | A2W4 | J12-F5 | 1317 | A2K2-B3 |
| | | | J1-U6 | 1114 | J5-K2 | J10-G5 | 1269 | J10-G4 | J12-F6 | 1376 | A1K1-A2 |
| | | | J1-V1 | 1251 | A2W3 | J10-H3 | 1152 | A4E7 | J12-J1 | 1243 | A2W2 |
| | | | J1-V3 | 0928 | XA3-B21 | J10-K2 | 0929 | XA3-B23 | J12-J2 | 1244 | A2W2 |
| | | | J1-V4 | 0926 | XA3-B20 | J10-K6 | 0936 | XA3-B48 | J12-L2 | 1431 | A1W1 |
| | | | J1-V5 | 0922 | XA3-B18 | J10-L6 | 1151 | A4E10 | J12-L3 | 1432 | A1W1 |
| | | | J1-V6 | 0924 | XA3-B19 | J10-MI | 1150 | A4E9 | | | |
| | | | J1-W1 | 1121 | J6-R2 | J10-M4 | 1254 | A2W3 | | | |
| | | | | | | J10-N2 | 1253 | A2W3 | | | |

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

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

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

| FROM WIRE TO | | | FROM WIRE TO | | | FROM WIRE TO | | | FROM WIRE TO | | |
|--------------|------|---------|--------------|------|--------|--------------|------|--------|--------------|------|---------|
| ID | | | ID | | | ID | | | ID | | |
| J13-X6 | 1504 | J13-YI | J14-45 | 0710 | J1446 | J16-/R | 0850 | J16-U | J2-E6 | 1223 | J5-P1 |
| | | | J1446 | 0710 | J1445 | J16-/S | 0853 | J16-W | J2-E7 | 1048 | J21-A7 |
| J13-Y1 | 1504 | J13-X6 | J1447 | 0711 | J14-48 | J16-/T | 0854 | J16-KK | J2-ES | 1050 | J21-A8 |
| J13-Y1 | 0784 | J13-Y2 | J1448 | 0711 | J1447 | J16-/U | 0848 | J16-R | J2-F1 | 1052 | J21-B1 |
| J13-Y2 | 0784 | J13-Y1 | J1449 | 0712 | J14-50 | J16-/V | 0836 | J16-Z | J2-F2 | 1054 | J21-B2 |
| J13-Y2 | 1505 | J13-Y3 | J14-50 | 0712 | J14-49 | J16-/W | 0847 | J16-X | J2-F7 | 1056 | J21-B3 |
| J13-Y3 | 1505 | J13-Y2 | J14-51 | 0713 | J14-52 | J16-/X | 0835 | J16-C | J2-F8 | 1058 | J21-B4 |
| J13-Y3 | 0785 | J13-Y4 | J14-52 | 0713 | J14-51 | J16-/Y | 0837 | J16-Z | J2-G1 | 1060 | J21-B5 |
| J13-Y4 | 0785 | J13-Y3 | J14-53 | 0714 | J14-54 | J16-/Z | 0837 | J16-Y | J2-G2 | 1062 | J21-B6 |
| J13-Z3 | 0786 | J13-Z4 | J14-54 | 0714 | J14-53 | J16-AA | 0845 | J16-JJ | J2-07 | 1064 | J21-B7 |
| J13-Z4 | 0786 | J13-Z3 | J14-57 | 0715 | J14-58 | J16-BB | 0855 | J16-/M | J2-G8 | 1006 | J21-B8 |
| J13-Z5 | 0787 | J13-Z6 | J14-58 | 0715 | J14-57 | J16-CC | 0857 | J16-N | J2-H1 | 1068 | J21-C1 |
| J13-Z6 | 0787 | J13-Z5 | J14-59 | 0716 | J14-60 | J16-DD | 0844 | J16-LL | J2-H2 | 1070 | J21-C2 |
| J13-/B6 | 0788 | J13-/C6 | J1440 | 0716 | J14-59 | J16-EE | 0842 | J16-FF | J2-H7 | 1073 | J21-C3 |
| J13-/C1 | 0790 | J13-/C3 | J14-61 | 0717 | J14-62 | J16-FF | 0842 | J16-EE | J2-H8 | 1075 | J21-C4 |
| J13-/C1 | 0791 | J13-/C4 | J14-62 | 0717 | J14-61 | J16-GG | 0839 | J16-IB | J2-J1 | 1077 | J21-C5 |
| J13-/C1 | 0792 | J13-/C5 | J14-63 | 0718 | J14-64 | J16-HH | 0840 | J16-H | J2-J2 | 1079 | J21-C6 |
| J13-/C2 | 0789 | J13-/C6 | J14-64 | 0718 | J14-63 | J16-JJ | 0845 | J16AA | J2-J7 | 1029 | XA3-B1 |
| J13-/C3 | 0790 | J13-/C1 | J14-65 | 0719 | J14-66 | J16-KK | 0854 | J16-/T | J2-J8 | 1031 | XA3-B2 |
| J13-/C4 | 0791 | J13-/C1 | J14-66 | 0719 | J14-65 | J16-LL | 0844 | J16-DD | J2-K1 | 1033 | XA3-B3 |
| J13-/C5 | 0792 | J13-/C1 | | | | | | | J2-K2 | 1035 | XA3-B4 |
| J13-/C6 | 0788 | J13-/B6 | J15-A | 0794 | J15-B | J17-1 | 0720 | J18-1 | J2-K3 | 1037 | XA3-B5 |
| J13-/C6 | 0789 | J13-/C2 | J15-B | 0794 | J15-A | | | | J2-K4 | 1039 | XA3-B6 |
| | | | J15-C | 0797 | J15-D | J18-1 | 0720 | J17-1 | J2-K5 | 1041 | XA3-B7 |
| J14-1 | 0688 | J14-2 | J15-D | 0797 | J15-C | | | | J2-K6 | 1043 | XA3-B8 |
| J14-2 | 0688 | J14-1 | J15-E | 0796 | J15-J | J19-1 | 0721 | J20-1 | J2-K7 | 1045 | XA3-A10 |
| J14-3 | 0689 | J144 | J15-F | 0793 | J15-G | | | | J2-L1 | 1222 | J23-B3 |
| J14-4 | 0689 | J14-3 | J15-G | 0793 | J15-F | J2-A1 | 1560 | J5-A1 | J2-L2 | 1089 | J21-C7 |
| J14-5 | 0690 | J14-6 | J15-H | 0795 | J15-K | J2-A2 | 1561 | J5-A2 | | | |
| J14-6 | 0690 | J14-5 | J15-J | 0796 | J15-E | J2-A3 | 1562 | J5-A3 | J2-L3 | 1022 | J5-F4 |
| J14-7 | 0691 | J14-8 | J15-K | 0795 | J15-H | J2-A4 | 1563 | J5-A4 | J2-L3 | 1023 | J6-A2 |
| J14-8 | 0691 | J14-7 | | | | J2-A5 | 1564 | J5-A5 | J2-L4 | 1024 | J5-F5 |
| J14-9 | 0692 | J14-10 | J16-A | 0851 | J16-V | J2-A6 | 1565 | J5-A6 | J2-L4 | 1025 | J6-A3 |
| J14-10 | 0692 | J14-9 | J16-B | 0852 | J16-T | J2-A7 | 1566 | J5-B1 | J2-B5 | 1580 | J2-C5 |
| J14-11 | 0693 | J14-12 | J16-C | 0835 | J16-/X | J2-A8 | 1567 | J5-B2 | J2-B6 | 1583 | J2-C6 |
| J14-12 | 0693 | J14-11 | J16-D | 0831 | J16-/E | J2-B1 | 1568 | J5-B3 | | | |
| J14-13 | 0694 | J14-14 | J16-E | 0832 | J16-/F | J2-B2 | 1569 | J5-B4 | J2-E7 | 1529 | J5-C4 |
| J14-14 | 0694 | J14-13 | J16-F | 0833 | J16-/G | J2-B3 | 1570 | J5-B5 | J2-E7 | 1530 | J5-C6 |
| J14-15 | 0695 | J14-16 | J16-G | 0834 | J16-/H | J2-B4 | 1571 | J5-B6 | J2-F1 | 1531 | J5-C6 |
| J14-16 | 0695 | J14-15 | J16-H | 0840 | J16-HH | J2-B5 | 1578 | J5-C1 | J2-F1 | 1532 | J5-D2 |
| J14-17 | 0669 | J14-18 | J16-I | 0841 | J16-K | J2-B6 | 1581 | J5-C2 | J2-F7 | 1533 | J5-D2 |
| J14-18 | 0696 | J14-17 | J16-K | 0841 | J16-J | J2-B8 | 1573 | J5W5 | J2-F7 | 1534 | J5-D4 |
| J14-19 | 0697 | J14-20 | J16-L | 0843 | J16-/D | J2-C1 | 1574 | J5-W6 | J2-G1 | 1536 | J2-D6 |
| J14-20 | 0697 | J14-19 | J16-M | 0856 | J16-/N | J2-C2 | 1575 | J5-X1 | J2-G1 | 1535 | J5-D4 |
| J14-21 | 0698 | J14-22 | J16-N | 0857 | J16-CC | J2-C3 | 1576 | J5-X2 | J2-G7 | 1534 | J2-G1 |
| J14-22 | 0698 | J14-21 | J16-P | 0838 | J16-Y | J2-C4 | 1577 | J5-P2 | J2-G7 | 1537 | J5-D6 |
| J14-23 | 0699 | J14-24 | J16-R | 0848 | J16-/U | J2-C5 | 1580 | J2-B5 | J2-H1 | 1538 | J5-T3 |
| J14-24 | 0699 | J14-23 | J16-S | 0849 | J16-/Q | J2-C6 | 1583 | J2-B6 | J2-H1 | 1539 | J5-E2 |
| J14-25 | 0700 | J14-26 | J16-T | 0852 | J16-B | J2-C7 | 1572 | J5-E4 | J2-H7 | 1540 | J5-T5 |
| J14-26 | 0700 | J14-25 | J16-U | 0850 | J16-/R | J2-C8 | 1199 | J23-C5 | J2-H7 | 1541 | J5-T3 |
| J14-27 | 0701 | J14-28 | J16-V | 0851 | J16-A | J2-D1 | 1200 | J23-C6 | J2-J1 | 1543 | J5-T5 |
| J14-28 | 0701 | J14-27 | J16-W | 0853 | J16-/S | J2-D1 | 1201 | J6-B2 | J2-G7 | | J5-E2 |
| J14-29 | 0702 | J14-30 | J16-X | 0847 | J16-/W | J2-D2 | 1204 | J23-E6 | J2-J1 | | J5-N2 |
| J14-30 | 0702 | J14-29 | J16-Y | 0838 | J16-P | J2-D3 | 1205 | J23-F1 | J20-1 | 0721 | J19-1 |
| J14-31 | 0703 | J14-32 | J16-Z | 0836 | J16-/V | J2-D4 | 1191 | J23-J3 | | | |
| J14-32 | 0703 | J14-31 | J16-IA | 0846 | J16-K | J2-D4 | 1192 | J23-J4 | J21-AI | 1511 | W1 |
| J14-33 | 0704 | J14-34 | J16-/B | 0839 | J16-GG | J2-D4 | 1193 | J23-J5 | J21-A2 | 1512 | W1 |
| J14-34 | 0704 | J14-33 | J16-/C | 0858 | J16-/P | J2-D5 | 1208 | J23-D5 | J21-A3 | 1513 | W1 |
| J14-35 | 0705 | J14-36 | J16-/D | 0843 | J16-L | J2-D6 | 1209 | J23-D6 | J21-A4 | 1514 | W1 |
| J14-36 | 0705 | J14-35 | J16-/E | 0831 | J16-D | J2-D7 | 1527 | WI | J21-A7 | 1048 | J2-E7 |
| J14-37 | 0706 | J14-38 | J16-IF | 0832 | J16-E | J2-D8 | 1528 | WI | J21-A7 | 1047 | J5-C4 |
| J14-38 | 0706 | J14-37 | J16-/G | 0833 | J16-F | J2-E1 | 1521 | W1 | J21-A8 | 1050 | J2-E8 |
| J14-39 | 0707 | J1440 | J16-/H | 0834 | J16-G | J2-E2 | 1522 | W1 | J21-A8 | 1049 | J5-C5 |
| J1440 | 0707 | J14-39 | J16-/K | 0846 | J16-A | J2-E3 | 1232 | J21-D1 | J21-B1 | 1052 | J2-F1 |
| J14-41 | 0708 | J14-42 | J16-/M | 0855 | J16-BB | J2-E4 | 1233 | J21-D2 | J21-B1 | 1051 | J5-C6 |
| J14-42 | 0708 | J14-41 | J16-/N | 0856 | J16-M | J2-E4 | 1234 | J21-D3 | J21-B2 | 1054 | J2-F2 |
| J14-43 | 0709 | J14-44 | J16-/P | 0858 | J16-/C | J2-E3 | 1219 | J23-B2 | J21-B2 | 1053 | J5-D1 |
| J14-44 | 0709 | J14-43 | J16-/Q | 0849 | J16-S | J2-E6 | 1220 | J23-B1 | J21-B3 | 1056 | J2-F7 |

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

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

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

| FROM | WIRE ID | TO | FROM | WIRE ID | TO | FROM | WIRE ID | TO | FROM | WIRE ID | TO |
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| J25-B2 | 0121 | J30-66 | J25-P5 | 0177 | J36-48 | J26-E6 | 0301 | J33-Y | J26-T2 | 0280 | J40-29 |
| J25-B3 | 0201 | J34-6 | J25-P6 | 0178 | J37-48 | J26-F1 | 0302 | J31-39 | J26-T3 | 0340 | J35-52 |
| J25-B4 | 0202 | J32-6 | J25-R1 | 0179 | J38-48 | J26-F2 | 0303 | J35-39 | J26-T4 | 0281 | J40-30 |
| J25-B5 | 0143 | J39-34 | J25-R2 | 0180 | J39-48 | J26-F3 | 0304 | J34-39 | J26-T5 | 0341 | J34-52 |
| J25-B6 | 0144 | J38-34 | J25-R3 | 0181 | J36-57 | J26-F4 | 0305 | J32-39 | J26-T6 | 0282 | J40-31 |
| J25-C1 | 0145 | J37-34 | J25-R4 | 0182 | J37-57 | J26-F5 | 0306 | J33-J | J26-U1 | 0342 | J32-34 |
| J25-C2 | 0146 | J36-34 | J25-R5 | 0183 | J38-57 | J26-F6 | 0307 | J33-B | J26-U2 | 0283 | J40-32 |
| J25-D1 | 0203 | J33-FF | J25-R6 | 0184 | J39-57 | J26-G2 | 0308 | J31-33 | J26-U3 | 0343 | J34-34 |
| J25-D2 | 0122 | J30-29 | J25-S1 | 0222 | J33-Y | J26-G3 | 0309 | J35-33 | J26-U4 | 0284 | J40-33 |
| J25-D3 | 0123 | J30-30 | J25-S2 | 0185 | J36-58 | J26-G4 | 0310 | J34-33 | J26-U5 | 0344 | J32-52 |
| J25-D4 | 0124 | J30-31 | J25-S3 | 0186 | J37-58 | J26-G5 | 0311 | J32-33 | J26-U6 | 0285 | J40-34 |
| J25-D5 | 0204 | J31-6 | J25-S4 | 0187 | J38-58 | J26-G6 | 0312 | J33-GG | J26-V1 | 0345 | J31-34 |
| J25-D6 | 0205 | J35-6 | J25-S5 | 0188 | J39-58 | J26-H1 | 0312 | J31-42 | J26-V2 | 0286 | J40-35 |
| J25-E4 | 0147 | J38-39 | J25-S6 | 0189 | J36-51 | J26-H2 | 0314 | J35-42 | J26-V3 | 0346 | J35-34 |
| J25-E5 | 0206 | J35-36 | J25-T1 | 0190 | J37-51 | J26-H3 | 0315 | J34-42 | J26-V4 | 0287 | J40-36 |
| J25-E6 | 0148 | J38-45 | J25-T2 | 0191 | J38-51 | J26-H4 | 0316 | J32-42 | J26-V5 | 0347 | J33-E |
| J25-F1 | 0207 | J35-37 | J25-T3 | 0192 | J39-51 | J26-H5 | 0317 | J31-53 | J26-V6 | 0288 | J40-37 |
| J25-F2 | 0208 | J34-60 | J25-T4 | 0193 | J39-61 | J26-H6 | 0254 | J39-60 | J26-W1 | 0348 | J33-D |
| J25-F3 | 0149 | J37-2 | J25-T5 | 0133 | J30-32 | J26-J1 | 0255 | J40-65 | J26-W3 | 0289 | J40-38 |
| J25-F4 | 0150 | J37-36 | J25-T6 | 0134 | J30-67 | J26-J2 | 0318 | J35-53 | J26-W4 | 0349 | J33-E |
| J25-F5 | 0209 | J34-62 | J25-U1 | 0223 | J31-1 | J26-J3 | 0256 | J38-60 | J26-W5 | 0290 | J40-39 |
| J25-F6 | 0210 | J34-66 | J25-U2 | 0224 | J314 | J26-J4 | 0257 | J40-63 | J26-W6 | 0350 | J33-F |
| J25-G2 | 0151 | J37-5 | J25-U3 | 0225 | J31-9 | J26-J5 | 0319 | J34-53 | J26-X1 | 0291 | J40-40 |
| J25-G3 | 0152 | J37-40 | J25-U4 | 0194 | J38-61 | J26-J6 | 0258 | J37-60 | J26-X2 | 0351 | J33-G |
| J25-G4 | 0153 | J37-41 | J25-U5 | 0135 | J30-33 | J26-K1 | 0259 | J40-69 | J26-X3 | 0292 | J40-41 |
| J25-05 | 0154 | J37-39 | J25-U6 | 0136 | J30-68 | J26-K2 | 0320 | J32-53 | J26-X4 | 0352 | J33-G |
| J25-G6 | 0211 | J34-36 | J25-V1 | 0226 | J35-1 | J26-K3 | 0260 | J36-60 | J26-X5 | 0293 | J40-42 |
| J25-H1 | 0155 | J37-45 | J25-V2 | 0227 | J35-4 | J26-K4 | 0261 | J40-68 | J26-X6 | 0353 | J33-H |
| J25-H2 | 0212 | J34-37 | J25-V3 | 0228 | J35-9 | J26-K5 | 0321 | J33-D | J26-Y1 | 0294 | J40-43 |
| J25-H3 | 0156 | J37-70 | J25-V4 | 0195 | J37-61 | J26-K6 | 0240 | J30-51 | J26-Y2 | 0354 | J33-Q |
| J25-H4 | 0213 | J34-41 | J25-V5 | 0137 | J30-35 | J26-L1 | 0241 | J30-16 | | | |
| J25-H5 | 0214 | J32-60 | J25-V6 | 0138 | J30-70 | J26-L2 | 0262 | J40-3 | J27-A1 | 0356 | J40-44 |
| J25-H6 | 0157 | J36-2 | J25-W1 | 0229 | J34-1 | J26-L3 | 0322 | J35-57 | J27-A2 | 0415 | J33-R |
| J25-J1 | 0158 | J36-36 | J25-W3 | 0230 | J34-4 | J26-L4 | 0263 | J40-4 | J27-A4 | 0357 | J40-45 |
| J25-J2 | 0215 | J32-62 | J25-W4 | 0231 | J34-9 | J26-L5 | 0323 | J33-F | J27-A5 | 0416 | J33-T |
| J25-J3 | 0216 | J32-66 | J25-W5 | 0196 | J36-61 | J26-L6 | 0264 | J40-5 | J27-A6 | 0358 | J40-46 |
| J25-J4 | 0159 | J36-5 | J25-W6 | 0232 | J32-1 | J26-M1 | 0324 | J31-57 | J27-B1 | 0417 | J33-S |
| J25-J5 | 0160 | J36-40 | J25-X1 | 0233 | J32-4 | J26-M2 | 0265 | J40-7 | J27-B2 | 0359 | J40-47 |
| J25-J6 | 0161 | J36-41 | J25-X2 | 0234 | J32-9 | J26-M3 | 0325 | J34-57 | J27-B3 | 0418 | J33-U |
| J25-K1 | 0162 | J26-39 | J25-X3 | 0139 | J30-34 | J26-M4 | 0266 | J40-9 | J27-B4 | 0360 | J40-48 |
| J25-K2 | 0217 | J32-36 | J25-X4 | 0140 | J30-69 | J26-M5 | 0326 | J33-S | J27-B5 | 0419 | J33-V |
| J25-K3 | 0125 | J30-14 | J25-X5 | 0197 | J40-1 | J26-M6 | 0267 | J40-10 | J27-B6 | 0361 | J40-49 |
| J25-K4 | 0126 | J30-50 | J25-X6 | 0235 | J33-R | J26-N1 | 0327 | J33-N | J27-C1 | 0420 | J33-W |
| J25-K5 | 0127 | J30-15 | J25-Y1 | 0198 | J40-2 | J26-N2 | 0268 | J40-11I | J27-C2 | 0362 | J40-50 |
| J25-K6 | 0128 | J30-49 | J25-Y2 | 0236 | J32-57 | J26-N3 | 0328 | J33-1P | J27-D1 | 0421 | J33-T |
| J25-L1 | 0163 | J36-42 | | | | J26-N4 | 0269 | J40-12 | J27-D2 | 0363 | J40-51 |
| J25-L2 | 0164 | J36-43 | J26-A1 | 0237 | J30-12 | J26-N5 | 0329 | J33-BB | J27-D3 | 0422 | J33-X |
| J25-L3 | 0165 | J36-44 | J26-A2 | 0242 | J39-26 | J26-N6 | 0270 | J40-16 | J27-D4 | 0364 | J40-53 |
| J25-LA | 0166 | J37-44 | J26-A4 | 0243 | J38-26 | J26-P1 | 0330 | J33-M | J27-D5 | 0423 | J33-U |
| J25-L5 | 0167 | J37-43 | J26-A5 | 0244 | J37-26 | J26-P2 | 0271 | J40-18 | J27-D6 | 0365 | J40-54 |
| J25-L6 | 0168 | J37-42 | J26-A6 | 0245 | J36-26 | J26-P3 | 0331 | J32-51 | J27-E4 | 0424 | J31-32 |
| J25-M1 | 0169 | J38-44 | J26-B1 | 0238 | J30-20 | J26-P4 | 0272 | J40-19 | J27-E5 | 0366 | J40-55 |
| J25-M2 | J170 | J38-43 | J26-B2 | 0246 | J39-35 | J26-P5 | 0332 | J34-51 | J27-E6 | 0425 | J35-32 |
| J25-M3 | 0171 | J38-42 | J26-B3 | 0247 | J38-35 | J26-P6 | 0273 | J40-20 | J27-F1 | 0367 | J40-56 |
| J25-M4 | 0172 | J39-44 | J26-B4 | 0248 | J37-35 | J26-R1 | 0333 | J35-51 | J27-F2 | 0426 | J34-32 |
| J25-M5 | 0173 | J39-43 | J26-B5 | 0249 | J36-35 | J26-R2 | 0274 | J40-21 | J27-F3 | 0368 | J40-57 |
| J25-M6 | 0174 | J39-42 | J26-B6 | 0239 | J30-19 | J26-R3 | 0334 | J31-51 | J27-F4 | 0427 | J32-32 |
| J25-N1 | 0175 | J36-45 | J26-C1 | 0250 | J39-69 | J26-R4 | 0275 | J40-23 | J27-F5 | 0369 | J40-58 |
| J25-N2 | 0218 | J32-37 | J26-C2 | 0251 | J38-69 | J26-R5 | 0335 | J34-58 | J27-F6 | 0428 | J33-B |
| J25-N3 | 0176 | J36-70 | J26-D1 | 0252 | J37-69 | J26-R6 | 0276 | J40-24 | J27-G2 | 0370 | J40-59 |
| J25-N4 | 0219 | J32-41 | J26-D2 | 0253 | J36-69 | J26-S1 | 0336 | J32-58 | J27-G3 | 0429 | J33-A |
| J25-N5 | 0220 | J33-AA | J26-D3 | 0295 | J33-P | J26-S2 | 0277 | J40-25 | J27-G4 | 0371 | J40-60 |
| J25-N6 | 0129 | J30-52 | J26-D4 | 02% | J31-38 | J26-S3 | 0337 | J35-58 | J27-G5 | 0430 | J33-W |
| J25-P1 | 0130 | J30-53 | J26-D5 | 0291 | J35-38 | J26-S4 | 0278 | J40-26 | J27-G6 | 0372 | J40-61 |
| J25-P2 | 0131 | J30-17 | J26-D6 | 0298 | J34-38 | J26-S5 | 0338 | J31-58 | J27-H1 | 0431 | J33-A |
| J25-P3 | 0132 | J30-18 | J26-E4 | 0299 | J32-38 | J26-S6 | 0279 | J40-28 | J27-H2 | 0373 | J40-62 |
| J25-P4 | 0221 | J33-Z | J26-E5 | 0300 | J33-H | J26-T1 | 0339 | J31-52 | J27-H3 | 0432 | J33-CC |

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

| FROM WIRE TO ID | FROM WIRE TO ID | FROM WIRE TO ID | FROM WIRE TO ID |
|--------------------|--------------------|--------------------|--------------------|
| J27-H4 0374 | J40-64 | J27-V5 0465 | J31-30 |
| J27-H5 0433 | J33-KK | J27-V6 0408 | J39-65 |
| J27-H6 0375 | J40-67 | J27-W1 0466 | J31-31 |
| J27-J1 0434 | J33-M | J27-W3 0409 | J39-66 |
| J27-J2 0376 | J40-70 | J27-W4 0467 | J31-12 |
| J27-J3 0435 | J33-N | J27-W5 0410 | J39-67 |
| J27-J4 0377 | J39-4 | J27-W6 0468 | J31-11 |
| J27-J5 0436 | J33-C | J27-X1 0411 | J384 |
| J27-J6 0378 | J39-6 | J27-X2 0469 | J33-X |
| J27-K1 0437 | J31-16 | J27-X3 0412 | J38-6 |
| J27-K2 0379 | J39-7 | J27-X4 0470 | J35-16 |
| J27-K3 0438 | J31-13 | J27-X5 0413 | J38-7 |
| J27-K4 0380 | J39-8 | J27-X6 0471 | J35-13 |
| J27-K5 0439 | J3146 | J27-Y1 0414 | J38-8 |
| J27-K6 0381 | J39-9 | J27-Y2 0472 | J35-46 |
| J27-L1 0440 | J31-45 | | |
| J27-L2 0382 | J39-10 | J28-AI 0475 | J38-9 |
| J27-L3 0441 | J31-17 | J28-A2 0534 | J35-45 |
| J27-L4 0383 | J39-11 | J28-A4 0476 | J38-10 |
| J27-L5 0442 | J31-14 | J28-A5 0535 | J35-17 |
| J27-L6 0384 | J39-12 | J28-A6 0477 | J38-11 |
| J27-M1 0443 | J31-43 | J28-B1 0536 | J35-14 |
| J27-M2 0385 | J39-16 | J28-B2 0478 | J38-12 |
| J27-M3 0444 | J31-44 | J28-B3 0537 | J35-43 |
| J27-M4 0386 | J39-18 | J28-B4 0479 | J38-16 |
| J27-M5 0445 | J31-40 | J28-B5 0538 | J35-44 |
| J27-M6 0387 | J39-19 | J28-B6 0480 | J38-18 |
| J27-N1 0446 | J31-18 | J28-C1 0539 | J35-40 |
| J27-N2 0388 | J39-20 | J28-C2 0481 | J38-19 |
| J27-N3 0447 | J31-15 | J28-D1 0540 | J35-18 |
| J27-N4 0389 | J39-21 | J28-D2 0482 | J38-20 |
| J27-N5 0448 | J31-25 | J28-D3 0541 | J35-15 |
| J27-N6 0390 | J39-23 | J28-D4 0483 | J38-21 |
| J27-P1 0449 | J31-21 | J28-D5 0542 | J35-25 |
| J27-P2 0391 | J39-24 | J28-D6 0484 | J38-23 |
| J27-P3 0450 | J31-22 | J28-E4 0543 | J35-21 |
| J27-P4 0392 | J39-25 | J28-E5 0485 | J38-24 |
| J27-P5 0451 | J31-19 | J28-E6 0544 | J35-22 |
| J27-P6 0393 | J39-28 | J28-FI 0486 | J38-25 |
| J27-R1 0452 | J31-3 | J28-F2 0545 | J35-19 |
| J27-R2 0394 | J39-29 | J28-F3 0487 | J38-28 |
| J27-R3 0453 | J31-20 | J28-F4 0546 | J35-3 |
| J27-R4 0395 | J39-30 | J28-F5 0488 | J38-29 |
| J27-R5 0454 | J31-24 | J28-F6 0547 | J35-20 |
| J27-R6 0396 | J39-31 | J28-G2 0489 | J38-30 |
| J27-S1 0455 | J31-23 | J28-G3 0548 | J35-24 |
| J27-S2 0397 | J39-32 | J28-G4 0490 | J38-31 |
| J27-S3 0456 | J31-35 | J28-G5 0549 | J35-23 |
| J27-S4 0398 | J39-33 | J28-G6 0491 | J38-32 |
| J27-S5 0355 | J30-61 | J28-H1 0550 | J35-35 |
| J27-S6 0399 | J39-50 | J28-H2 0492 | J38-33 |
| J27-T1 0457 | J31-50 | J28-H3 0473 | J30-60 |
| J27-T2 0400 | J39-53 | J28-H4 0493 | J38-50 |
| J27-T3 0458 | J31-47 | J28-H5 0551 | J35-50 |
| J27-T4 0401 | J39-54 | J28-H6 0494 | J38-53 |
| J27-T5 0459 | J31-48 | J28-J1 0552 | J35-47 |
| J27-T6 0402 | J39-55 | J28-J2 0495 | J38-54 |
| J27-U1 0460 | J31-26 | J28-J3 0553 | J35-48 |
| J27-U2 0403 | J39-56 | J28-J4 0496 | J38-55 |
| J27-U3 0461 | J31-27 | J28-J5 0554 | J35-26 |
| J27-U4 0404 | J39-59 | J28-J6 1554 | J38-56 |
| J27-U5 0462 | J31-49 | J28-K1 0555 | J35-27 |
| J27-U6 0405 | J39-62 | J28-K2 0498 | J38-59 |
| J27-V1 0463 | J31-28 | J28-K3 0556 | J35-49 |
| J27-V2 0406 | J39-63 | J28-K4 0499 | J38-62 |
| J27-V3 0464 | J31-29 | J28-K5 0557 | J35-28 |
| J27-V4 0407 | J39-64 | 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 | J34-35 |
| | | 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 059% | 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-F1 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 0611 | 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 TO | | | FROM WIRE TO | | | FROM WIRE TO | | | FROM WIRE TO | | |
|--------------|------|--------|--------------|------|--------|--------------|------|--------|--------------|------|--------|
| ID | | | ID | | | ID | | | ID | | |
| J29-N5 | 0666 | J32-29 | J30-33 | 0135 | J25-U5 | J31-45 | 0440 | J27-L1 | J32-47 | 0661 | J29-M1 |
| J29-N6 | 0629 | J36-64 | J30-34 | 0139 | J25-X3 | J31-46 | 0439 | J27-K5 | J32-48 | 0662 | J29-M3 |
| J29-P1 | 0667 | J32-30 | J30-35 | 0137 | J25-V5 | J31-47 | 0548 | J27-T3 | J32-49 | 0671 | J29-R3 |
| J29-P2 | 0630 | J36-65 | J30-36 | 0005 | J24-G3 | J31-48 | 0459 | J27-T5 | J32-50 | 0660 | J29-L5 |
| J29-P3 | 0668 | J32-31 | J30-49 | 0128 | J25-K6 | J31-49 | 0462 | J27-U5 | J32-51 | 0331 | J26-P3 |
| J29-P4 | 0631 | J36-66 | J30-50 | 0126 | J25-K4 | J31-50 | 0457 | J27-T1 | J32-52 | 0344 | J26-U5 |
| J29-P5 | 0669 | J32-12 | J30-51 | 0240 | J26-K6 | J31-51 | 0334 | J26-R3 | J32-53 | 0320 | J26-K2 |
| J29-P6 | 0632 | J36-67 | J30-52 | 0129 | J25-N6 | J31-52 | 0339 | J26-T1 | J32-54 | 0078 | J24-F2 |
| J29-R1 | 0670 | J32-11 | J30-53 | 0130 | J25-P1 | J31-53 | 0317 | J26-H5 | J32-57 | 0236 | J25-Y2 |
| J29-R2 | 0633 | J36-59 | J30-58 | 0591 | J29-L3 | J31-54 | 0075 | J24-E5 | J32-58 | 0336 | J26-S1 |
| J29-R3 | 0671 | J32-49 | J30-59 | 0474 | J28-V5 | J31-57 | 0324 | J26-M1 | J32-59 | 0678 | J29-T1 |
| J29-R4 | 0672 | J33-/C | J30-60 | 0473 | J28-H3 | J31-58 | 0338 | J26-S5 | J32-60 | 0214 | J25-H5 |
| J29-R5 | 0592 | J30-10 | J30-61 | 0355 | J27-S5 | J31-59 | 0675 | J29-V1 | J32-61 | 0102 | J24-T5 |
| J29-R6 | 0673 | J33-L | J30-62 | 0011 | J24-N4 | J31-60 | 0097 | J24-R6 | J32-62 | 0215 | J25-J2 |
| J29-S1 | 0593 | J30-B | J30-63 | 0012 | J24-P4 | J31-61 | 0099 | J24-12 | J32-63 | 0106 | J24-U3 |
| J29-S2 | 0674 | J33-1K | J30-64 | 0119 | J25-A6 | J31-62 | 0111 | J24-V2 | J32-64 | 0686 | J29-U3 |
| J29-S3 | 0594 | J30-7 | J30-65 | 0120 | J25-B1 | J31-63 | 0103 | J24-T6 | J32-65 | 0110 | J24-V1 |
| J29-S5 | 0676 | J35-59 | J30-66 | 0121 | J25-B2 | J31-64 | 0683 | J29-X6 | J32-66 | 0216 | J25-J3 |
| J29-T1 | 0678 | J32-59 | J30-67 | 0134 | J25-T6 | J31-65 | 0107 | J24-U4 | | | |
| J29-T3 | 0680 | J35-10 | J30-68 | 0136 | J25-U6 | J31-66 | 0112 | J24-V4 | J33-A | 0429 | J27-G3 |
| J29-T5 | 0682 | J32-10 | J30-69 | 0140 | J25-X4 | | | | J33-B | 0428 | J27-F6 |
| J29-U1 | 0684 | J35-64 | J30-70 | 0138 | J25-V6 | J32-1 | 0232 | J25-N6 | J33-C | 0436 | J27-J5 |
| J29-U3 | 0686 | J32-64 | | | | J32-2 | 0084 | J24-L4 | J33-D | 0348 | J26-W1 |
| J29-V1 | 0675 | J31-59 | J31-1 | 0223 | J25-U1 | J32-3 | 0655 | J29-J5 | J33-E | 0347 | J26-V5 |
| J29-V3 | 0677 | J34-59 | J31-2 | 0095 | J24-P1 | J32-4 | 0233 | J25-X1 | J33-F | 0350 | J26-W6 |
| J29-V5 | 0679 | J31-10 | J31-3 | 0452 | J27-R1 | J32-5 | 0089 | J24-M5 | J33-G | 0352 | J26-X4 |
| J29-W6 | 0685 | J34-64 | J31-4 | 0224 | J25-U2 | J32-6 | 0202 | J25-B4 | J33-H | 0300 | J26-E5 |
| J29-X2 | 1555 | J33-HH | J31-5 | 0091 | J24-N1 | J32-7 | 0093 | J24-N5 | J33-J | 0306 | J26-F5 |
| J29-X4 | 0681 | J34-10 | J31-6 | 0204 | J25-D5 | J32-8 | 0082 | J24-P6 | J33-K | 0074 | J24-A1 |
| J29-X6 | 0683 | J31-64 | J31-7 | 0086 | J24-L6 | J32-9 | 0234 | J25-X2 | J33-L | 0673 | J29-R6 |
| | | | J31-8 | 0079 | J24-F3 | J32-10 | 0682 | J29-T5 | J33-M | 0330 | J26-P1 |
| J3-A1 | 1142 | A4E13 | J31-9 | 0225 | J25-U3 | J32-11 | 0670 | J29-R1 | J33-N | 0327 | J26-N1 |
| J3-A2 | 1141 | A4W1 | J31-10 | 0679 | J29-V5 | J32-12 | 0669 | J29-P5 | J33-P | 0295 | J26-D3 |
| J3-A3 | 1127 | J5-E5 | J31-11 | 0468 | J27-V6 | J32-13 | 0641 | J29-D3 | J33-R | 0235 | J25-X6 |
| J3-A4 | 1128 | J5-E6 | J31-12 | 0467 | J27-W4 | J32-14 | 0645 | J29-F2 | J33-S | 0326 | J26-M5 |
| J3-A5 | 1139 | A4E6 | J31-13 | 0438 | J27-K3 | J32-15 | 0650 | J29-H1 | J33-T | 0416 | J27-A5 |
| J3-A6 | 1140 | A4E5 | J31-14 | 0442 | J27-L5 | J32-16 | 0640 | J29-D1 | J33-U | 0418 | J27-B3 |
| J3-A7 | 1135 | A4E2 | J31-15 | 0147 | J27-M3 | J32-17 | 0644 | J29-E6 | J33-V | 0419 | J27-B5 |
| J3-A8 | 1136 | A4E1 | J31-16 | 0437 | J27-K1 | J32-18 | 0649 | J29-G5 | J33-W | 0420 | J27-C1 |
| J3-B1 | 1137 | A4E4 | J31-17 | 0441 | J27-L3 | J32-19 | 0654 | J29-J3 | J33-X | 0422 | J27-D3 |
| J3-B2 | 1138 | A4J33 | J31-18 | 0446 | J27-N1 | J32-20 | 0656 | J29-K1 | J33-Y | 0301 | J26-E6 |
| | | | J31-19 | 0451 | J27-P5 | J32-21 | 0652 | J29-H5 | J33-Z | 0639 | J29-C1 |
| J30-1 | 0006 | J24-G4 | J31-20 | 0453 | J27-R3 | J32-22 | 0653 | J29-J1 | J33-/A | 0431 | J27-H1 |
| J30-2 | 0007 | J24-H3 | J31-21 | 0449 | J27-P1 | J32-23 | 0658 | J29-K5 | J33-/B | 0307 | J26-F6 |
| J30-7 | 0594 | J29-S3 | J31-22 | 0450 | J27-P3 | J32-24 | 0657 | J29-K3 | J33-/C | 0672 | J29-R4 |
| J30-8 | 0593 | J29-S1 | J31-23 | 0455 | J27-S1 | J32-25 | 0651 | J29-H3 | J33-/D | 0321 | J26-K5 |
| J30-10 | 0592 | J29-R5 | J31-24 | 0454 | J27-R5 | J32-26 | 0663 | J29-M5 | J33-/E | 0349 | J26-W4 |
| J30-12 | 0237 | J26-A1 | J31-25 | 0448 | J27-N5 | J32-27 | 0664 | J29-N1 | J33-/F | 0323 | J26-L5 |
| J30-14 | 0125 | J25-K3 | J31-26 | 0460 | J27-U1 | J32-28 | 0665 | J29-N3 | J33-/G | 0351 | J26-X2 |
| J30-15 | 0127 | J25-K5 | J31-27 | 0461 | J27-U3 | J32-29 | 0666 | J29-N5 | J33-/H | 0353 | J26-X6 |
| J30-16 | 0241 | J26-L1 | J31-28 | 0463 | J27-V1 | J32-30 | 0667 | J29-P1 | J33-/K | 0674 | J29-S2 |
| J30-17 | 0131 | J25-P2 | J31-29 | 0464 | J27-V3 | J32-31 | 0668 | J29-P3 | J33-/M | 0434 | J27-J1 |
| J30-18 | 0132 | J25-P3 | J31-30 | 0465 | J27-V5 | J32-32 | 0427 | J29-F4 | J33-/N | 0435 | J27-J3 |
| J30-19 | 0239 | J26-B6 | J31-31 | 0466 | J27-W1 | J32-33 | 0311 | J29-G5 | J33-/P | 0328 | J26-N3 |
| J30-20 | 0238 | J26-B1 | J31-32 | 0424 | J27-E4 | J32-34 | 0342 | J26-U1 | J33-/Q | 0354 | J26-Y2 |
| J30-21 | 0013 | J24-P6 | J31-33 | 0308 | J26-G2 | J32-35 | 0659 | J29-L1 | J33-/R | 0415 | J27-A2 |
| J30-22 | 0008 | J24-K2 | J31-34 | 0345 | J26-V1 | J32-36 | 0217 | J25-K2 | J33-/S | 0417 | J27-B1 |
| J30-23 | 0001 | J24-A2 | J31-35 | 0456 | J27-S3 | J32-37 | 0218 | J25-N2 | J33-/T | 0421 | J27-D1 |
| J30-24 | 0002 | J24-A4 | J31-36 | 0113 | J24-W3 | J32-38 | 0299 | J26-E4 | J33-/U | 0423 | J27-D5 |
| J30-25 | 0003 | J24-A5 | J31-37 | 0114 | J24-W5 | J32-39 | 0305 | J26-F4 | J33-/V | 0563 | J28-M5 |
| J30-26 | 0004 | J24-A6 | J31-38 | 0296 | J26-D4 | J32-40 | 0648 | J29-G3 | J33-/W | 0430 | J27-G5 |
| J30-27 | 0009 | J24-L3 | J31-39 | 0302 | J26-F1 | J32-41 | 0219 | J25-N4 | J33-/X | 0469 | J27-X2 |
| J30-28 | 0010 | J24-M4 | J3140 | 0445 | J27-M5 | J32-42 | 0316 | J26-H4 | J33-/Y | 0222 | J25-S1 |
| J30-29 | 0122 | J25-D2 | J31-41 | 0115 | J24X1 | J32-43 | 0646 | J29-F4 | J33-/Z | 0221 | J25-P4 |
| J30-30 | 0123 | J25-D3 | J31-42 | 0312 | J26-H1 | J32-44 | 0647 | J29-F6 | J33-AA | 0220 | J25-N5 |
| J30-31 | 0124 | J25-D4 | J31-43 | 0443 | J27-M1 | J32-45 | 0643 | J29-E4 | J33-BB | 0329 | J26-N5 |
| J30-32 | 0133 | J25-T5 | J3144 | 0444 | J27-M3 | J32-46 | 0642 | J29-D5 | J33-CC | 0432 | J27-H3 |

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

| FROM WIRE TO ID | | | FROM WIRE TO ID | | | FROM WIRE TO ID | | | FROM WIRE TO ID | | |
|-----------------|------|--------|-----------------|------|--------|-----------------|------|--------|-----------------|-------|---------|
| J33-DD | 0088 | J24-M3 | J34-61 | 0101 | J25-T4 | J35-63 | 0104 | J24-U1 | J36-67 | 0632 | J29-P6 |
| J33-EE | 0200 | J25-A5 | J34-62 | 0209 | J25-F5 | J25-64 | 0684 | J29-U1 | J36-69 | 0253 | J26-D2 |
| J33-FF | 0203 | J25-D1 | J34-63 | 0105 | J24-U2 | J35-65 | 0108 | J24-U5 | J36-70 | 0176 | J25-N3 |
| J33-GG | 0312 | J26-G6 | J34-64 | 0685 | J29-W6 | J35-66 | 0117 | J24-X3 | | | |
| J33-HH | 1555 | J29-X2 | J34-65 | 0109 | J24-U6 | | | | J37-1 | 0051 | J24-P3 |
| J33-JJ | 0098 | J24-S3 | J34-66 | 0210 | J25-F6 | | | | J37-2 | 0149 | J25-F3 |
| J33-KK | 0433 | J27-H5 | | | | J36-1 | 0052 | J24-P5 | J37-3 | 0062 | J24-S6 |
| J33-LL | 0083 | J24-L2 | J35-1 | 0226 | J25-V1 | J36-2 | 0157 | J25-H6 | J37-4 | 0505 | J28-M4 |
| | | | J35-2 | 0096 | J24-F2 | J36-3 | 0063 | J24-T1 | J37-5 | 0151 | J25-M2 |
| J34-1 | 0229 | J25-W1 | J35-3 | 0546 | J28-F4 | J36-4 | 0600 | J29-B6 | J37-6 | 05436 | J28-M6 |
| J34-2 | 0085 | J24-L5 | J35-4 | 0227 | J25-V2 | J36-5 | 0159 | J25-J4 | J37-7 | 0507 | J28-N2 |
| J34-3 | 0579 | J28-U1 | J35-5 | 0092 | J24-N2 | J36-6 | 0601 | J29-C2 | J37-8 | 0508 | J28-N4 |
| J34-4 | 0230 | J25-W3 | J35-6 | 0205 | J25-D6 | J36-7 | 0602 | J29-D2 | J37-9 | 0509 | J28-N6 |
| J34-5 | 0090 | J24-M6 | J35-7 | 0087 | J24-M1 | J36-8 | 0603 | J29-D4 | J37-10 | 0510 | J28-P2 |
| J34-6 | 0201 | J25-B3 | J35-8 | 0080 | J24-F4 | J36-9 | 0604 | J29-D6 | J37-11 | 0511 | J28-P4 |
| J34-7 | 0094 | J24-N6 | J35-9 | 0228 | J25-V3 | J36-10 | 0605 | J29-E5 | J37-12 | 0512 | J28-P6 |
| J34-8 | 0081 | J24-F5 | J35-10 | 0680 | J29-T3 | J36-11 | 0606 | J29-F1 | J37-13 | 0025 | J24-D4 |
| J34-9 | 0231 | J25-W4 | J35-11 | 0562 | J28-M3 | J36-12 | 0607 | J29-F3 | J37-14 | 0023 | J24-D2 |
| J34-10 | 0681 | J29-X4 | J35-12 | 0561 | J28-M1 | J36-13 | 0028 | J24-E4 | J37-15 | 0032 | J24-H1 |
| J34-11 | 0638 | J29-B5 | J35-13 | 0471 | J27-X6 | J36-14 | 0026 | J24-D5 | J37-16 | 0513 | J28-R2 |
| J34-12 | 0637 | J29-B3 | J35-14 | 0536 | J28-B1 | J36-15 | 0033 | J24-H2 | J37-17 | 0040 | J24-J4 |
| J34-13 | 0565 | J28-N3 | J35-15 | 0541 | J28-D3 | J36-16 | 0608 | J29-F5 | J37-18 | 0514 | J28-R4 |
| J34-14 | 0569 | J28-P5 | J35-16 | 0470 | J27-X4 | J36-17 | 0042 | J24-J6 | J37-19 | 0515 | J28-R6 |
| J34-15 | 0574 | J28-S3 | J35-17 | 0535 | J28-A5 | J36-18 | 0609 | J29-O2 | J37-20 | 0516 | J28-S2 |
| J34-16 | 0564 | J28-N1 | J35-18 | 0540 | J28-D1 | J36-19 | 0610 | J29-G4 | J37-21 | 0517 | J28-S4 |
| J34-17 | 0568 | J28-P3 | J35-19 | 0545 | J28-F2 | J36-20 | 0611 | J29-O6 | J37-22 | 0047 | J24-K6 |
| J34-18 | 0573 | J28-S1 | J35-20 | 0547 | J28-F6 | J36-21 | 0612 | J29-H2 | J37-23 | 0518 | J28-S6 |
| J34-19 | 0578 | J28-T5 | J35-21 | 0543 | J28-E4 | J36-22 | 0048 | J24-L1 | J37-24 | 0519 | J28-T2 |
| J34-20 | 0580 | J28-U3 | J35-22 | 0544 | J28-E6 | J36-23 | 0613 | J29-H4 | J37-25 | 0520 | J28-T4 |
| J34-21 | 0576 | J28-T1 | J35-23 | 0549 | J28-O5 | J36-24 | 0614 | J29-H6 | J37-26 | 0244 | J26-A5 |
| J34-22 | 0577 | J28-T3 | J35-24 | 0548 | J28-G3 | J36-25 | 0615 | J29-J2 | J37-27 | 0056 | J24-R4 |
| J34-23 | 0582 | J28-V1 | J35-25 | 0542 | J28-D5 | J36-26 | 0245 | J26-A6 | J37-28 | 0521 | J28-T6 |
| J34-24 | 0581 | J28-U5 | J35-26 | 0554 | J28-J5 | J36-27 | 0057 | X24-R5 | J37-29 | 0522 | J28-U2 |
| J34-25 | 0575 | J28-S5 | J35-27 | 0555 | J28-K1 | J36-28 | 0616 | J29-J4 | J37-30 | 0523 | J28-U4 |
| J34-26 | 0587 | J28-X2 | J35-28 | 0557 | J28-K5 | J36-29 | 0617 | J29-J6 | J37-31 | 0529 | J28-U6 |
| J34-27 | 0588 | J28-X4 | J35-29 | 0558 | J28-L1 | J36-30 | 0618 | J29-K2 | J37-32 | 0525 | J28-V2 |
| J34-28 | 0590 | J28-Y2 | J35-30 | 0559 | J28-L3 | J36-31 | 0619 | J29-K4 | J37-33 | 0526 | J28-V4 |
| J34-29 | 0634 | J29-A2 | J35-31 | 0560 | J28-L5 | J36-32 | 0620 | J29-K6 | J37-34 | 0145 | J25-C1 |
| J34-30 | 0635 | J29-A5 | J35-32 | 0425 | J27-E6 | J36-33 | 0621 | J29-L2 | J37-35 | 0248 | J26-B4 |
| J34-31 | 0636 | J29-B1 | J35-33 | 0309 | J26-G3 | J36-34 | 0146 | J25-C2 | J37-36 | 0150 | J25-F4 |
| J34-32 | 0426 | J27-F2 | J35-34 | 0346 | J26-V3 | J36-35 | 0249 | J26-B5 | J37-39 | 0154 | J25-G5 |
| J34-33 | 0310 | J26-G4 | J35-35 | 0550 | J28-H1 | J36-36 | 0158 | J25-J1 | J37-10 | 0152 | J25-C33 |
| J34-34 | 0343 | J26-U3 | J35-36 | 0206 | J25-E5 | J36-39 | 0162 | J25-K1 | J3741 | 0153 | J25-G4 |
| J34-35 | 0583 | J28-V3 | J35-37 | 0207 | J25-F1 | J36-40 | 0160 | J25-J5 | J37-42 | 0168 | J25-L6 |
| J34-36 | 0211 | J25-G6 | J35-38 | 0297 | J26-D5 | J36-41 | 0161 | J25-J6 | J37-43 | 0167 | J25-L5 |
| J34-37 | 0212 | J25-H2 | J35-39 | 0303 | J26-F2 | J36-42 | 0163 | J25-L1 | J3744 | 0166 | J25-L4 |
| J34-38 | 0298 | J26-D6 | J35-40 | 0539 | J28-C1 | J36-43 | 0164 | J25-L2 | J37-45 | 0155 | J25-H1 |
| J34-39 | 0304 | J26-F3 | J35-41 | 0118 | J34-Y2 | J36-44 | 0165 | J25-L3 | J37-48 | 0178 | J25-P6 |
| J34-40 | 0572 | J28-R5 | J35-42 | 0314 | J26-H2 | J36-45 | 0175 | J25-N1 | J37-49 | 0024 | J24-D3 |
| J34-41 | 0213 | J25-H4 | J35-43 | 0537 | J28-B3 | J36-48 | 0177 | J25-P5 | J37-50 | 0527 | J28-V6 |
| J34-42 | 0315 | J26-H3 | J35-44 | 0538 | J28-B5 | J36-49 | 0027 | J24-D6 | J37-51 | 0190 | J25-T1 |
| J34-43 | 0570 | J28-R1 | J35-45 | 0534 | J28-A2 | J36-50 | 0622 | J29-L4 | J37-52 | 0041 | J24-J5 |
| J34-44 | 0571 | J28-R3 | J35-46 | 0472 | J27-Y2 | J36-51 | 0189 | J25-S6 | J37-53 | 0528 | J28-W3 |
| J34-45 | 0567 | J28-P1 | J35-47 | 0552 | J28-J1 | J36-52 | 0043 | J24-K1 | J37-54 | 0529 | J28-W5 |
| J34-46 | 0566 | J28-N5 | J35-48 | 0553 | J28-J3 | J36-53 | 0623 | J29-L6 | J37-55 | 0530 | J28-X1 |
| J34-47 | 0585 | J28-W4 | J35-49 | 0556 | J28-K3 | J36-54 | 0624 | J29-M2 | J37-56 | 0531 | J28-X3 |
| J34-48 | 0586 | J28-W6 | J35-50 | 0551 | J28-H5 | J36-55 | 0625 | J29-M4 | J37-58 | 0182 | J25-R4 |
| J34-49 | 0589 | J28-X6 | J35-51 | 0333 | J26-R1 | J36-56 | 0626 | J29-M6 | J37-59 | 0186 | J25-S3 |
| J34-50 | 0584 | J28-W1 | J35-52 | 0340 | J26-T3 | J36-57 | 0181 | J25-R3 | J37-59 | 0532 | J28-X5 |
| J34-51 | 0332 | J26-P5 | J35-53 | 0318 | J26-J2 | J36-58 | 0185 | J25-S2 | J37-60 | 0258 | J26-J6 |
| J34-52 | 0341 | J26-T5 | J35-54 | 0076 | J24-F6 | J36-59 | 0633 | J29-R2 | 337-61 | 0195 | J25-V4 |
| J34-53 | 0319 | J26-J5 | J35-55 | 0322 | J26-L3 | J36-60 | 0260 | J26-K3 | J37-62 | 0533 | J28-Y1 |
| J34-54 | 0077 | J24-F1 | J35-57 | 0322 | J26-L3 | J36-61 | 0196 | J25-W5 | J37-63 | 0595 | J29-A1 |
| J34-55 | 0325 | J26-M3 | J35-58 | 0337 | J26-S3 | J36-62 | 0627 | J29-N2 | J37-64 | 0596 | J29-A4 |
| J34-56 | 0325 | J26-M3 | J35-59 | 0676 | J29-S5 | J36-63 | 0628 | J29-N4 | J37-65 | 0597 | J29-A6 |
| J34-57 | 0335 | J26-R5 | J35-60 | 0199 | J25-A1 | J36-64 | 0629 | J29-N6 | 137-66 | 0598 | J29-B2 |
| J34-58 | 0335 | J26-R5 | J35-61 | 0100 | J24-T3 | J36-65 | 0630 | J20-P2 | J37-67 | 0599 | J29-B4 |
| J34-59 | 0677 | J29-V3 | J35-62 | 0116 | J24-X2 | J36-66 | 0631 | J29-P4 | | | |
| J34-60 | 0208 | J25-F2 | | | | | | | | | |

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

| FROM | WIRE ID | TO | FROM | WIRE ID | TO | FROM | WIRE ID | TO | FROM | WIRE ID | TO |
|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|
| J37-69 | 0252 | J26-D1 | J38-70 | 0073 | J24-Y1 | J4-A1 | 1256 | A2W3 | J40-63 | 0257 | J26-J4 |
| J37-70 | 0156 | J25-H3 | J39-1 | 0049 | J24-M2 | J4-B1 | 1257 | A2W1 | J40-64 | 0374 | J27-H4 |
| J38-1 | 0050 | J24-N3 | J39-2 | 0058 | J24-S1 | J4-A1 | 1282 | A2E9 | J40-65 | 0255 | J26-J1 |
| J38-2 | 0141 | J25-A2 | J39-3 | 0060 | J24-S4 | J4-A1 | 1281 | J10-M4 | J40-67 | 0375 | J27-H6 |
| J38-3 | 0061 | J24-S5 | J39-4 | 0377 | J27-J4 | J4-A1 | | J10-G5 | J40-68 | 0261 | J26-K4 |
| J384 | 0411 | J27-X1 | J39-5 | 0064 | J24-V3 | J40-1 | 0197 | J25-X5 | J40-69 | 0259 | J26-K1 |
| J38-5 | 0070 | J24-X4 | J39-6 | 0378 | J27-J6 | J40-2 | 0198 | J25-Y1 | J40-70 | 0376 | J27-J2 |
| J38-6 | 0412 | J27-X3 | J39-7 | 0379 | J27-K2 | J40-3 | 0262 | J26-L2 | J5-A1 | 1560 | J2-A1 |
| J38-7 | 0413 | J27-X5 | J39-8 | 0380 | J27-K4 | J40-4 | 0263 | J26-L4 | J5-A2 | 1561 | J2-A2 |
| J38-8 | 0414 | J27-Y1 | J39-9 | 0381 | J27-K6 | J40-5 | 0264 | J26-L6 | J5-A3 | 1562 | J2-A3 |
| J38-9 | 0475 | J28-A1 | J39-10 | 0382 | J27-L2 | J40-7 | 0265 | J26-M2 | J5-A4 | 1563 | J2-A4 |
| J38-10 | 0476 | J28-A4 | J39-11 | 0383 | J27-L4 | J40-8 | 0014 | J24-B1 | J5-A5 | 1564 | J2-A5 |
| J38-11 | 0477 | J28-A6 | J39-12 | 0384 | J27-L6 | J40-9 | 0266 | J26-M4 | J5-A6 | 1565 | J2-A6 |
| J38-12 | 0478 | J28-B2 | J39-13 | 0019 | J24-B6 | J40-10 | 0267 | J26-M6 | J5-B1 | 1566 | J2-A7 |
| J38-13 | 0022 | J24-D1 | J39-14 | 0017 | J24-B4 | J40-11 | 0268 | J26-N2 | J5-B2 | 1567 | J2-A8 |
| J38-14 | 0020 | J24-C1 | J39-15 | 0030 | J24-G5 | J40-12 | 0269 | J26-N4 | J5-B3 | 1568 | J2-B1 |
| J38-15 | 0031 | J24-G6 | J39-16 | 0385 | J27-M2 | J40-13 | 0016 | J24-B3 | J5-B4 | 1569 | J2-B2 |
| J38-16 | 0479 | J28-B4 | J39-17 | 0036 | J24-H6 | J40-14 | 0015 | J24-B2 | J5-B5 | 1570 | J2-B3 |
| J38-17 | 0038 | J24-J2 | J39-18 | 0386 | J27-M4 | J40-15 | 0029 | J24-G2 | J5-B6 | 1571 | J2-B4 |
| J38-18 | 0480 | J28-B6 | J39-19 | 0387 | J27-M6 | J40-16 | 0270 | J26-N6 | J5-C1 | 1578 | J2-B5 |
| J38-19 | 0481 | J28-C2 | J39-20 | 0388 | J27-N2 | J40-17 | 0034 | J24-H4 | J5-C2 | 1581 | J2-B6 |
| J38-20 | 0482 | J28-D2 | J39-21 | 0389 | J27-N4 | J40-18 | 0271 | J26-P2 | J5-C2 | 1581 | J2-B6 |
| J38-21 | 0483 | J28-D4 | J39-22 | 0045 | J24-K4 | J40-19 | 0272 | J26-P4 | J5-C3 | 1582 | J5-C2 |
| J38-22 | 0046 | J24-K5 | J39-23 | 0390 | J27-N6 | J40-20 | 0273 | J26-P6 | J5-C4 | 1047 | J21-A7 |
| J38-23 | 0484 | J28-D6 | J39-24 | 0391 | J27-P2 | J40-21 | 0274 | J26-R2 | J5-C5 | 1049 | J21-A8 |
| J38-24 | 0485 | J28-E5 | J39-25 | 0392 | J27-P4 | J40-22 | 0044 | J24-K3 | J5-C6 | 1051 | J21-B1 |
| J38-25 | 0486 | J28-F1 | J39-26 | 0242 | J26-A2 | J40-23 | 0275 | J26-R4 | J5-D1 | 1053 | J21-B2 |
| J38-26 | 0243 | J26-A4 | J39-27 | 0054 | J24-R2 | J40-24 | 0276 | J26-R6 | J5-D2 | 1055 | J21-B3 |
| J38-27 | 0055 | J24-R3 | J39-28 | 0393 | J27-P6 | J40-25 | 0277 | J26-S2 | J5-D3 | 1057 | J21-B4 |
| J38-28 | 0487 | J28-F3 | J39-29 | 0394 | J27-R2 | J40-26 | 0278 | J26-S4 | J5-D4 | 1059 | J21-B5 |
| J38-29 | 0488 | J28-F5 | J39-30 | 0395 | J27-R4 | J40-27 | 0053 | J24-R1 | J5-D5 | 1061 | J21-B6 |
| J38-30 | 0489 | J28-G2 | J39-31 | 0396 | J27-R6 | J40-28 | 0279 | J26-S6 | J5-D6 | 1063 | J21-B7 |
| J38-31 | 0490 | J28-G4 | J39-32 | 0397 | J27-S2 | J40-29 | 0280 | J26-T2 | J5-E1 | 1065 | J21-B8 |
| J38-32 | 0491 | J28-G6 | J39-33 | 0398 | J27-S4 | J40-30 | 0281 | J26-T4 | J5-E2 | 1067 | J21-C1 |
| J38-33 | 0492 | J28-H2 | J39-34 | 0143 | J25-B5 | J40-31 | 0282 | J26-T6 | J5-E3 | 1069 | J21-C2 |
| J38-34 | 0144 | J25-B6 | J39-35 | 0246 | J26-B2 | J40-32 | 0283 | J26-U2 | J5-E4 | 1572 | J2-C7 |
| J38-35 | 0247 | J26-B3 | J39-36 | 0059 | J24-S2 | J40-33 | 0284 | J26-U4 | J5-E5 | 1127 | J3-A3 |
| J38-36 | 0142 | J25-A4 | J39-39 | 0067 | J24-W1 | J40-34 | 0285 | J26-U6 | J5-E6 | 1128 | J3-A4 |
| J38-39 | 0147 | J25-E4 | J39-40 | 0065 | J24-V5 | J40-35 | 0286 | J26-V2 | J5-F1 | 1526 | W1 |
| J38-40 | 0071 | J24-X5 | J39-41 | 0066 | J24-V6 | J40-36 | 0287 | J26-V4 | J5-F2 | 1109 | J1-S6 |
| J38-41 | 0072 | J24-X6 | J39-42 | 0174 | J25-M6 | J40-37 | 0288 | J26-V6 | J5-F3 | 1523 | w1 |
| J38-42 | 0171 | J25-M3 | J39-43 | 0173 | J25-M5 | J40-38 | 0289 | J26-W3 | J5-F4 | 1022 | J2-L3 |
| J38-43 | 0170 | J25-M2 | J39-44 | 0172 | J25-M4 | J40-39 | 0290 | J26-W5 | J5-F5 | 1024 | J2-JA |
| J38-44 | 0169 | J25-M1 | J39-45 | 0068 | J24-W4 | J40-10 | 0291 | J26-X1 | J5-F6 | 1110 | J1-T1 |
| J38-45 | 0148 | J25-E6 | J39-48 | 0180 | J25-R2 | J40-41 | 0292 | J26-X3 | J5-G1 | 1579 | J5-C1 |
| J38-48 | 0179 | J25-R1 | J39-49 | 0018 | J24-B5 | J40-42 | 0293 | J26-X5 | J5-G2 | 0973 | J23-M2 |
| J38-49 | 0021 | J24-C2 | J39-50 | 0399 | J27-S6 | J40-43 | 0294 | J26-Y1 | J5-G3 | 0974 | J23-M5 |
| J38-50 | 0493 | J28-H4 | J39-51 | 0192 | J25-T3 | J40-44 | 0356 | J27-A1 | J5-G4 | 1111 | J1-T2 |
| J38-51 | 0191 | J25-T2 | J39-52 | 0037 | J24-J1 | J40-45 | 0357 | J27-A4 | J5-G5 | 0975 | J23-M6 |
| J38-52 | 0039 | J24-J3 | J39-53 | 0400 | J27-T2 | J40-46 | 0358 | J27-A6 | J5-G6 | 0976 | J23-N1 |
| J38-53 | 0494 | J28-H6 | J39-54 | 0401 | J27-T4 | J4047 | 0359 | J27-B2 | J5-H1 | 0977 | J23-N2 |
| J38-54 | 0495 | J28-J2 | J39-55 | 0402 | J27-T6 | J40-48 | 0360 | J27-B4 | J5-H2 | 1112 | J1-T3 |
| J38-55 | 0496 | J28-J4 | J39-56 | 0403 | J27-U2 | J40-49 | 0361 | J27-B6 | J5-H3 | 0978 | J23-T5 |
| J38-56 | 1554 | J28-J6 | J39-57 | 0184 | J25-R6 | J40-50 | 0362 | J27-C2 | J5-H4 | 0979 | J23-U4 |
| J38-57 | 0183 | J25-R5 | J39-58 | 0188 | J25-S5 | J40-51 | 0363 | J27-D2 | J5-H5 | 0980 | J23-U5 |
| J38-58 | 0187 | J25-S4 | J39-59 | 0404 | J27-U4 | J40-52 | 0035 | J24-H5 | J5-H6 | 1113 | J1-T4 |
| J38-59 | 0498 | J28-K2 | J39-60 | 0254 | J26-H6 | J40-53 | 0364 | J27-D4 | J5-J1 | 0981 | J23-V2 |
| J38-60 | 0256 | J26-J3 | J39-61 | 0193 | J25-T4 | J40-54 | 0365 | J27-D6 | J5-J2 | 0982 | J23-X2 |
| J38-61 | 0194 | J25-U4 | J39-62 | 0405 | J27-U6 | J40-55 | 0366 | J27-E5 | J5-J3 | 0983 | J23-Y1 |
| J38-62 | 0499 | J28-K4 | J39-53 | 0406 | J27-V6 | J40-56 | 0367 | J27-F1 | J5-J4 | 1102 | J1-T6 |
| J38-63 | 0500 | J28-K6 | J39-64 | 0407 | J27-V4 | J40-57 | 0368 | J27-F3 | J5-J5 | 0984 | J23-Y5 |
| J38-64 | 0501 | J28-L2 | J39-65 | 0408 | J27-V6 | J40-58 | 0369 | J27-F5 | J5-J6 | 0985 | J23-U2 |
| J38-65 | 0502 | J28-L4 | J39-66 | 0409 | J27-W3 | J40-59 | 0370 | J27-G2 | J5-K1 | 1207 | J23-D5 |
| J38-66 | 0503 | J28-L6 | J39-67 | 0410 | J27-W5 | J40-60 | 0371 | J27-G4 | J5-K2 | 1114 | J1-U6 |
| J38-67 | 0504 | J28-M2 | J39-69 | 0250 | J26-C1 | J40-61 | 0372 | J27-G6 | J5-K3 | 1198 | J23-C4 |
| J38-69 | 0251 | J26-C2 | J39-70 | 0069 | J24-W6 | J40-62 | 0373 | J27-H2 | J5-K4 | 1203 | J23-E5 |

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

| FROM WIRE TO | | | FROM WIRE TO | | | FROM WIRE TO | | | FROM WIRE TO | | |
|--------------|------|---------|--------------|------|---------|--------------|------|-------|--------------|------|---------|
| ID | | | ID | | | ID | | | ID | | |
| J5-K6 | 1103 | J1-W5 | J5-K6 | 1106 | J5-Z1 | J8-B1 | 0900 | J8-D7 | J9-55 | 0884 | J9-56 |
| J5-L1 | 0986 | J23-M1 | J5-K6 | 1105 | J5-J4 | J8-C7 | 0893 | J8-C8 | J9-56 | 0884 | J9-55 |
| J5-L2 | 0987 | J23-M4 | J5-T3 | 1541 | J2-H7 | J8-C8 | 0893 | J8-C7 | | | |
| J5-L3 | 0988 | J23-N3 | J5-T3 | 1542 | J5-J1 | J8-D7 | 0900 | J8-B1 | W1 | 1527 | J2-D7 |
| J5-L4 | 1115 | J1-W6 | J5-T5 | 1544 | J2-L2 | J8-D7 | 0899 | J8-D8 | W1 | 1528 | J2-D8 |
| J5-L5 | 0989 | J23-Y3 | J5-T5 | 1543 | J2-J1 | J8-D8 | 0899 | J8-D7 | W1 | 1521 | J2-E1 |
| J5-L6 | 0990 | J23-Y6 | J5-T5 | 1546 | J21-C7 | J8-F7 | 0895 | J8-F8 | W1 | 1522 | J2-E2 |
| J5-M1 | 0991 | J23-Y2 | J5-T5 | 1545 | J5-Z2 | J8-F8 | 0895 | J8-F7 | W1 | 1511 | J21-A1 |
| J5-M2 | 1116 | J1-X1 | J5-W1 | 1104 | J5-J4 | J8-H7 | 0894 | J8-H8 | W1 | 1512 | J21-A2 |
| J5-M3 | 1587 | J23-L3 | | | | J8-H8 | 0894 | J8-H7 | W1 | 1513 | J21-A3 |
| J5-M6 | 1118 | J1-X3 | J6-A1 | 1235 | J21-D4 | J8-K3 | 0898 | J8-K4 | W1 | 1514 | J21-A4 |
| J5-N1 | 1547 | A1E5 | J6-A2 | 1023 | J2-L3 | J8-K4 | 0898 | J8-K3 | W1 | 1515 | J23-E1 |
| J5-N2 | 1553 | J5-C4 | J6-A3 | 1025 | J2-L4 | J8-L3 | 0897 | J8-L4 | W1 | 1516 | J23-E2 |
| J5-N4 | 1119 | J1-X4 | J6-A6 | 0999 | XA3-B40 | J8-L4 | 0897 | J8-L3 | W1 | 1517 | J23-E3 |
| J5-P1 | 1223 | J2-E6 | J6-B2 | 1201 | J2-D1 | J8-M3 | 0896 | J8-M4 | W1 | 1518 | J23-E4 |
| J5-P2 | 1577 | J1-C4 | J6-B4 | 0997 | XA3-A38 | J8-M4 | 0896 | J8-M3 | W1 | 1519 | J23-L2 |
| J5-P4 | 1356 | A5W2 | J6-C2 | 0996 | XA3-B36 | | | | W1 | 1520 | J23-L3 |
| J5-R2 | 1260 | A2W1 | J6D4 | 0994 | XA3-B34 | J9-1 | 0859 | J9-2 | W1 | 1526 | J5-F1 |
| J5-R6 | 1017 | XA3-B41 | J6-E6 | 1007 | XA3-B27 | J9-2 | 0859 | J9-1 | W1 | 1523 | J5-F3 |
| J5-S1 | 0963 | XA3-B31 | J6-F4 | 1008 | XA3-B26 | J9-3 | 0860 | J9-4 | W1 | 1524 | J5-X4 |
| J5-S3 | 1117 | J1-X2 | J6-02 | 1003 | XA3-B25 | J9-4 | 0860 | J9-3 | W1 | 1525 | XA3-B11 |
| J5-T1 | 1027 | XA3-A2 | J6-06 | 1004 | XA3-A31 | J9-5 | 0861 | J9-6 | | | |
| J5-T3 | 1072 | J21-C3 | J6-H4 | 1006 | XA3-A29 | J9-6 | 0861 | J9-5 | XA3-A2 | 1027 | J5-T1 |
| J5-T4 | 1074 | J21-C4 | J6-J2 | 1002 | XA3-A18 | J9-7 | 0862 | J9-8 | XA3-B1 | 1029 | J2-J7 |
| J5-T5 | 1076 | J21-C5 | J6-J4 | 1262 | A2W3 | J9-8 | 0862 | J9-7 | XA3-B1 | 1028 | J5-U1 |
| J5-T6 | 1078 | J21-C6 | J6-J6 | 1005 | XA3-A30 | J9-9 | 0863 | J9-10 | XA3-B2 | 1031 | J2-J8 |
| J5-U1 | 1028 | XA3-B1 | J6-K4 | 1146 | A4E9 | J9-10 | 0863 | J9-9 | XA3-B2 | 1030 | J5-U2 |
| J5-U2 | 1030 | XA3-B2 | J6-L2 | 1011 | XA3-A24 | J9-11 | 0864 | J9-12 | XA3-B3 | 1033 | J2-K1 |
| J5-U3 | 1032 | XA3-B3 | J6-L6 | 1148 | A4E7 | J9-12 | 0864 | J9-11 | XA3-B3 | 1032 | J5-U3 |
| J5-U4 | 1034 | XA3-B4 | J6-M4 | 1010 | XA3-A22 | J9-13 | 0865 | J9-14 | XA3-B4 | 1035 | J2-K2 |
| J5-U5 | 1036 | XA3-B5 | J6-N2 | 1009 | XA3-A21 | J9-14 | 0865 | J9-13 | XA3-B4 | 1034 | J5-U4 |
| J5-U6 | 1038 | XA3-B6 | J6-N6 | 1000 | XA3-A19 | J9-15 | 0866 | J9-16 | XA3-B5 | 1037 | J2-K3 |
| J5-V1 | 1040 | XA3-B7 | J6-P2 | 1588 | A2W2 | J9-16 | 0866 | J9-15 | XA3-B5 | 1036 | J5-U5 |
| J5-V2 | 1042 | XA3-B8 | J6-P3 | 1125 | J1-U4 | J9-17 | 0867 | J9-18 | XA3-B6 | 1039 | J2-K4 |
| J5-V3 | 1162 | A4W1 | J6-P4 | 1126 | J1-U5 | J9-18 | 0867 | J9-17 | XA3-B6 | 1038 | J5-U6 |
| J5-V4 | 1161 | A4E5 | J6-P6 | 1589 | A1K1-A1 | J9-19 | 0868 | J9-20 | XA3-B7 | 1041 | J2-K5 |
| J5-V5 | 1159 | A4E1 | J6-R1 | 1001 | XA3-A20 | J9-20 | 0868 | J9-19 | XA3-B7 | 1040 | J5-V1 |
| J5-V6 | 1160 | A4E3 | J6-R2 | 1121 | J1-W1 | J9-21 | 0869 | J9-23 | XA3-B8 | 1043 | J2-K6 |
| J5-W1 | 1101 | J1-S4 | J6-R6 | 1122 | J1-W2 | J9-23 | 0869 | J9-21 | XA3-B8 | 1042 | J5-V2 |
| J5-W5 | 1573 | J2-B8 | J6-S4 | 1123 | J1-W3 | J9-24 | 0870 | J9-25 | XA3-A10 | 1045 | J2-K7 |
| J5-W6 | 1574 | J2-C1 | J6-T2 | 1124 | J1-W4 | J9-25 | 0870 | J9-24 | XA3-A10 | 1044 | J5-Y4 |
| J5-X3 | 1188 | J23-L4 | J6-T6 | 1149 | A4E13 | J9-26 | 0871 | J9-27 | XA3-A11 | 0968 | J12-B4 |
| J5-X3 | 1189 | J23-L5 | J6-U1 | 1145 | A4E6 | J9-27 | 0871 | J9-26 | XA3-A12 | 0970 | A1W1 |
| J5-X3 | 1190 | J23-L6 | J6-U2 | 1143 | A4E2 | J9-28 | 0872 | J9-29 | XA3-A13 | 0904 | J10-S1 |
| J5-X4 | 1524 | W1 | J6-U3 | 1144 | A4E4 | J9-29 | 0872 | J9-28 | XA3-A14 | 0906 | J10-S5 |
| J5-X5 | 1018 | XA3-A23 | J6-U4 | 0993 | XA3-B32 | J9-30 | 0873 | J9-31 | XA3-A15 | 0905 | J10-S2 |
| J5-Y4 | 1044 | XA3-A10 | J6-V2 | 1355 | A5W1 | J9-31 | 0873 | J9-30 | XA3-A16 | 0907 | J10-S4 |
| J5-Z1 | 1107 | A1E5 | J6-V6 | 1147 | A4E10 | J9-32 | 0874 | J9-33 | XA3-A18 | 1002 | J6-J2 |
| J5-Z1 | 1106 | J5-K6 | J6-W1 | 1261 | A2W4 | J9-33 | 0874 | J9-32 | XA3-A19 | 1000 | J6-N6 |
| J5-Z2 | 1545 | J5-C4 | J6-W3 | 1264 | A2W3 | J9-34 | 0875 | J9-35 | XA3-A20 | 1001 | J6-R1 |
| J5-C1 | 1579 | J5-G1 | J6-X1 | 1371 | A1W2 | J9-35 | 0875 | J9-34 | XA3-A21 | 1009 | J6-N2 |
| J5-C2 | 1582 | J5-C3 | J6-X5 | 1263 | A2W1 | J9-36 | 0876 | J9-37 | XA3-A22 | 1010 | J6-M4 |
| J5-C4 | 1529 | J2-E7 | J6-Z1 | 1108 | A1E5 | J9-37 | 0876 | J9-36 | XA3-A23 | 1018 | J5-X5 |
| J5-C4 | 1553 | J5-N2 | J6-C2 | 0995 | XA3-B35 | J9-38 | 0877 | J9-39 | XA3-A24 | 1011 | J6-L2 |
| J5-C6 | 1530 | J2-E7 | J6-C6 | 0998 | XA3-A39 | J9-39 | 0877 | J9-38 | XA3-A25 | 0943 | J1-R5 |
| J5-C6 | 1531 | J2-F1 | J6-W1 | 1277 | J1-V1 | J9-40 | 0878 | J9-41 | XA3-A25 | 0942 | J10-D5 |
| J5-D2 | 1532 | J2-F1 | J6-W1 | 1276 | J1-Y6 | J9-41 | 0878 | J9-40 | XA3-A26 | 0953 | J1-R4 |
| J5-D2 | 1533 | J2-F7 | J6-W3 | 1278 | J1-V1 | J942 | 0879 | J9-43 | XA3-A26 | 0952 | J10-E5 |
| J5-D4 | 1534 | J2-F7 | J6-W3 | 1279 | J10-N2 | J943 | 0879 | J9-42 | XA3-A27 | 0951 | J1-R3 |
| J5-D4 | 1535 | J2-G1 | | | | J944 | 0880 | J9-48 | XA3-A27 | 0950 | J10-E1 |
| J5-D6 | 1537 | J2-G7 | J7-A | 0890 | J7-D | J9-48 | 0880 | J9-44 | XA3-A29 | 1006 | J6-H4 |
| J5-D6 | 1538 | J2-H1 | J7-A | 0891 | J7-E | J9-49 | 0881 | J9-50 | XA3-A30 | 1005 | J6-J6 |
| J5-E2 | 1539 | J2-H1 | J7-D | 0890 | J7-A | J9-50 | 0881 | J9-49 | XA3-A31 | 1004 | J6-06 |
| J5-E2 | 1540 | J2-H7 | J7-E | 0891 | J7-A | J9-51 | 0882 | J9-52 | XA3-A32 | 0955 | J1-M3 |
| J5-J1 | 1542 | J5-T3 | | | | J9-52 | 0882 | J9-51 | XA3-A34 | 0910 | J1-R1 |
| J5-J4 | 1105 | J5-K6 | J8-A7 | 0892 | J8-A8 | J9-53 | 0883 | J9-54 | XA3-A34 | 0909 | J10-B4 |
| J5-J4 | 1104 | J5-W1 | J8-A8 | 0892 | J8-A7 | J9-54 | 0883 | J9-53 | XA3-A35 | 0912 | J1-R2 |

LOADBOX AND FORWARD HARNESS TEST ASSEMBLY (CONT)

| FROM WIRE ID | TO | FROM WIRE TO ID | FROM WIRE TO ID | FROM WIRE TO ID |
|--------------|-------------------|-----------------|-----------------|-----------------|
| XA3-A35 0911 | J10-D1 | | | |
| XA3-A36 0914 | J1-P5 | | | |
| XA3-A36 0913 | J10-D2 | | | |
| XA3-A38 0997 | J6-B4 | | | |
| XA3-A40 0920 | J1-P3 | | | |
| XA3-A40 0919 | J10-B1 | | | |
| XA3-A43 0964 | J1-/C2 | | | |
| XA3-A48 0935 | J10-E6 | | | |
| XA3-B10 0967 | J12-V1 | | | |
| XA3-B11 1525 | W1 | | | |
| XA3-B12 0971 | A1W1 | | | |
| XA3-17 0956 | J1-52 | | | |
| XA3-B18 0922 | J1-V5 | | | |
| XA3-B18 0921 | J10-B3 | | | |
| XA3-B19 0924 | J1-V6 | | | |
| XA3-B19 0923 | J10-B2 | | | |
| XA3-B20 0926 | J1-V4 | | | |
| XA3-B20 0925 | J10-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-C ² | | | |
| XA3-B37 0916 | J1-P4 | | | |
| XA3-B37 0915 | J10-B5 | | | |
| XA3-B38 0918 | J1-P6 | | | |
| XA3-B38 0917 | J10-A6 | | | |
| XA3-B39 1585 | J6-1C6 | | | |
| XA3-B40 0999 | J6-A6 | | | |
| XA3-B41 0938 | J10-W5 | | | |
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| XA3-B43 0966 | A4E11 | | | |
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| XA3-A23 1019 | A2E9 | | | |
| XA3-A24 1014 | A4E16 | | | |
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Chief of Staff

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| PAGE NO | PARA GRAPH | FIGURE NO | TABLE NO |
|---------|------------|-----------|----------|
| 9-19 | | 9-5 | |
| 21-2 | step 1C | | 21-2 |

SAMPLE

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.

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