

TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

FOR

CARRIER, PERSONNEL, FULL TRACKED, ARMORED M113A3
2350-01-219-7577 (EIC AEY)

CARRIER, COMMAND POST, LIGHT TRACKED M577A3
2350-01-369-6085 (EIC AE7)

CARRIER, SMOKE GENERATOR, FULL TRACKED M1059A3
2350-01-369-6083 (EIC AFA)

CARRIER, MORTAR, 120-MM M121, SELF-PROPELLED M1064A3
2350-01-369-6082 (EIC AE8)

CARRIER, STANDARDIZED INTEGRATED COMMAND POST SYSTEM
(SICPS) M1068A3
2350-01-369-6086 (EIC AFC)

CARRIER, MECHANIZED SMOKE OBSCURANT M58
2350-01-418-6654 (EIC 5CG)

SUPERSEDURE NOTICE — This manual supersedes TM 9-2350-277-20 dated 24 July 1994, including all changes.

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HEADQUARTERS, DEPARTMENT OF THE ARMY

January 2001

CHANGE
NO. 6

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 20 OCTOBER 2009

TECHNICAL MANUAL

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None

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FP-117 – FP-121/FP-122 blank

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WP 0870 00 – 0871 00
WP 0873 00 – 0875 00

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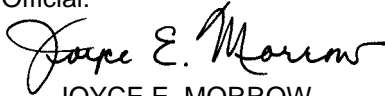
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WP 0881 00 – 0882 00
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FP-63 – FP 103/FP-104 blank
FP-106.1 – FP-121/FP-122 blank

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WP 0881 00 – 0882 00
WP 0899 00
WP 0924 00 – 0926 00
Index-1 – Index-99/100 blank
FP-1 – FP-30.1/FP-30.2 blank
FP-63 – FP 103/FP-104 blank
FP-106.1 – FP-121/FP-122 blank

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TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

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2350-01-418-6654 (EIC 5CG)

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Remove Pages/Work Packages

A/B blank
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WP 0816 00
WP 0879 00
WP 0924 00 – 0928 00
Index-1 – Index-103/104 blank
FP-7 – FP-10 blank
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Metric Chart/Back Cover

Insert Pages/Work Packages

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WP 0879 00
WP 0924 00 – 0928 00
Index-1 – Index-99/100 blank
FP-7 – FP-10 blank
FP-85/FP-86 blank
Metric Chart/Back Cover

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TECHNICAL MANUAL

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Remove Pages/Work Packages

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WP 0875 00
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FP-15 (FP-16 blank)
FP-21 (FP-22 blank) – FP-23 (FP-24 blank)
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FP-63 (FP-64 blank)

TM 9-2350-277-20-6

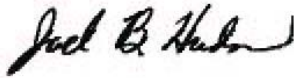
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FP-77 (FP-78 blank)
FP-90.1 (FP-90.2 blank)
FP-91 (FP-92 blank)
FP-97 (FP-98 blank) – FP-99 (FP-100 blank)
FP-106.1 (FP-106.2 blank)

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WASHINGTON, D.C., 2 October 2003

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Remove Pages/Work Packages

Title
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Chapter 26 WP Index
WP 0866 00
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WP 0869 00
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WP 0872 00
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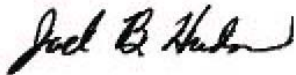
Insert Pages/Work Packages

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WP 0868 00
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WP 0870 00
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WP 0874 00
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WP 0878 00
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Chapter 28 WP Index
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WP 0885 00
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Chapter 29 WP Index
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Chapter 30 WP Index
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WP 0924 00 – 0926 00
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FP-83 (FP-84 blank) – FP-85 (FP-86 blank)
FP-97 (FP-98 blank) – FP99 (FP-100 blank)
Cover

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**CARRIER, ANTI-TANK (TOW), FULL TRACKED, ARMORED M901A3
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**CARRIER, FIRE SUPPORT PERSONNEL, FULL TRACKED, ARMORED M981A3
2350-01-369-6079 (EIC AFB)**

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Remove Pages/Work Packages

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i-xxix/xxx blank
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NEW
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LIST OF EFFECTIVE PAGES/WORK PACKAGES

Note: Updates to all portions of this TM are indicated by a vertical bar in the outer margin of the page.

Dates of issue for original and updated pages/work packages are:

- Original 0 - 2 January 2001
- Change 1 - 5 September 2003
- Change 2 - 2 October 2003
- Change 3 - 27 April 2004
- Change 4 - 31 December 2006
- Change 5 - 1 June 2009
- Change 6 - 20 October 2009

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Change 6

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CURRENT AS OF 30 April 2008

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REPLACE TENT INTERFACE PANEL BOX ASSEMBLY A5 (M1068A3 ONLY).....	0833 00
REPLACE AC POWER EXTENSION BOX A6 AND DC POWER EXTENSION BOX A9 AND MOUNT (M1068A3 ONLY).....	0834 00
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REPLACE DC POWER EXTENSION CABLE (W10) (M1068A3 ONLY).....	0844 00
REPLACE AC LIGHT CABLE (W11) (M1068A3 ONLY).....	0845 00
REPLACE GROUND STRAP (W12) (M1068A3 ONLY).....	0846 00
REPLACE CASCADE REMOTE HARNESS (M1068A3 ONLY).....	0847 00
REPLACE OUTBACK REMOTE CABLE ASSEMBLY (M1068A3 ONLY).....	0847 01
REPLACE HARNESS W32 (M1068A3 ONLY).....	0848 00
REPLACE CABLE W35, CABLE W28, AND CABLE ADAPTER (M1068A3 ONLY).....	0849 00
REPLACE CABLE W38, CABLE W29, AND CABLE ADAPTER (M1068A3 ONLY).....	0850 00
REPLACE SINGLE POINT LAN CABLE (W40) (M1068A3 ONLY).....	0851 00
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REPLACE CABLE W45 (M1068A3 ONLY).....	0853 00
REPLACE LAN A OR B CABLE (W103/W104) (M1068A3 ONLY).....	0854 00
REPLACE CABLE W124 (M1068A3 ONLY).....	0855 00
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REPAIR SPEEDOMETER CABLE.....	0861 00
REPLACE TACHOMETER.....	0862 00
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CHAPTER 24

UNIT MAINTENANCE INSTRUCTIONS
FOR ELECTRICAL EQUIPMENT (M1068A3 ONLY)

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REPLACE ROADSIDE DATA PANEL ASSEMBLY A13 AND BRACKET (M1068A3 ONLY).....	0835 00
REPLACE POWER EXTENSION BOX A18 AND BRACKET (M1068A3 ONLY).....	0836 00
REPLACE POWER DISTRIBUTION CABLE (W3) (M1068A3 ONLY).....	0837 00
REPLACE DC BATTERY CABLE (W4) (M1068A3 ONLY).....	0838 00
REPLACE/REPAIR INVERTER AC CABLE (W5) (M1068A3 ONLY).....	0839 00
REPLACE INVERTER DC CABLE (W6) (M1068A3 ONLY).....	0840 00
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CHAPTER 24
UNIT MAINTENANCE INSTRUCTIONS
FOR ELECTRICAL EQUIPMENT (M1068A3 ONLY)

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<u>Title</u>	<u>Sequence No.</u>
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REPLACE GROUND STRAP (W12) (M1068A3 ONLY).....	0846 00
REPLACE CASCADE REMOTE HARNESS (M1068A3 ONLY).....	0847 00
■ REPLACE OUTBACK REMOTE CABLE ASSEMBLY (M1068A3 ONLY).....	0847 01
REPLACE HARNESS W32 (M1068A3 ONLY).....	0848 00
REPLACE CABLE W35, CABLE W28, AND CABLE ADAPTER (M1068A3 ONLY).....	0849 00
REPLACE CABLE W38, CABLE W29, AND CABLE ADAPTER (M1068A3 ONLY).....	0850 00
REPLACE SINGLE POINT LAN CABLE (W40) (M1068A3 ONLY).....	0851 00
REPLACE CABLES W42, W43, AND W251 (M1068A3 ONLY).....	0852 00
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REPLACE CABLE W126 (M1068A3 ONLY).....	0856 00
REPLACE AC CABLE ASSEMBLY (W252) (M1068A3 ONLY).....	0857 00

REPLACE APIU RACK MOUNT AND BRACKET (M1068A3 ONLY)

0813 00

THIS WORK PACKAGE COVERS:

Removal (page 0813 00-1).
 Installation (page 0813 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 Electronic communication equipment removed (TM 11-7010-256-12)
 Curbside data panel assembly A12 removed (WP 0819 00)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

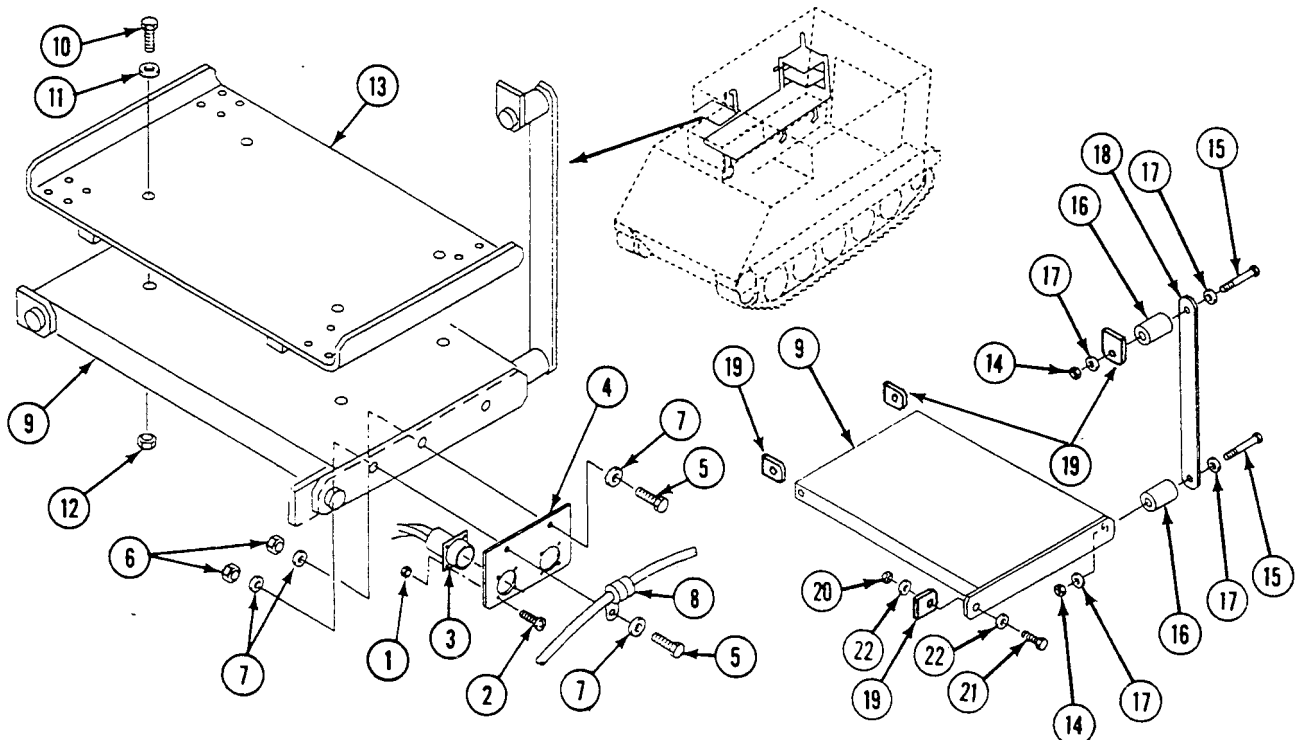
Locknut (15)

Personnel Required

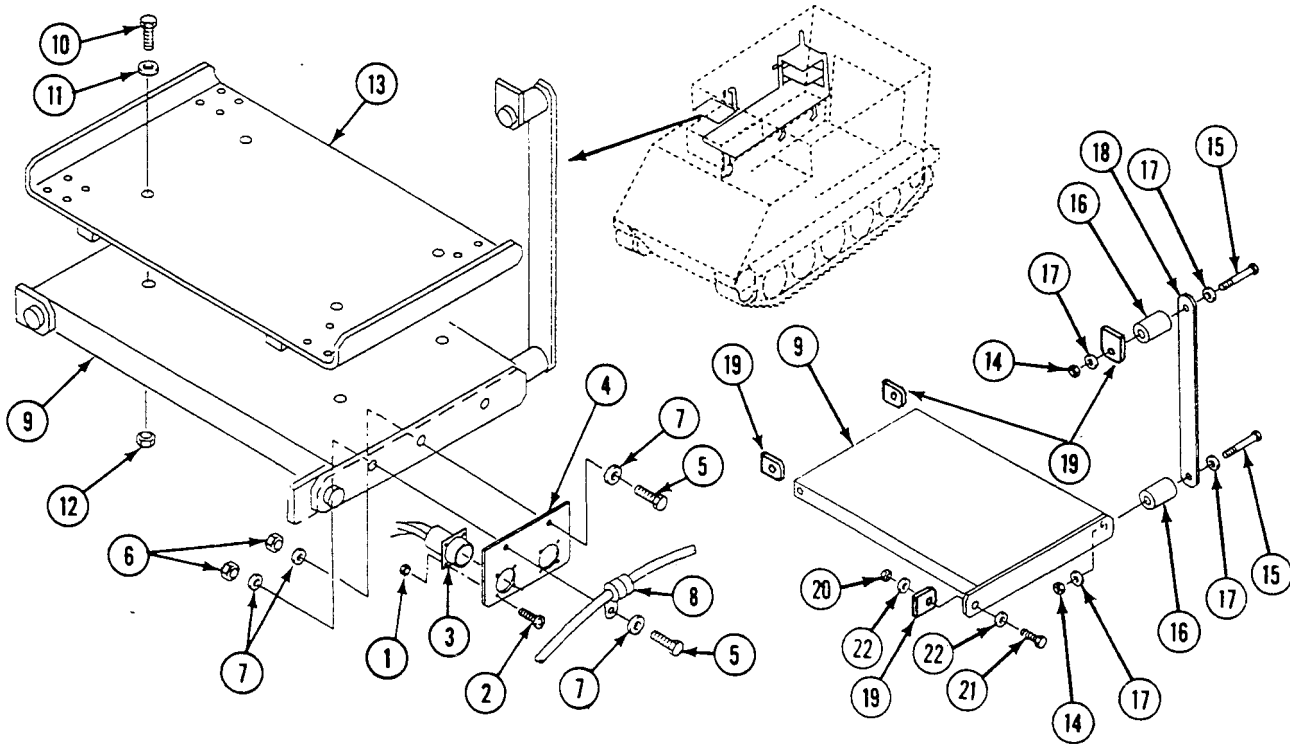
Unit Mechanic

REMOVAL

1. Remove four locknuts (1), screws (2), and receptacle (3) from bracket (4). Discard locknuts.
2. Remove two screws (5), locknuts (6), four washers (7), clamp (8), and bracket (4) from APIU rack (9). Discard locknuts.
3. Remove four screws (10), washers (11), locknuts (12), and mount (13) from APIU rack (9). Discard locknuts.



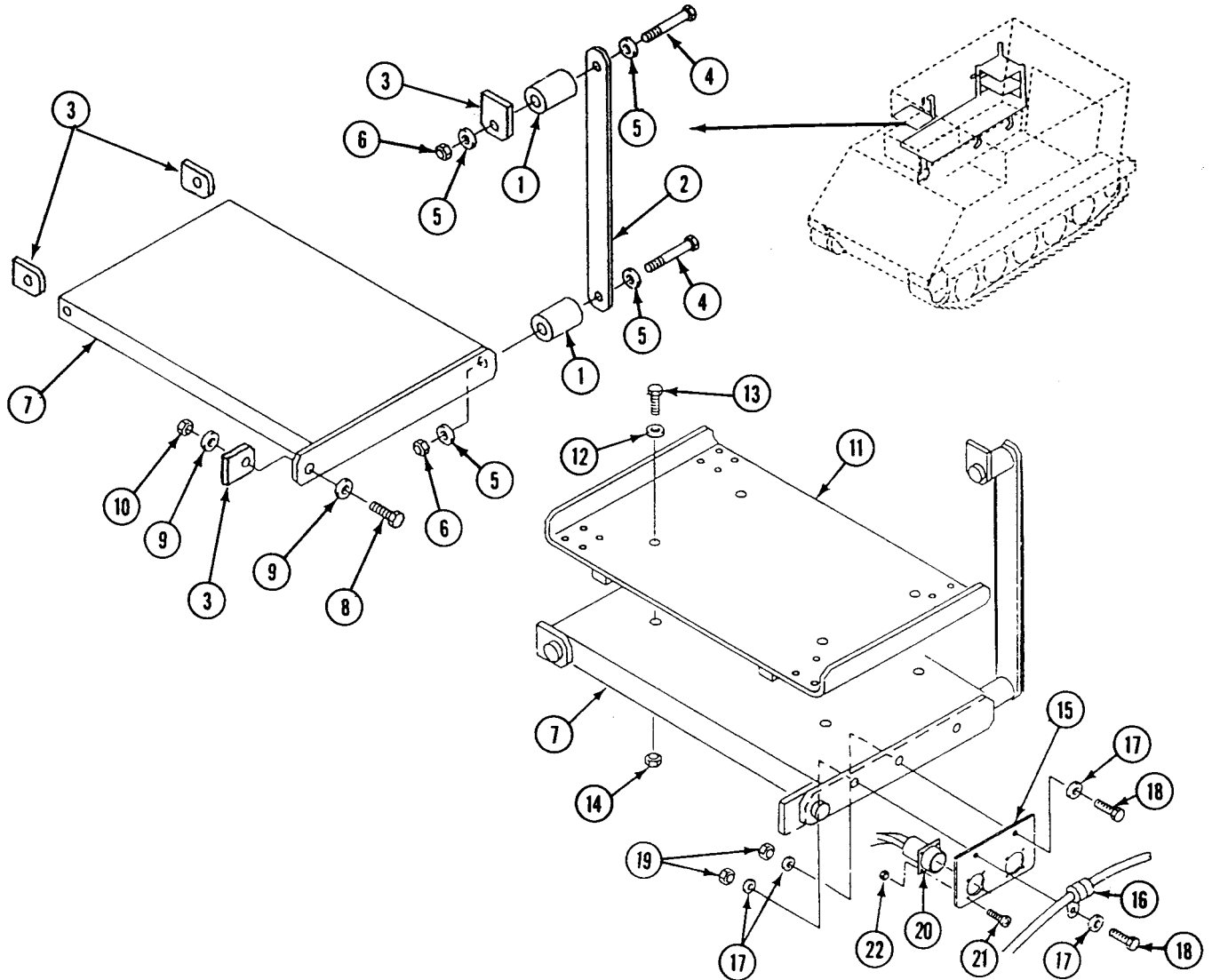
4. Remove two locknuts (14), screws (15), spacers (16), washers (17), and hanger (18) from bulkhead mount (19) and rack (9). Discard locknut.
5. Remove three locknuts (20), screws (21), six washers (22), and rack (9) from three bulkhead mounts (19). Discard locknuts.



INSTALLATION

1. Align spacer (1) and hanger (2) with bulkhead mount (3). Secure with screw (4), two washers (5), and new locknuts (6).
2. Align rack (7) with three bulkhead mounts (3). Secure with three screws (8), six washers (9), and new locknuts (10).
3. Position spacer (1) between rack (7) and hanger (2). Secure with screw (4), two washers (5), and new locknut (6).
4. Install mount (11) on APIU rack (7). Secure with four washers (12), screws (13), and new locknuts (14).
5. Install bracket (15) and clamp (16) on APIU rack (7). Secure with four washers (17), two screws (18), and new locknuts (19).

6. Install receptacle (20) on bracket (15). Secure with four screws (21) and new locknuts (22).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).
2. Install electronic communication equipment (TM 11-7010-256-12&P).
3. Install curbside data panel assembly A12 (WP 0819 00).

END OF TASK

**REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS
(M1068A3 ONLY)**

0814 00

THIS WORK PACKAGE COVERS:

Removal (page 0814 00-1).
Installation (page 0814 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

A.C. power extension box A7 removed (WP 0815 00)

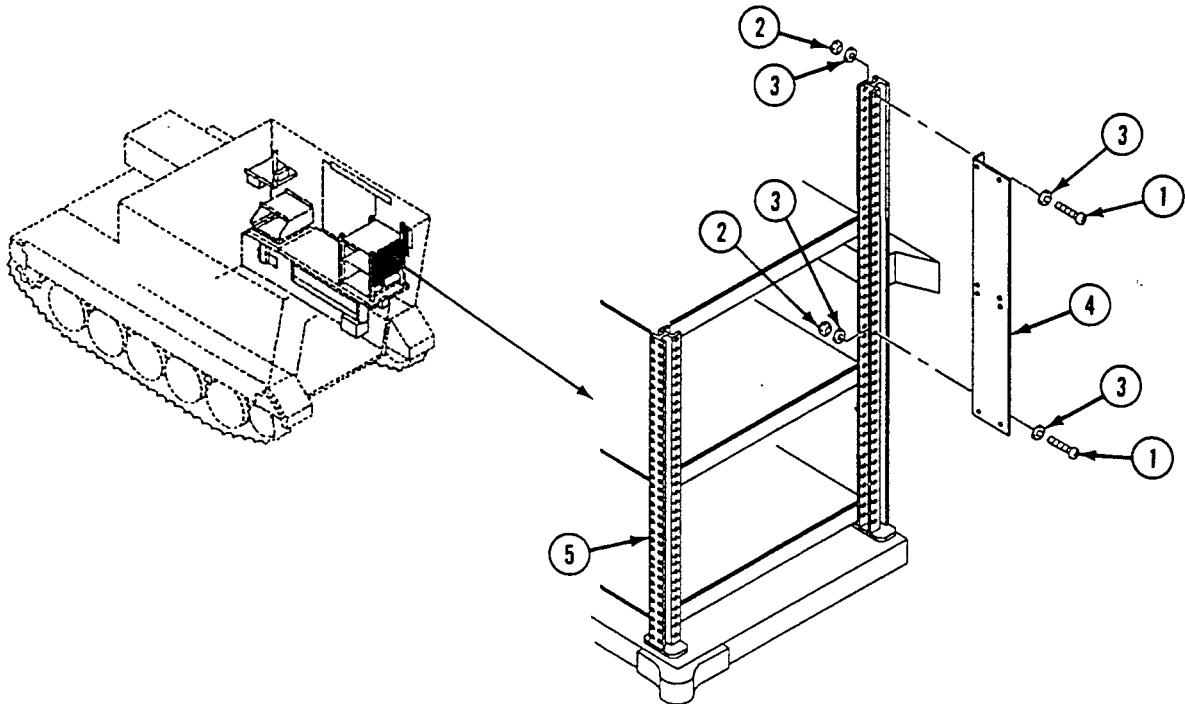
LAN ground box assembly A15 removed (WP 0820 00)

Materials/Parts

Locknut (10)

REMOVAL

1. Remove three screws (1), locknuts (2), six washers (3), and mount (4) from right equipment rack (5). Discard locknuts.

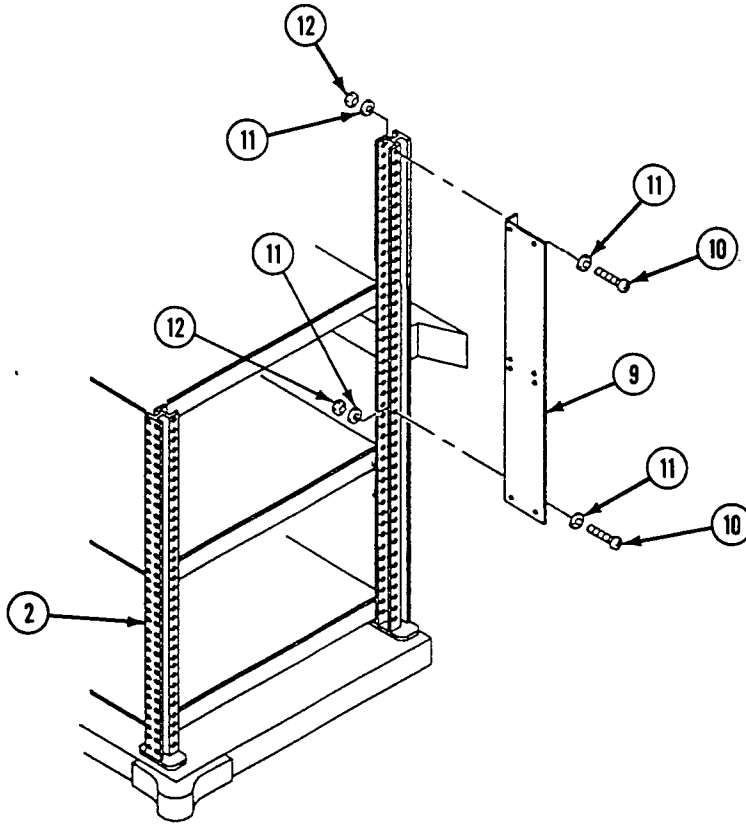


REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS (M1068A3 ONLY) —
Continued

0814 00

INSTALLATION

1. Install mount (9) on right equipment rack (2) with three screws (10), six washers (11), and three new locknuts (12).



FOLLOW-THROUGH STEPS

1. Install LAN ground box assembly A15 (WP 0820 00).
2. Install A.C. power extension box A7 (WP 0815 00).

END OF TASK

REPLACE A.C. POWER EXTENSION BOX A7 (M1068A3 ONLY)

0815 00

THIS WORK PACKAGE COVERS:

Removal (page 0815 00-1).
 Installation (page 0815 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

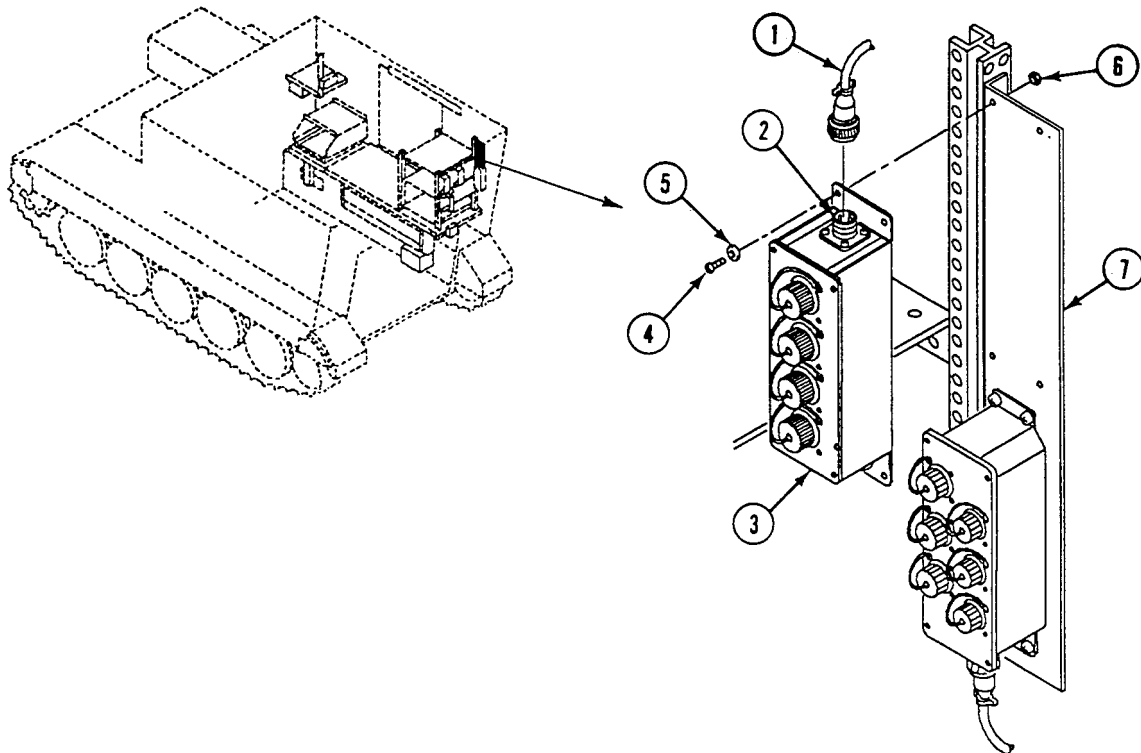
Locknut (4)

Personnel Required

Power-Generation Equipment Repairer 52D10

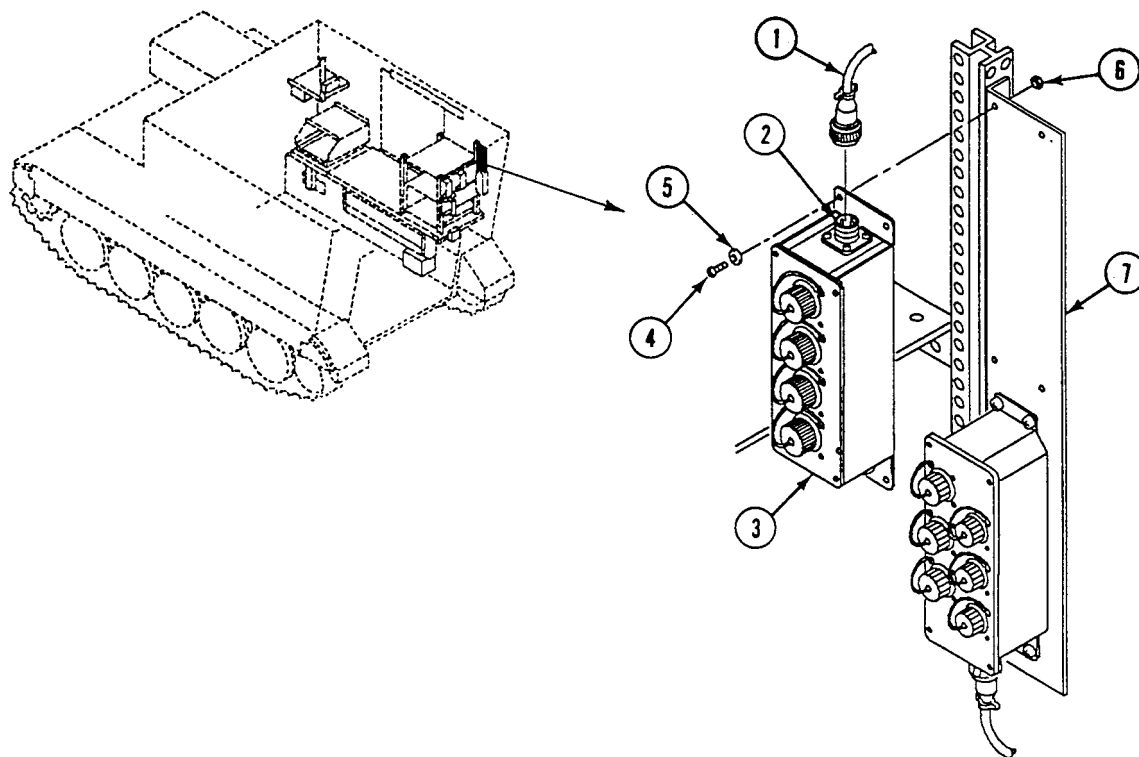
REMOVAL

1. Disconnect cable W8 (1) from connector J1 (2) on A.C. power extension box A7 (3).
2. Remove four screws (4), washers (5), locknuts (6), and A.C. power extension box A7 (3) from mount (7). Discard locknuts.



INSTALLATION

1. Install A.C. power extension box A7 (3), four washers (5), screws (4), and new locknuts (6) on mount (7).
2. Connect cable W8 (1) to connector J1 (2) on A.C. power extension box A7 (3).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE SIGNAL PATCH PANEL BOX A10 (M1068A3 ONLY)

0816 00

THIS WORK PACKAGE COVERS:

Removal (page 0816 00-1).
 Installation (page 0816 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Materials/Parts

Lockwasher (4)

Personnel Required

Signal Support System Specialist 31U10

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

All external power disconnected
 (TM 11-7010-256-12&P)

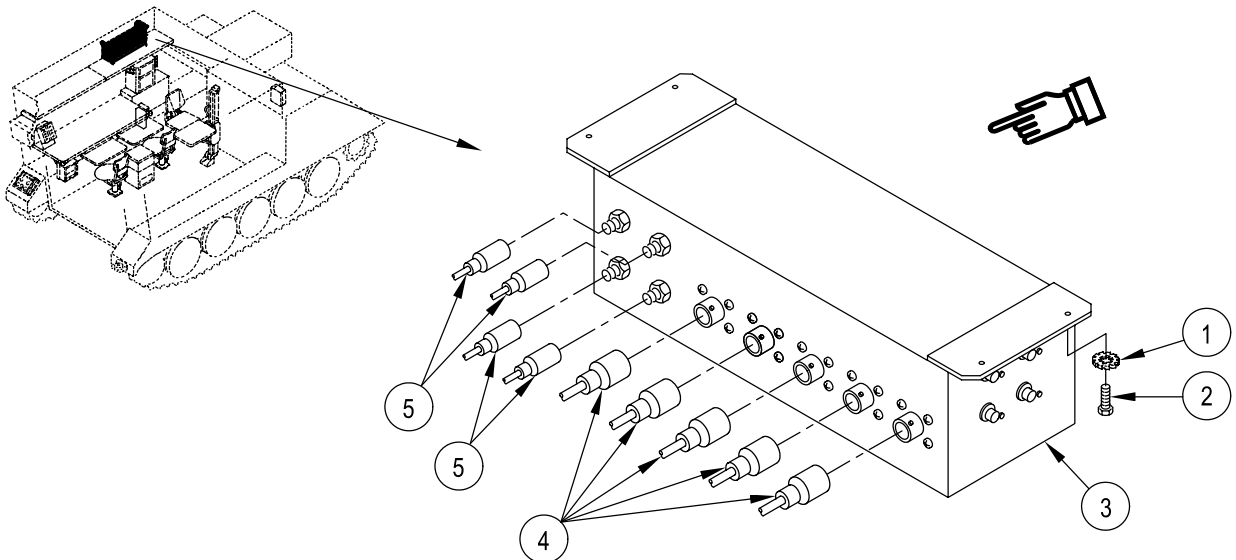
Battery ground lead disconnected (WP 0338 00)

REMOVAL

NOTE

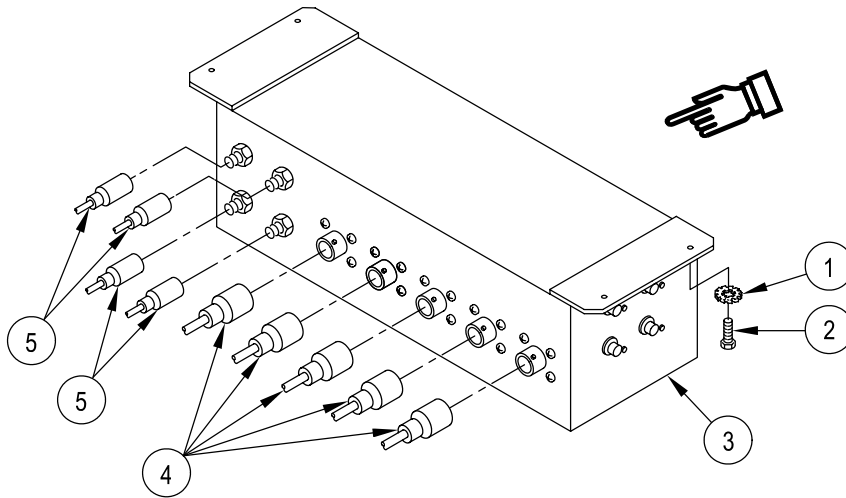
The Signal Patch Panel Box (3) has two mounting options. The alternate mounting option is shown below.

1. Remove four screws (2), lockwashers (1), and patch panel box (3) from hull top. Discard lockwashers.
2. Tag and remove five cables (4) from rear of patch panel box (3).
3. Tag and remove four leads (5) from rear of patch panel box (3).



INSTALLATION

1. Install four leads (5) on rear of patch panel box (3).
2. Install five cables (4) to connectors on rear of patch panel box (3).
3. Install patch panel box (3), four new lockwashers (1), and screws (2) on hull top.

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE EXTERNAL COMMUNICATION BOX A11 (M1068A3 ONLY)

0817 00

THIS WORK PACKAGE COVERS:

Removal (page 0817 00-1).
 Installation (page 0817 00-4).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Materials/Parts

Strap (3)

Personnel Required

Signal Support System Specialist 31U10
 Helper (H)

References

See your -10
 TM 11-7010-256-12

Equipment Condition

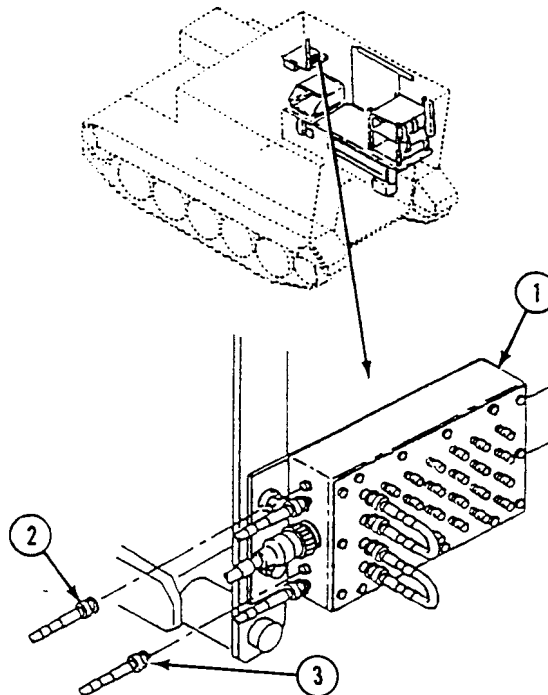
Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected (TM 11-7010-256-12)
 Battery ground lead disconnected (WP 0338 00)

REMOVAL

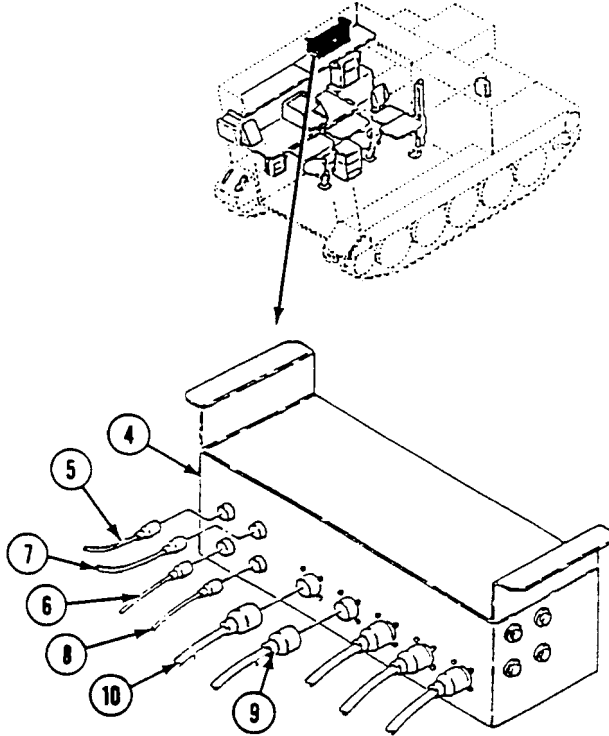
NOTE

Tag all cables for identification before removing them. Replace pads only if damaged.

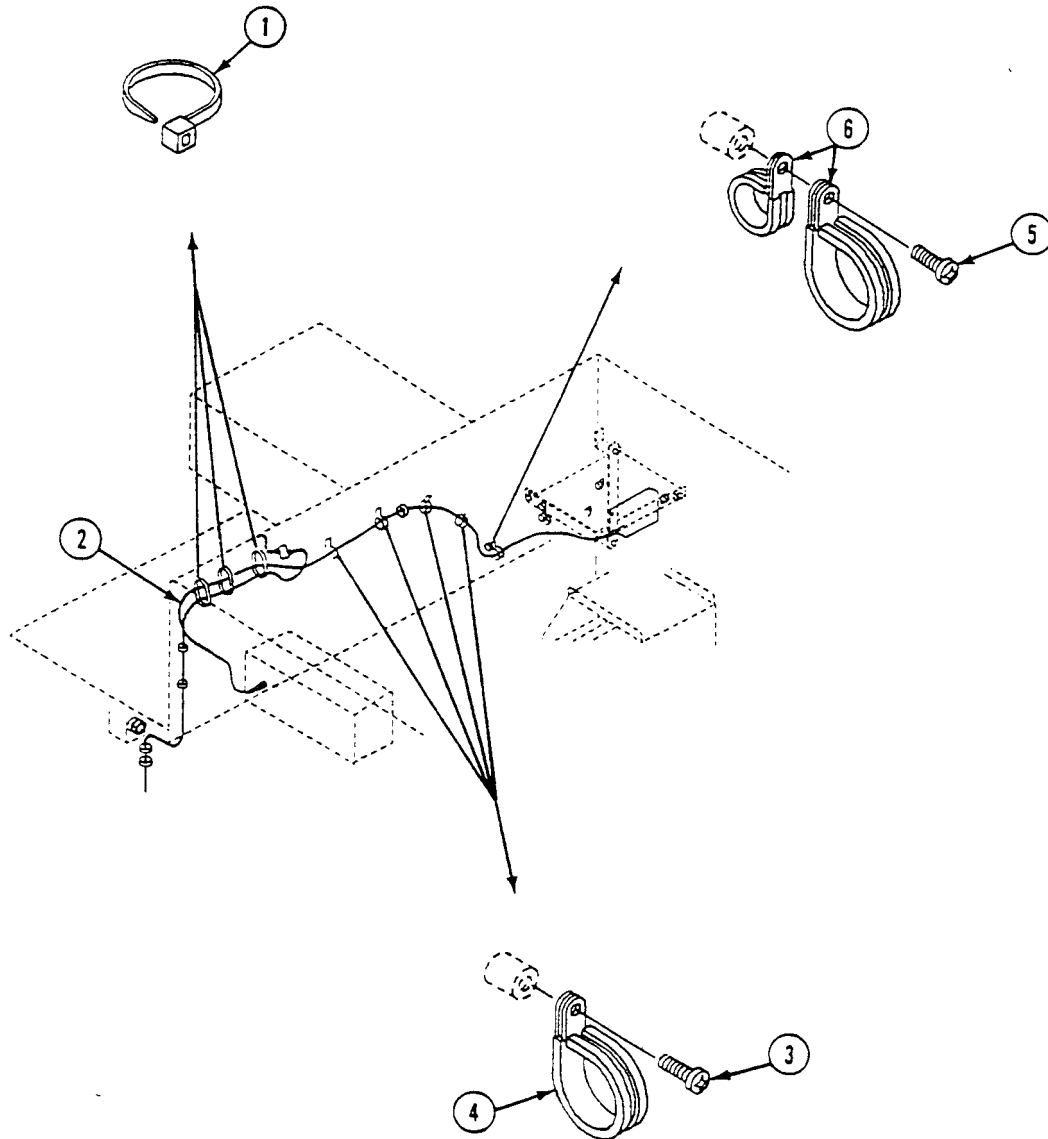
1. Disconnect cable W101 (2) from J1 and cable W102 (3) from J4 and from curbside data panel assembly (1).



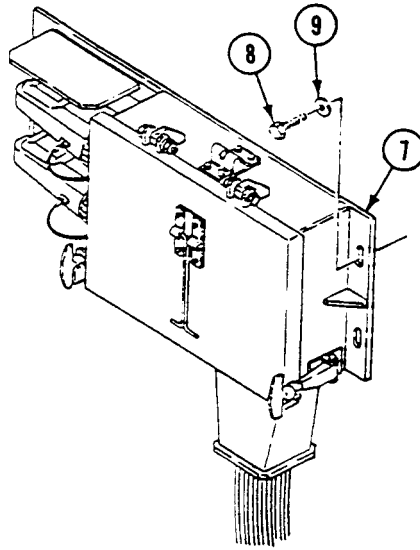
2. Disconnect cable W111 (5) from J125 , cable W112 (6) from J123, cable W113 (7) from J126, cable W114 (8) from J124, cable W115 (9) from J136, and cable W118 (10) from J135 and from signal patch panel box A10 (4).



3. Remove three straps (1) from cable bundle (2). Discard straps.
4. Remove four screws (3) and clamps (4) from cable bundle (2) and carrier.
5. Remove screw (5) and clamp (6) from cable bundle (2) and carrier.

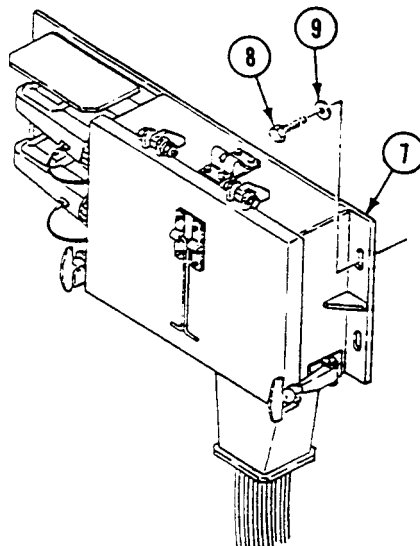


6. Have helper hold external communication box A11 (7) in place. Remove four screws (8) and washers (9) holding box to front bulkhead.
7. Remove external communication box A11 (7). Have helper guide cables through hull opening.

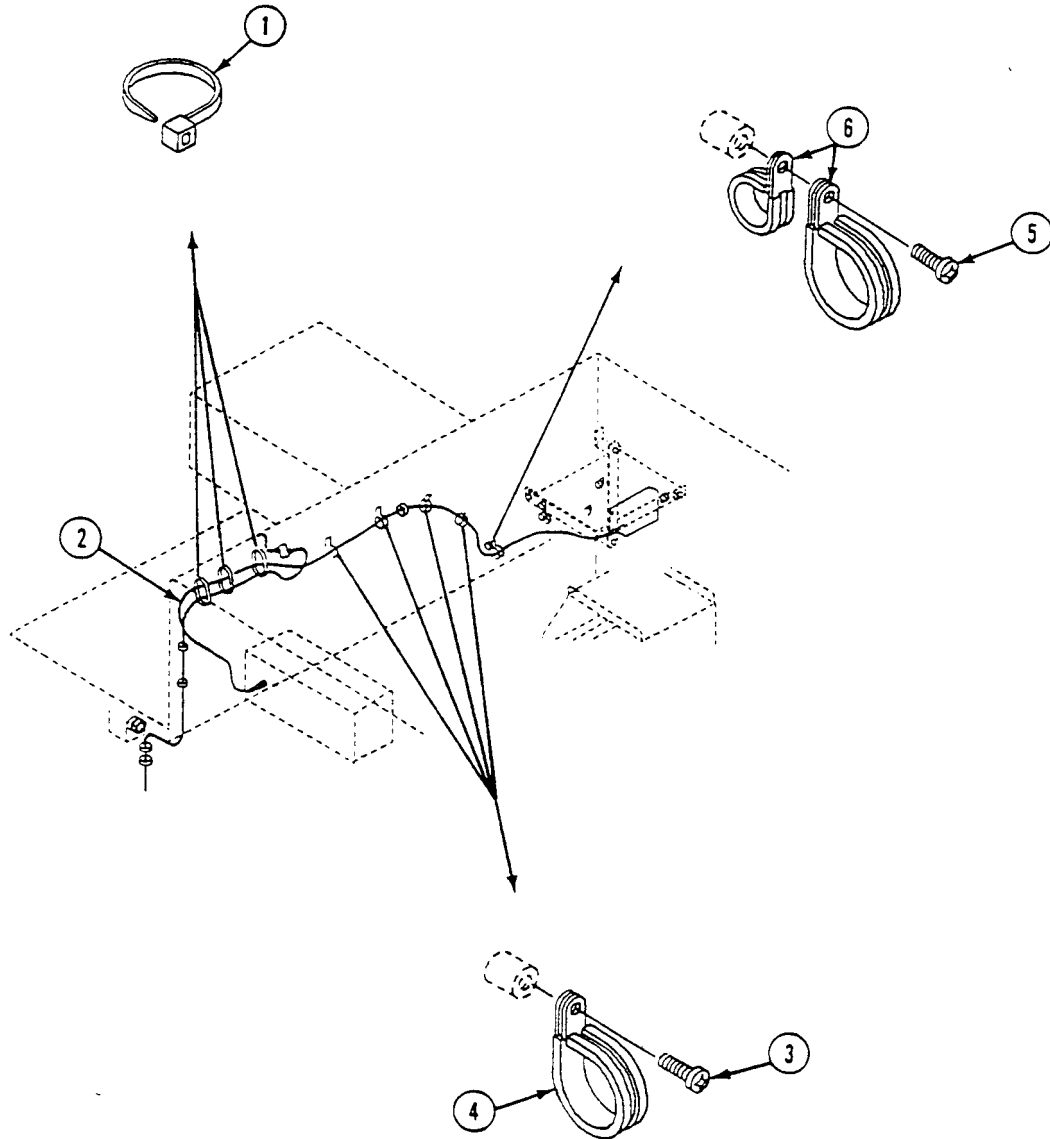


INSTALLATION

1. Position external communication box A11 (7) on front bulkhead. Have helper guide cables through hull opening.
2. Have helper hold external communication box A11 (7) in place. Secure box to front bulkhead with four screws (8) and washers (9).

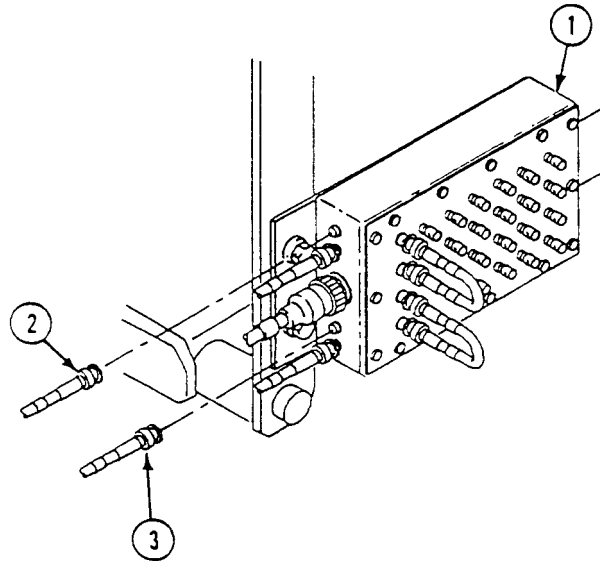


3. Route cable bundle (2) in carrier. Secure with new three straps (1).
4. Secure cable bundle (2) to carrier.

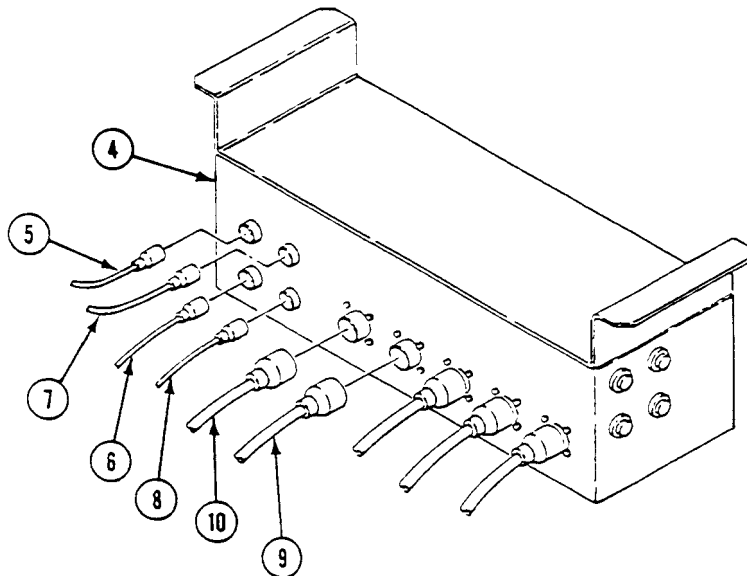


- a. Use four clamps (4) and screws (3).
- b. Use clamp (6) and screw (5).

5. Connect cable W101 (2) from J1 and cable W102 (3) from J4 and (3) to curbside data panel assembly (1).



6. Connect cable W111 (5) from J125, cable W112 (6) from J123, cable W113 (7) from J126, cable W114 (8) from J124, cable W115 (9) from J136, and cable W118 (10) from J135 and to signal patch panel box A10 (4).



FOLLOW THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

**REPLACE EXTERNAL COMMUNICATION BOX A11 LID AND LATCHES
(M1068A3 ONLY)**

0818 00

THIS WORK PACKAGE COVERS:

Removal (page 0818 00-1).
Installation (page 0818 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
All external power cables disconnected
(TM 11-7010-256-12&P).

Materials/Parts

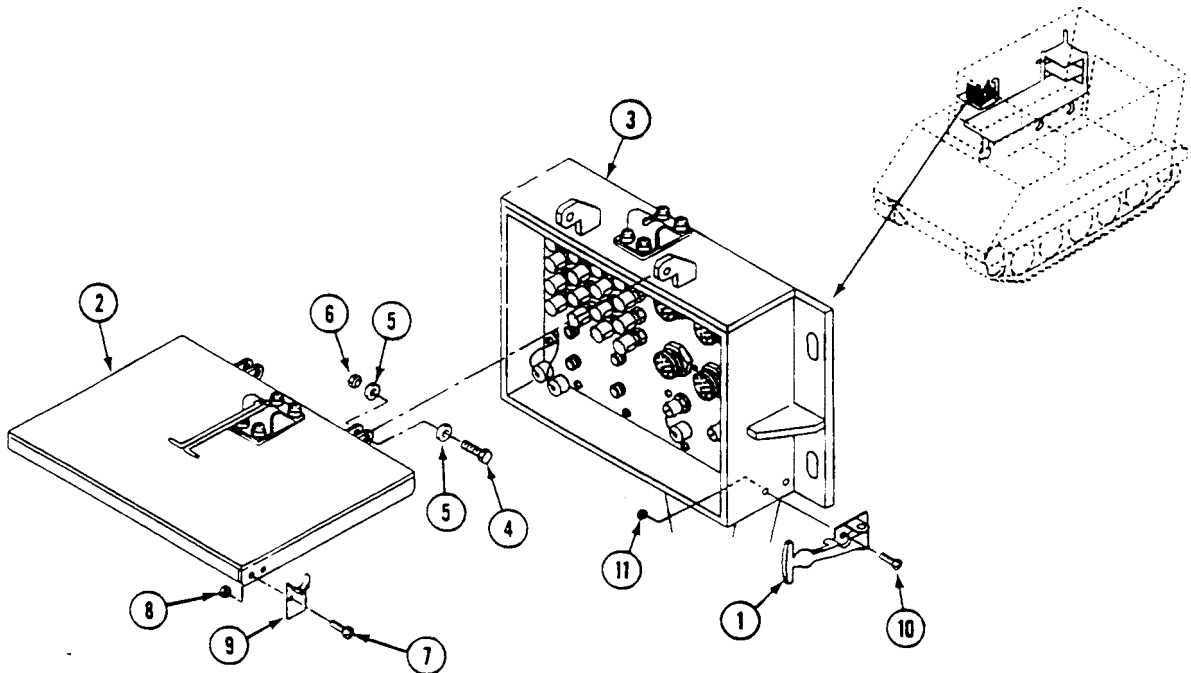
Locknut (2)
Locknut (8)

Personnel Required

Unit Mechanic

REMOVAL

1. Pull out and away two latches (1) from lid (2) on external communication box A11 (3).
2. Remove two screws (4), four washers (5), locknuts (6), and lid (2). Discard locknuts.
3. Remove four screws (7), locknuts (8), and two catches (9) from lid (2). Discard locknuts.
4. Remove four screws (10), locknuts (11), and two latches (1) from external communication box A11 (3). Discard locknuts.

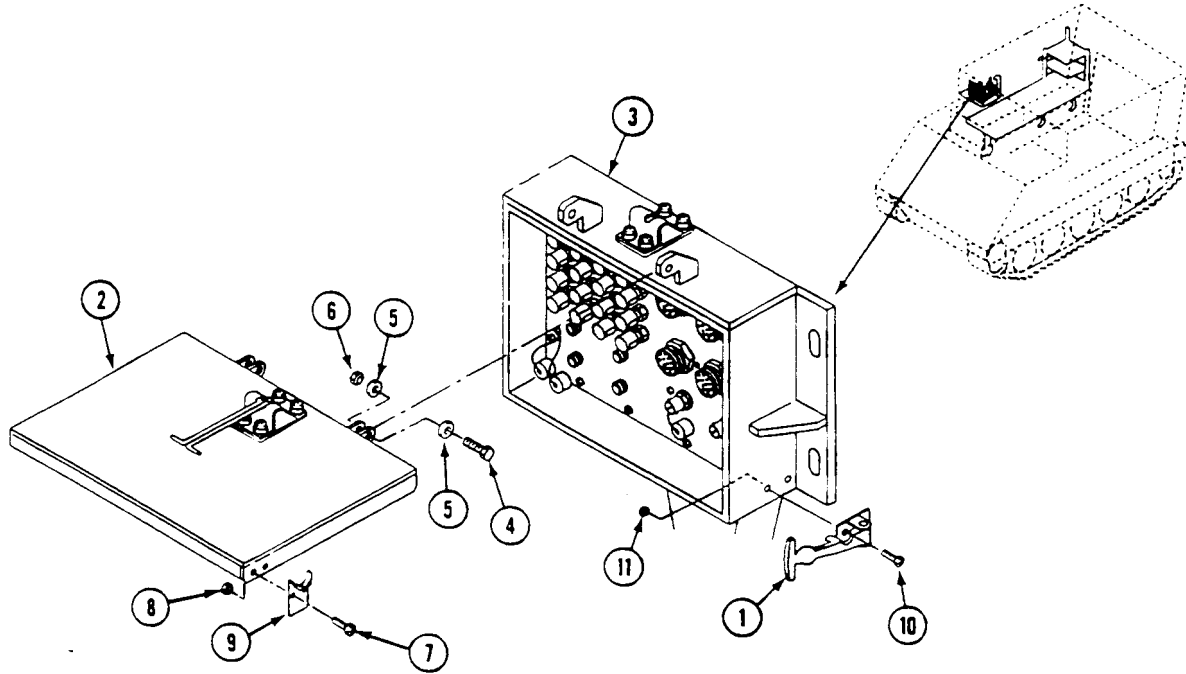


REPLACE EXTERNAL COMMUNICATION BOX A11 LID AND LATCHES (M1068A3 ONLY)
 — Continued

0818 00

INSTALLATION

1. Install two latches (1), four screws (10), and new locknuts (11) on external communication box A11 (3).
2. Install two catches (9), four screws (7) and new locknuts (8) on lid (2).
3. Install lid (2), two screws (4), four washers (5), and new locknuts (6) on external communication box A11 (3).
4. Secure lid (2) on external communication box A11 (3) with latches (1).



END OF TASK

REPLACE CURBSIDE DATA PANEL ASSEMBLY A12 (M1068A3 ONLY)

0819 00

THIS WORK PACKAGE COVERS:

Removal (page 0819 00-1).
 Installation (page 0819 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Signal Support System Specialist 31U10

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

References

See your -10

Materials/Parts

Locknut (2)

Equipment Condition

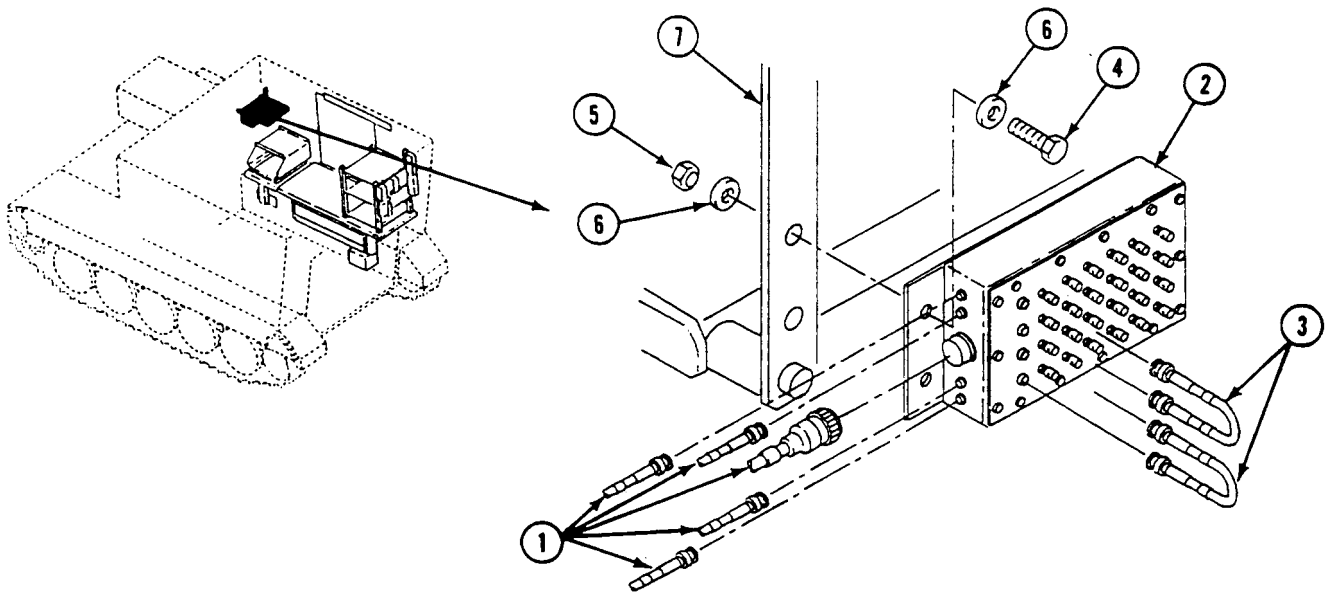
Engine stopped (see your -10)
 Carrier blocked (see your -10)

REMOVAL

NOTE

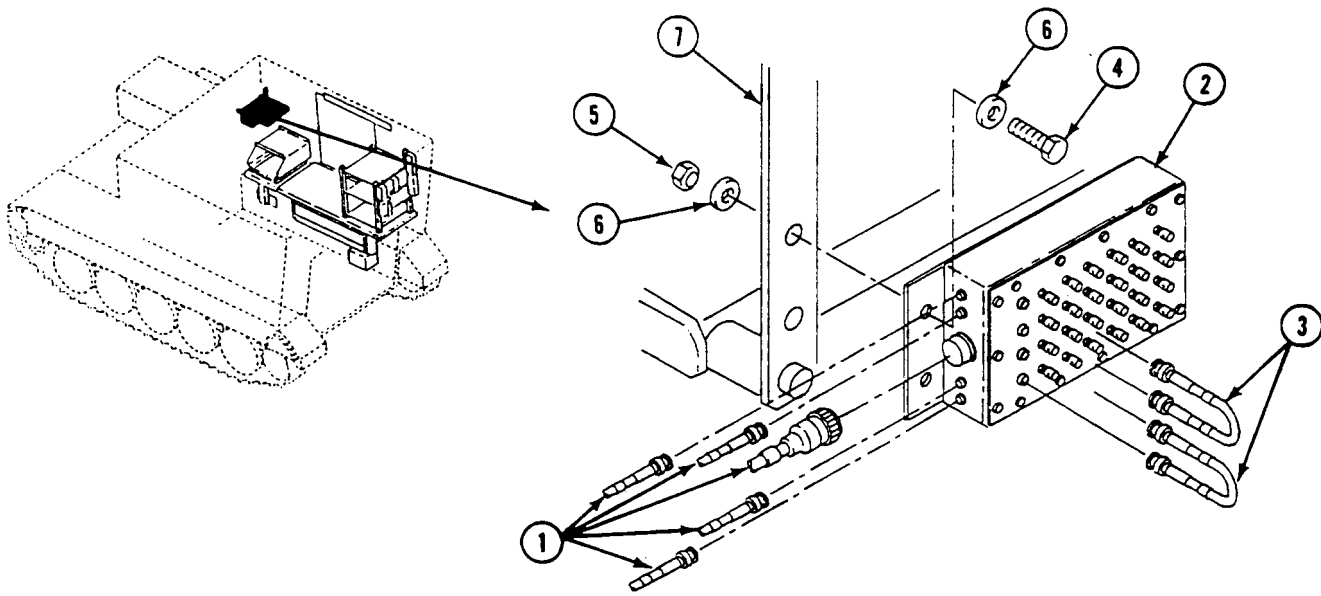
Tag all cables for reassembly.

1. Disconnect five cables (1) from curbside data panel assembly (2).
2. Remove two cables (3) from curbside data panel assembly (2).
3. Remove two screws (4), locknuts (5), four washers (6), and curbside data panel assembly (2) from hanger (7). Discard locknuts.



INSTALLATION

1. Install curbside data panel assembly (2), two screws (4), four washers (6), and two new locknuts (5) on hanger (7).
2. Install two cables (3) on curbside data panel assembly (2).
3. Connect five cables (1) to curbside data panel assembly (2).

**END OF TASK**

REPLACE LAN GROUND BOX ASSEMBLY A15 (M1068A3 ONLY)

0820 00

THIS WORK PACKAGE COVERS:

Removal (page 0820 00-1).
 Installation (page 0820 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Equipment Condition

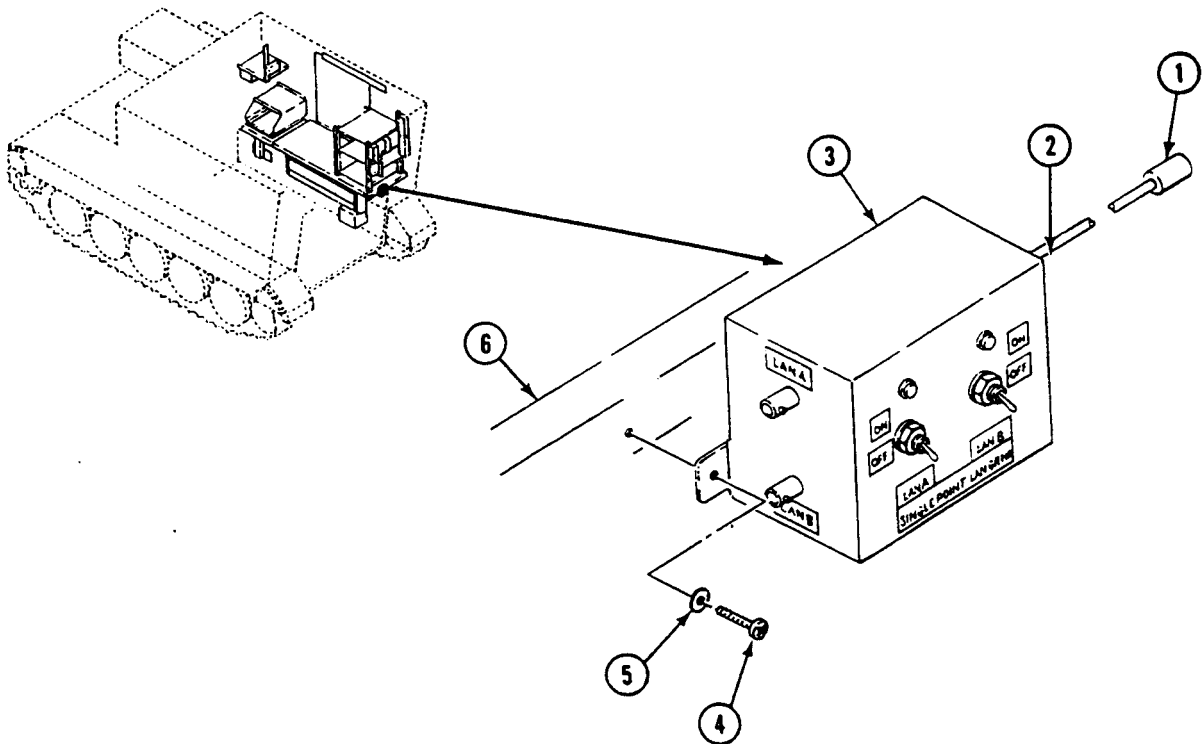
Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Personnel Required

Signal Support System Specialist 31U10

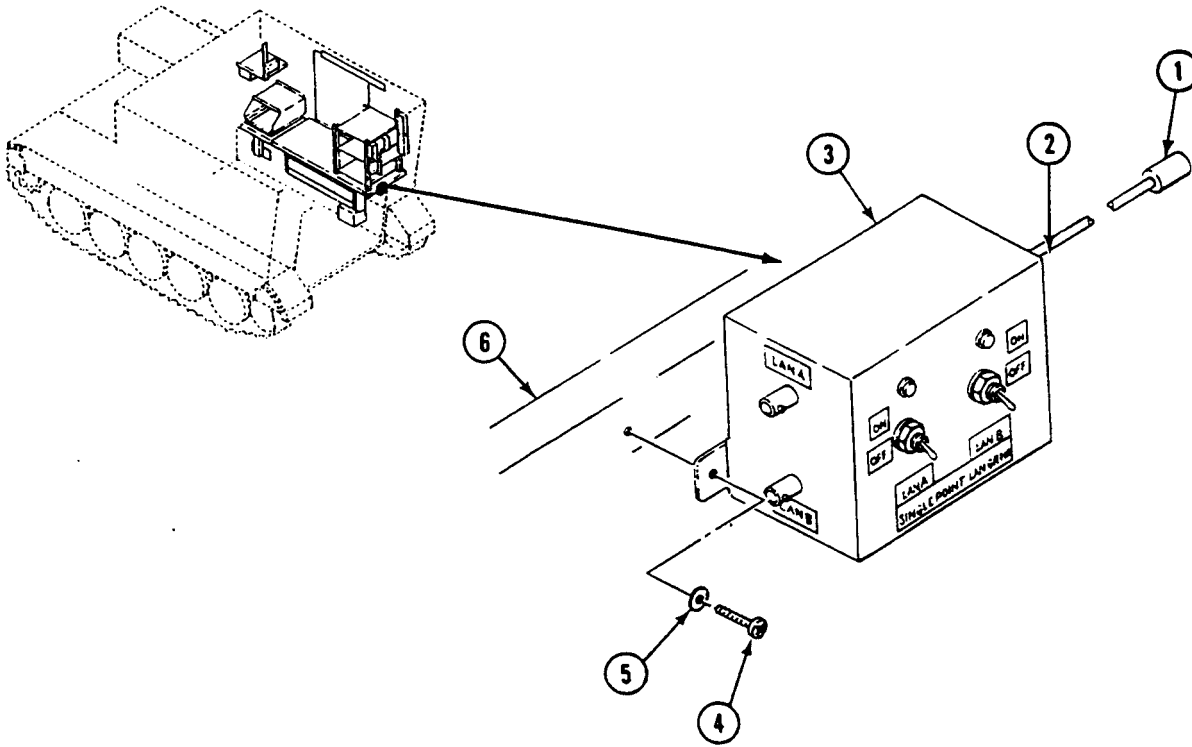
REMOVAL

1. Disconnect cable W40 (1) from connector J1 (2) on LAN ground box (3).
2. Remove two screws (4), washers (5), and LAN ground box (3) from work station rack base (6).



INSTALLATION

1. Install LAN ground box (3), two washers (5), and screws (4) on work station rack base (6).
2. Connect cable W40 (1) to connector J1 (2) on LAN ground box (3).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPAIR LAN GROUND BOX ASSEMBLY A15 (M1068A3 ONLY)

0821 00

THIS WORK PACKAGE COVERS:

Disassembly (page 0821 00-1).
 Assembly (page 0821 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Equipment Condition

LAN ground box assembly A15 removed (WP 0820 00)

Personnel Required

Signal Support System Specialist 31U10

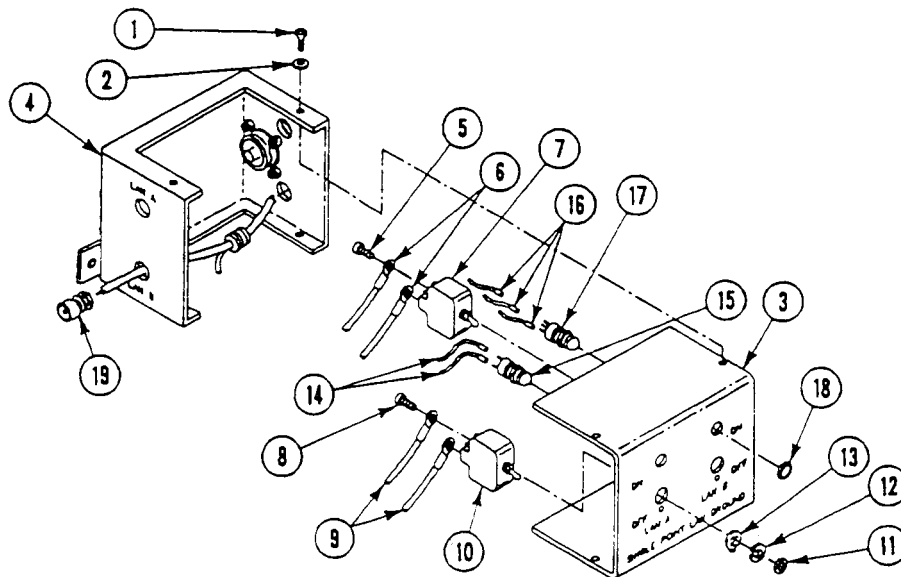
DISASSEMBLY

1. Remove four screws (1), washers (2), and box (3) from box mount (4).

NOTE

Tag all leads before removal for proper installation later.

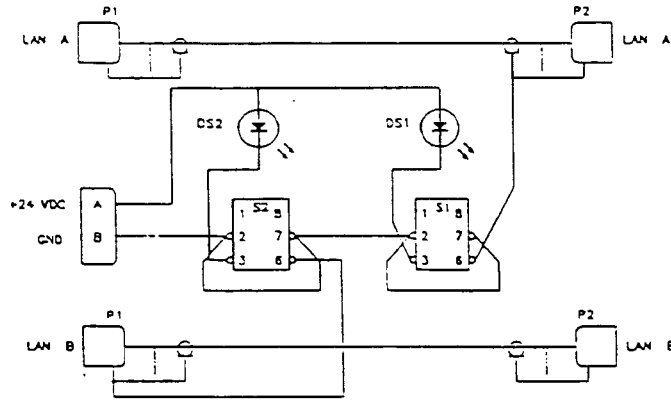
2. Remove four screws (5) and five leads (6) from switch S2 (7).
3. Remove four screws (8) and leads (9) from switch S1 (10).
4. Remove two jamnuts (11), lockwashers (12), lockring (13), and switches (7)(10) from box (3).
5. Disconnect two leads (14) from light DS1 (15).
6. Disconnect three leads (16) from light DS2 (17).
7. Remove two nuts (18) and lights (15)(17) from box (3).
8. Remove any of four connectors (19) from box mount (4), but only if necessary.



ASSEMBLY

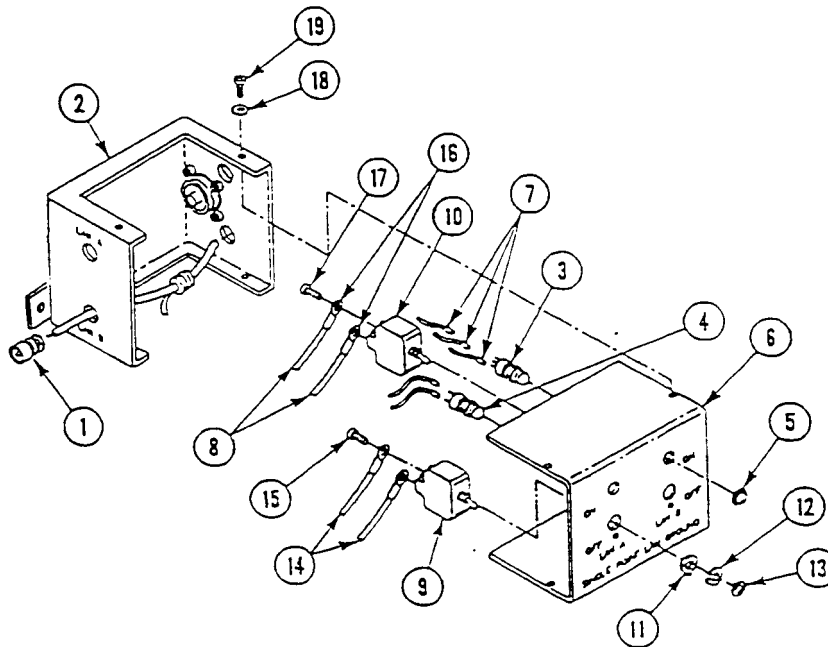
NOTE

Use wiring diagram.

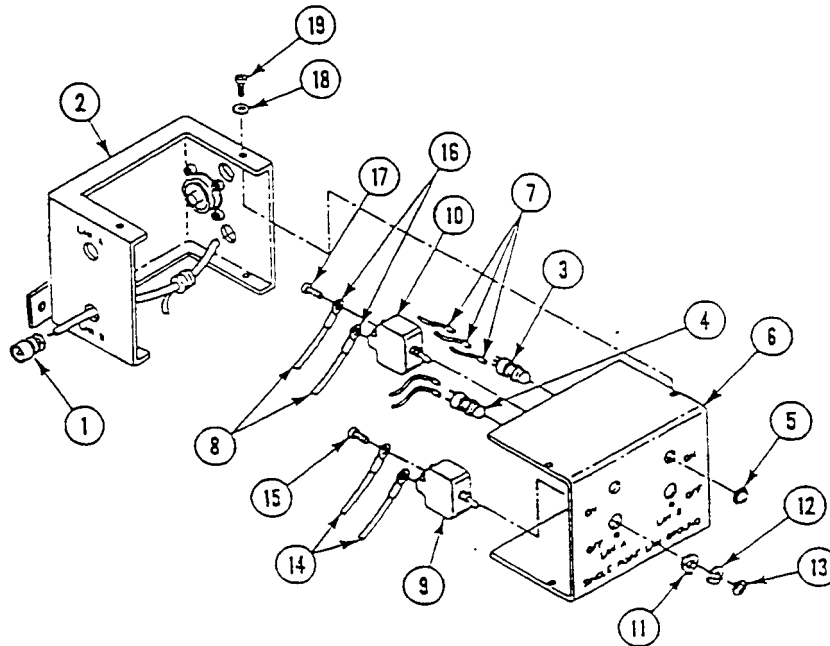


WIRING DIAGRAM

1. If any of four connectors (1) were removed from box mount (2), install as necessary.
2. Install two lights (3)(4) and nuts (5) on box (6).



3. Connect three leads (7) to light DS2 (3).
4. Connect two leads (8) to light DS1 (4).
5. Install two switches (9)(10), two lockrings (11), lockwashers (12), and jamnuts (13) on box (6).
6. Install four leads (14) and screws (15) on switch S1 (9).
7. Install five leads (16) and four screws (17) on switch S2 (10).
8. Install box (6), four washers (18), and screws (19) on box mount (2).



FOLLOW-THROUGH STEPS

1. Install LAN ground box assembly A15 (WP 0820 00).

END OF TASK

REPLACE A.C. POWER EXTENSION BOX A19 (M1068A3 ONLY)

0822 00

THIS WORK PACKAGE COVERS:

- Removal (page 0822 00-1).
- Installation (page 0822 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)

Materials/Parts

Locknut (4)

Carrier blocked (see your -10)

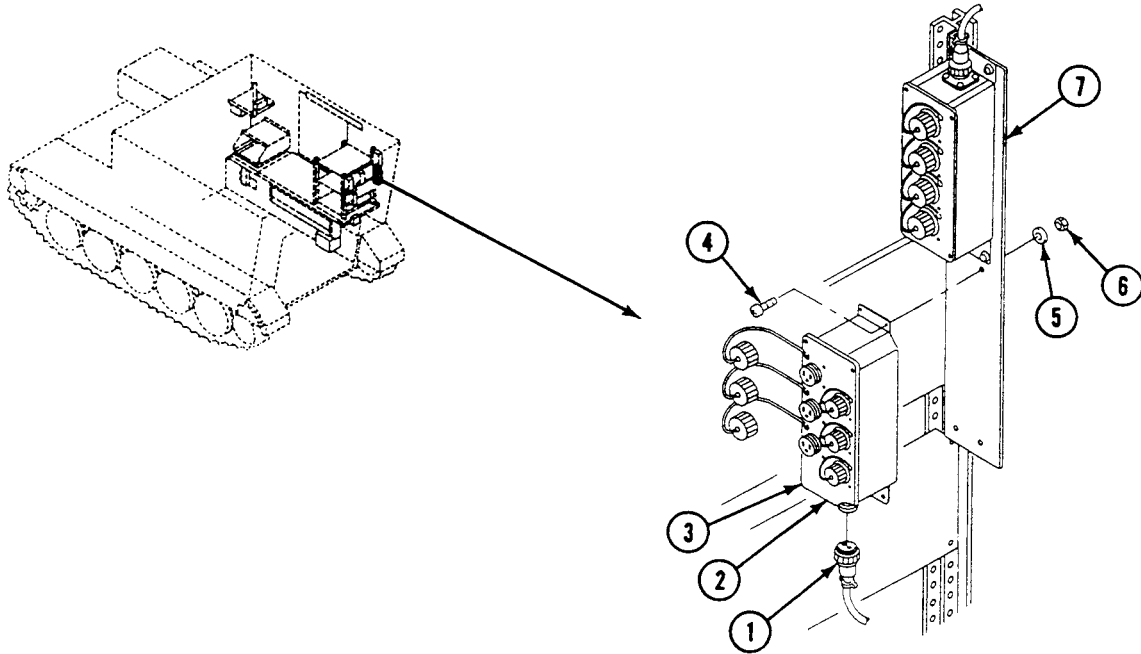
Personnel Required

Power-Generation Equipment Repairer 52D10

Battery ground lead disconnected (WP 0338 00)

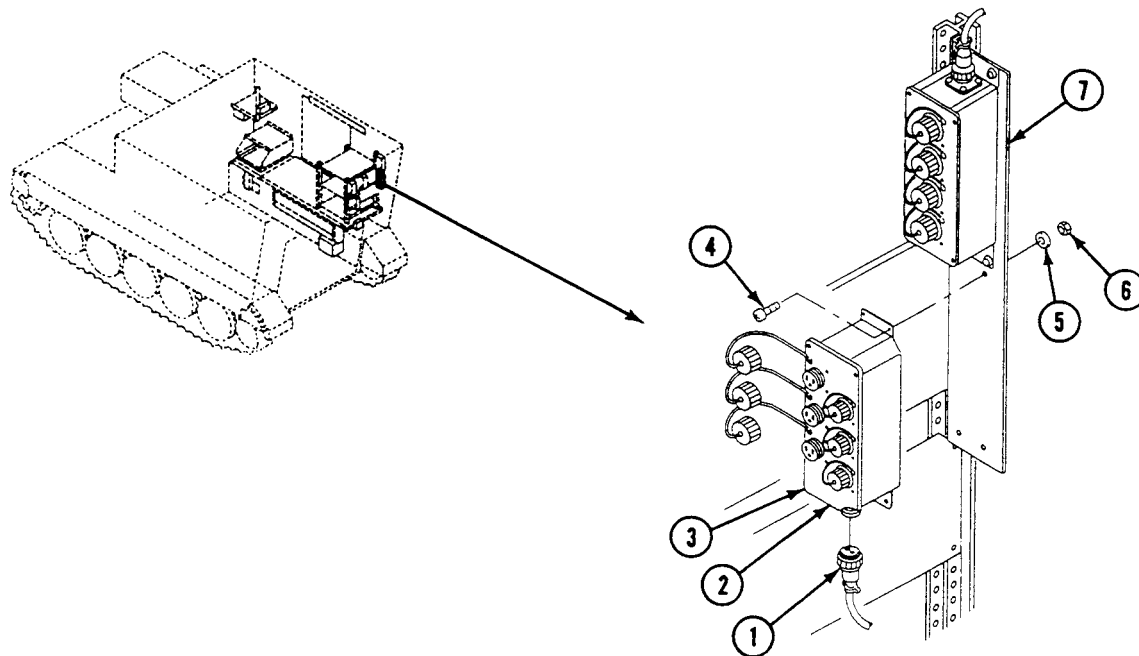
REMOVAL

1. Disconnect cable W252 (1) from connector J15 (2) on A.C. power extension box A19 (3).
2. Remove four screws (4), washers (5), locknuts (6), and A.C. power extension box A19 (3) from mount (7). Discard locknuts.



INSTALLATION

1. Install A.C. power extension box A19 (3), four washers (5), screws (4), and new locknuts (6) on mount (7).
2. Connect cable W252 (1) to connector J15 (2) on A.C. power extension box A19 (3).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE/REPAIR PRINTER MOUNT (M1068A3 ONLY)

0823 00

THIS WORK PACKAGE COVERS:

Removal (page 0823 00-1).
 Installation (page 0823 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Materials/Parts

Locknut (40)
 Lockwasher (16)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Electronic equipment removed TM 11-7010-256-12&P

Personnel Required

Unit Mechanic

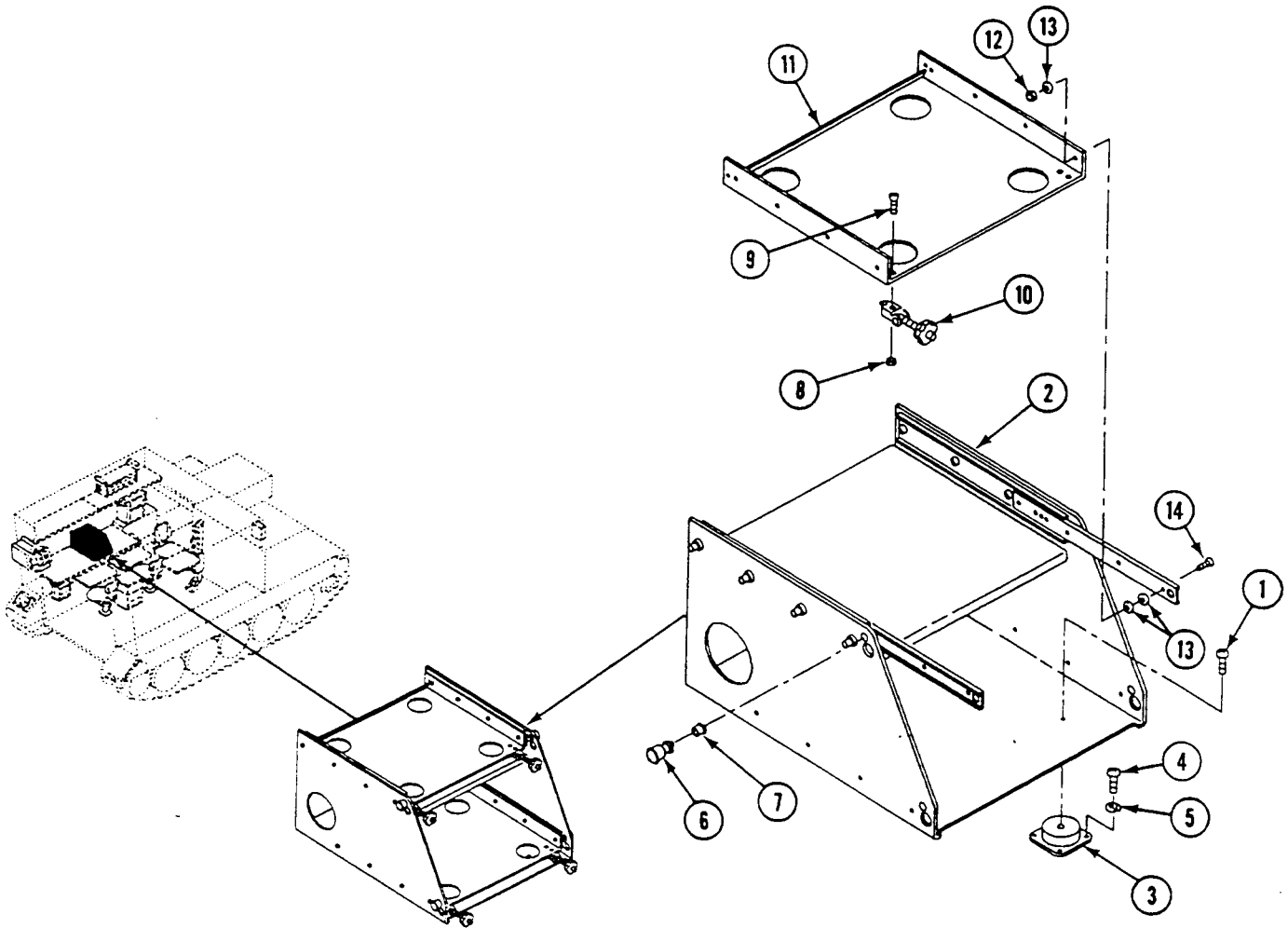
REMOVAL

NOTE

Art is shown for top shelf only. The bottom shelf is replaced in the same way as the top shelf.

1. Remove four screws (1) and printer mount (2) from four shock mounts (3).

2. Remove 16 screws (4), lockwashers (5), and four shock mounts (3) from operator's station. Discard lockwashers.
3. Remove two latch knob assemblies (6) and latch sleeves (7) from printer mount (2).
4. Remove eight locknuts (8), screws (9), and four retainers (10) from two shelves (11). Discard locknuts.
5. Extend top shelf (11) and remove eight locknuts (12), washers and shims (13), screws (14), and shelf from printer mount (2). Discard locknuts.



6. Extend bottom shelf (1) and remove eight locknuts (2), washers and shims (3), screws (4), and shelf from printer mount (5). Discard locknuts.
7. Remove 16 locknuts (6), washers (7), screws (8), and four slides (9) from printer mount (5). Discard locknuts.

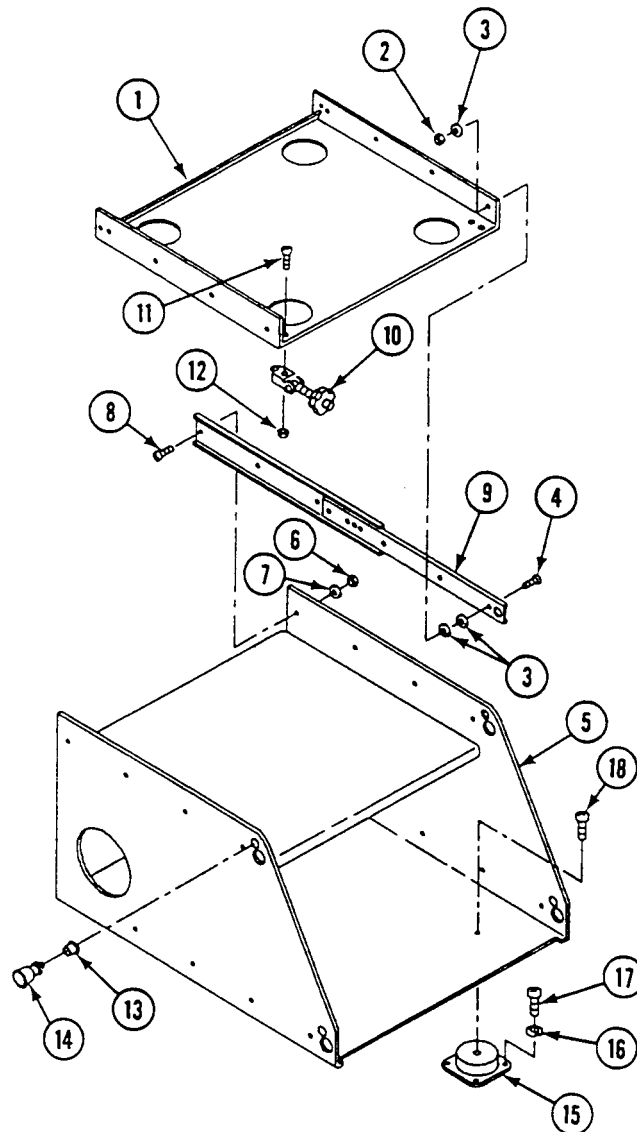
INSTALLATION

1. Install four slides (9), 16 screws (8), washers (7), and new locknuts (6) on printer mount (5).

NOTE

Additional washers are used as shims. Separate the washers evenly on each side of the shelf.

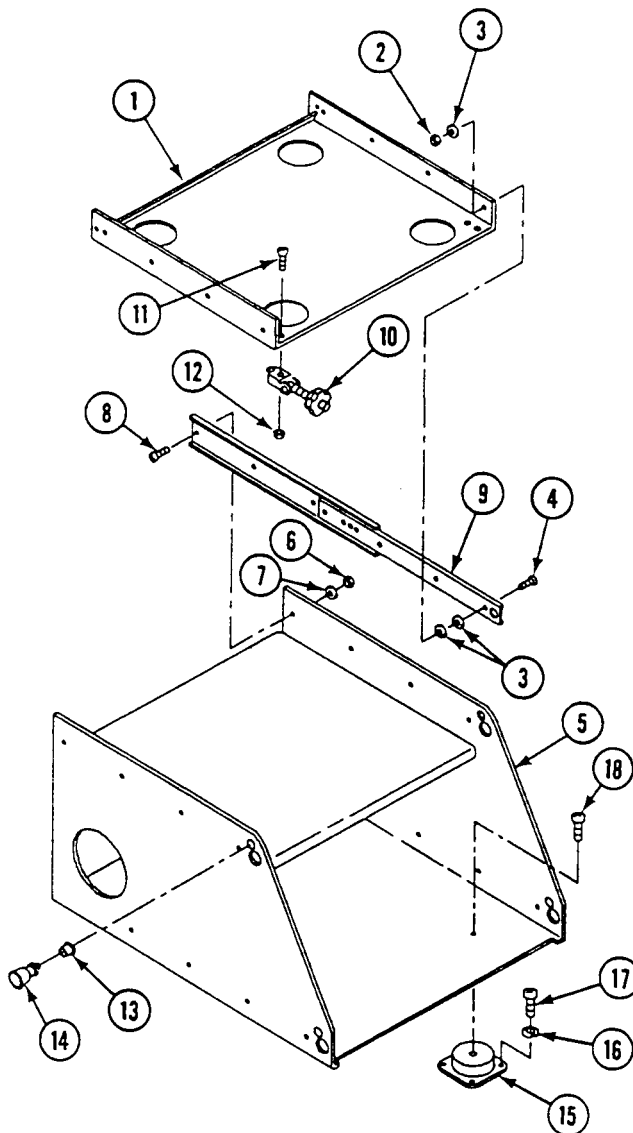
2. Install bottom shelf (1), eight screws (4), washers and shims (3) as required, and new locknuts (2) on printer mount (5).



REPLACE/REPAIR PRINTER MOUNT (M1068A3 ONLY) — Continued

0823 00

3. Install top shelf (1), eight screws (4), washers and shims (3) as required, and new locknuts (2) on printer mount (5).
4. Install four retainers (10), eight screws (11), and new locknuts (12) on two shelves (1).
5. Install two latch sleeves (13) and latch knob assemblies (14) on printer mount (5).
6. Install four shock mounts (15), 16 new lockwashers (16), and screws (17) on operator's station.
7. Install printer mount (5) and four screws (18) on four shock mounts (15).



FOLLOW-THROUGH STEPS

1. Install electronic equipment. See (TM 11-7010-256-12).

END OF TASK

REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY (M1068A3 ONLY)

0824 00

THIS WORK PACKAGE COVERS:

- Removal (page 0824 00-2).
- Disassembly (page 0824 00-3).
- Assembly (page 0824 00-5).
- Installation (page 0824 00-7).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
UPS power supply removed TM 11-7010-256-12&P
Cables W42, W43, and W251 disconnected
(WP 0852 00)
Stowage items removed from stowage box

Materials/Parts

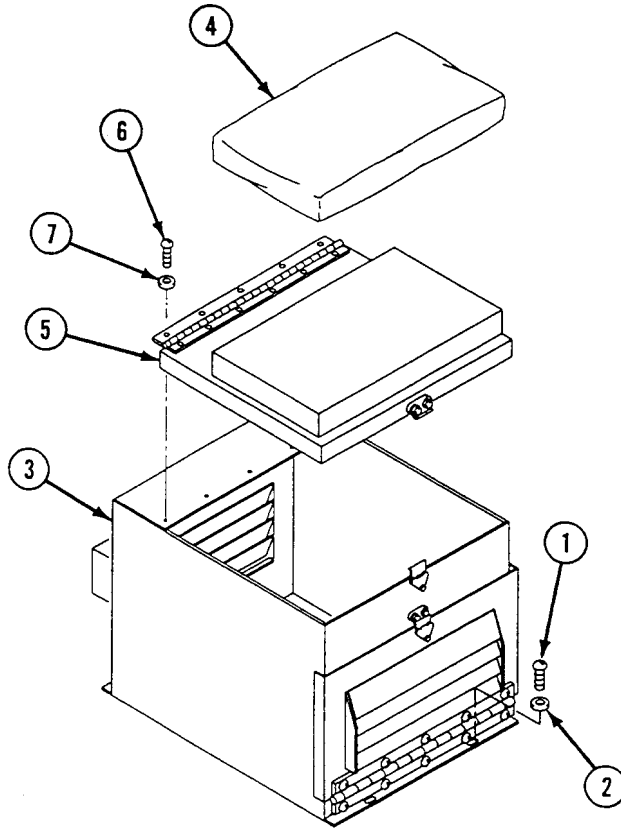
Locknut (5)
Lockwasher (15)

Personnel Required

Unit Mechanic

REMOVAL

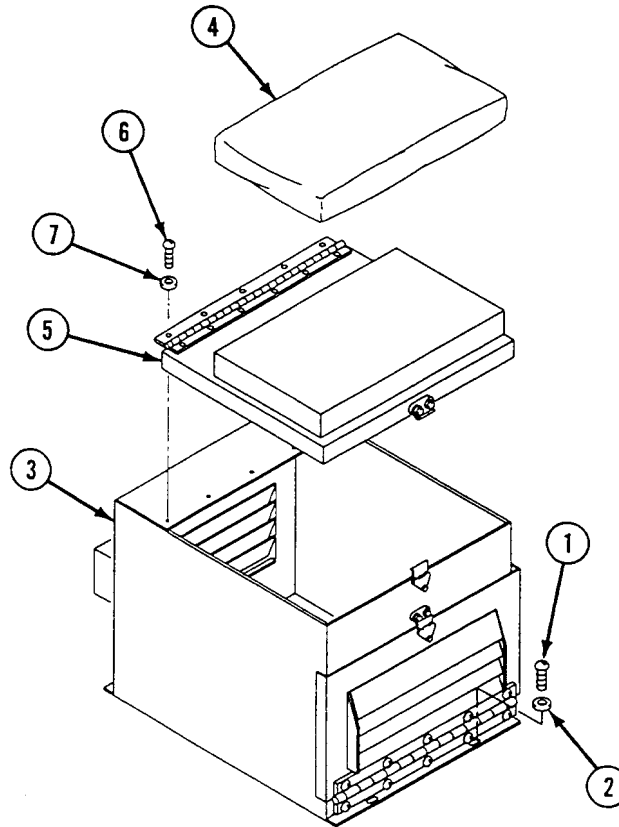
1. Remove four screws (1), washers (2), and storage box (3) from carrier.



DISASSEMBLY**NOTE**

Remove seat cushion pad from seat cushion cover only if necessary.

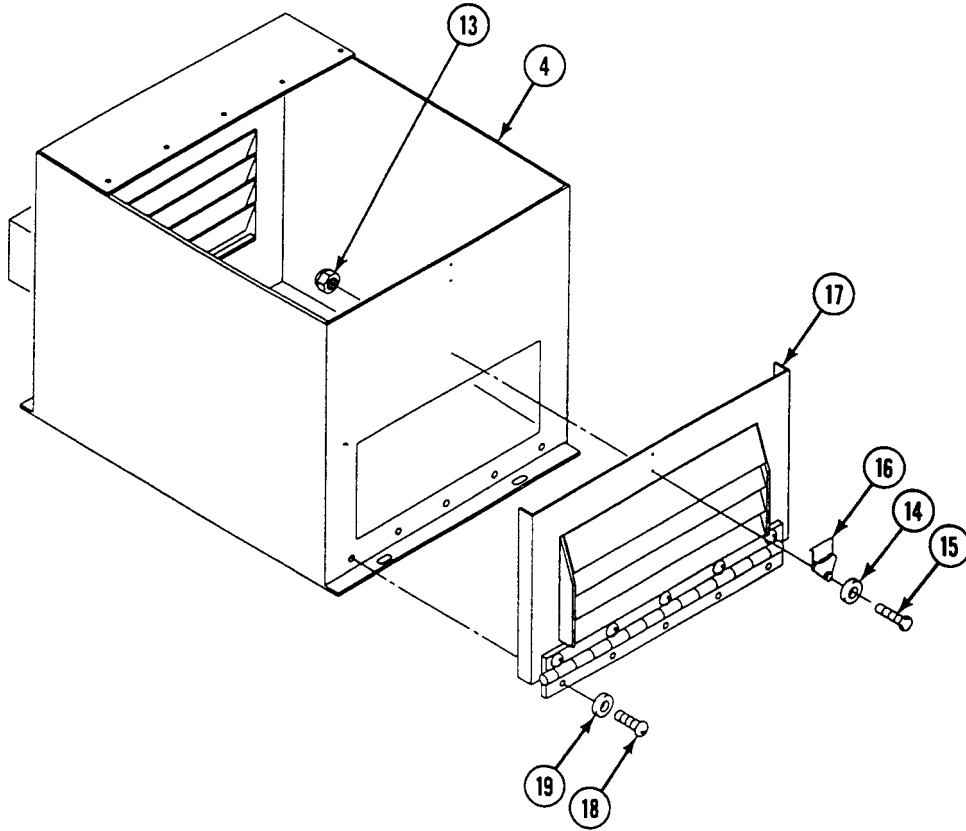
1. Remove seat cushion (4) from lid (5).
2. Remove five screws (6), lockwashers (7), and lid (5) from box (3). Discard lockwashers.



REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY (M1068A3 ONLY) —
Continued

0824 00

3. Remove locknut (13), washer (14), screw (15), and catch (16) from cover (17). Discard locknut.
4. Remove four screws (18), washers (19), and cover (17) from box (4).

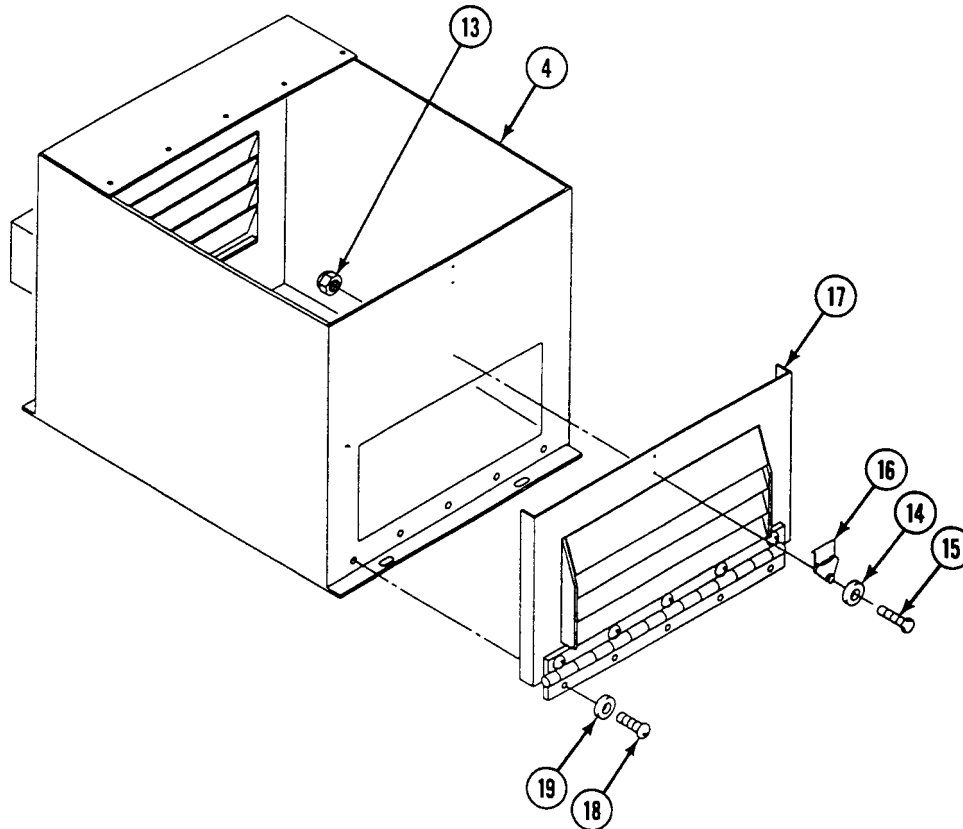


REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY (M1068A3 ONLY) —
Continued

0824 00

ASSEMBLY

1. Install cover (17) on box (4). Secure with four washers (19) and screws (18).
2. Install catch (16) on cover (17). Secure with screw (15), washer (14), and new locknut (13).

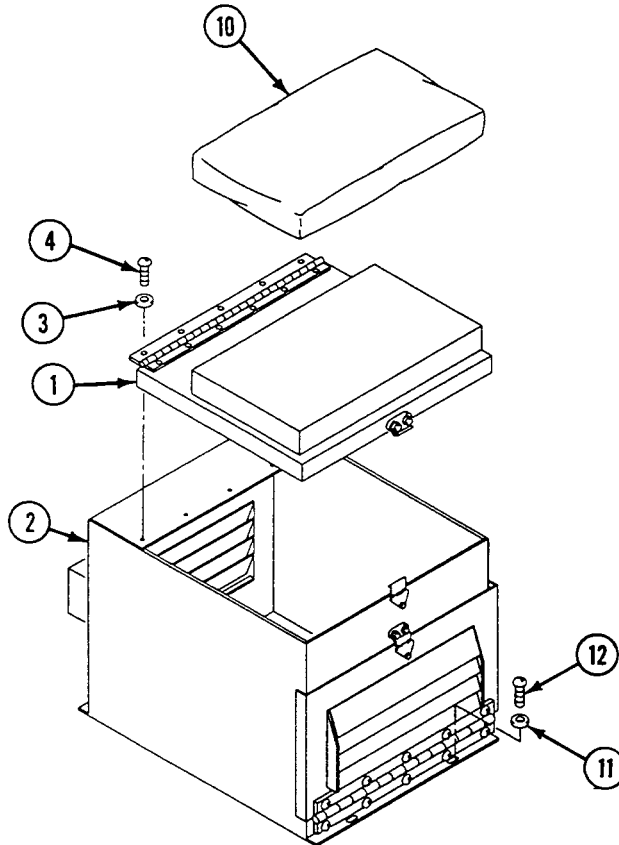


3. Install lid (1) on box (2). Secure with five washers (3) and screws (4).

NOTE

If removed, install seat cushion pad in seat cushion cover.

4. Install seat cushion (10) on lid (1).

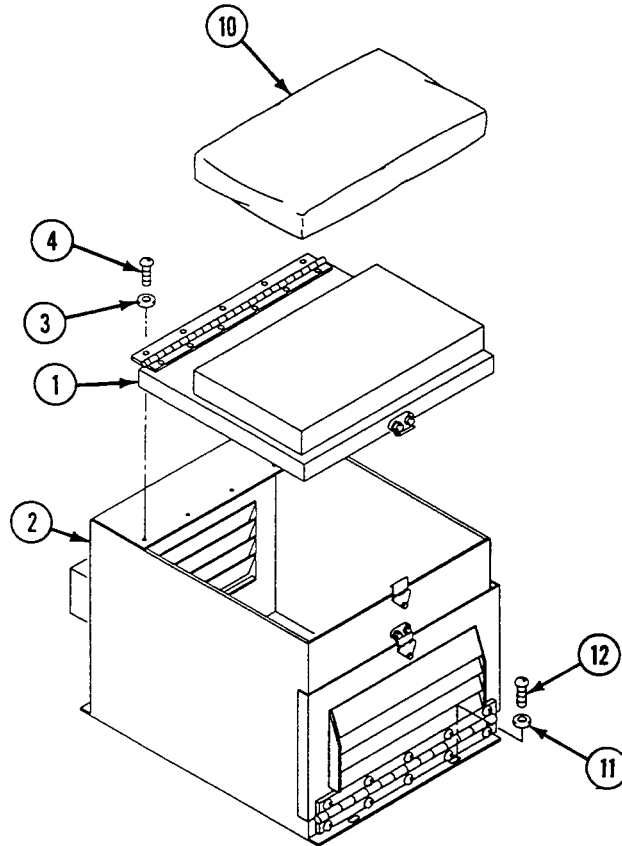


REPLACE/REPAIR POWER SUPPLY STORAGE BOX ASSEMBLY (M1068A3 ONLY) —
Continued

0824 00

INSTALLATION

1. Install storage box (2) in carrier. Secure with four washers (11) and screws (12).

**FOLLOW-THROUGH STEPS**

1. Install cables W42, W43, and W251 (WP 0852 00).
2. Replace items/contents into storage box.
3. Install UPS power supply, See TM 11-7010-256-12&P.

END OF TASK

REPLACE FLUORESCENT LIGHT ASSEMBLIES (M1068A3 ONLY)

0825 00

THIS WORK PACKAGE COVERS:

Removal (page 0825 00-1).
 Installation (page 0825 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 10-5410-229-13&P
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Personnel Required

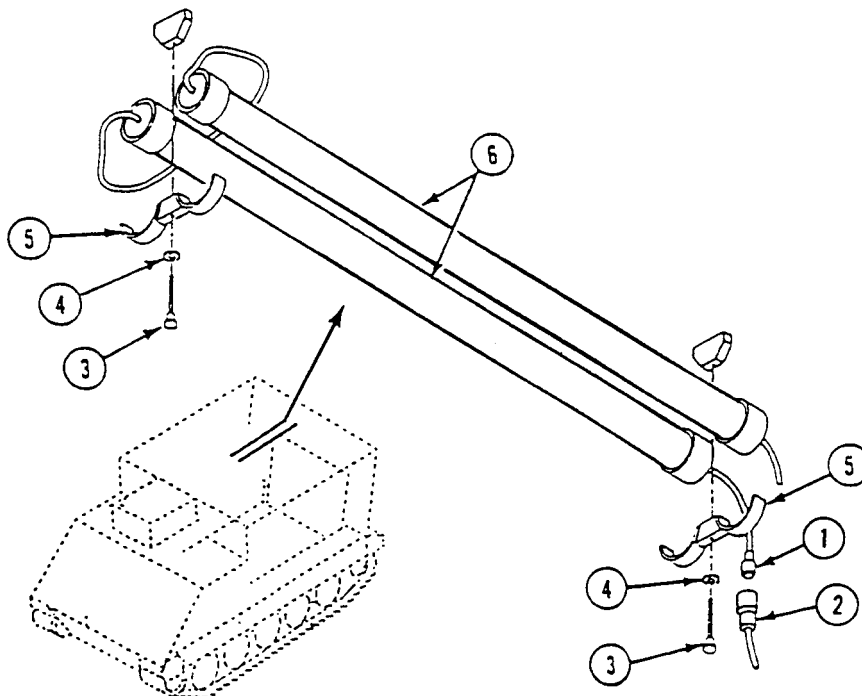
Power-Generation Equipment Repairer 52D10

REMOVAL

NOTE

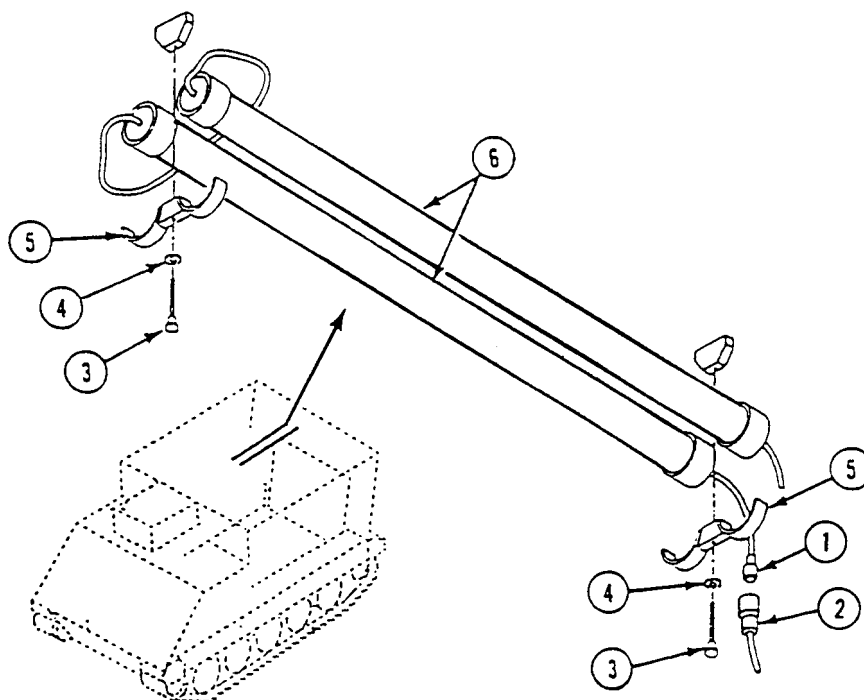
For repair of fluorescent light assemblies, see TM 10-5410-229-13&P.

1. Disconnect fluorescent light assembly electrical connector P1 (1) from cable W11P2 (2).
2. Remove two thumbscrews (3), washers (4), light holders (5), and fluorescent light assemblies (6) from light holder mounts welded to overhead plate.



INSTALLATION

1. Install two fluorescent light assemblies (6), light holders (5), washers (4), and thumbscrews (3) on light holder mounts welded to overhead plate.
2. Connect fluorescent light assembly electrical connector P1 (1) to cable W11P2 (2).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE POWER CONTROL ENCLOSURE ASSEMBLY A1 (M1068A3 ONLY)

0826 00

THIS WORK PACKAGE COVERS:

Removal (page 0826 00-1).
 Installation (page 0826 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)
 Roadside data panel A13 removed (WP 0835 00)
 Cascade remote harness W15 removed (WP 0847 00)

Materials/Parts

Lockwasher (2)

Personnel Required

Power-Generation Equipment Repairer 52D10
 Helper (H)

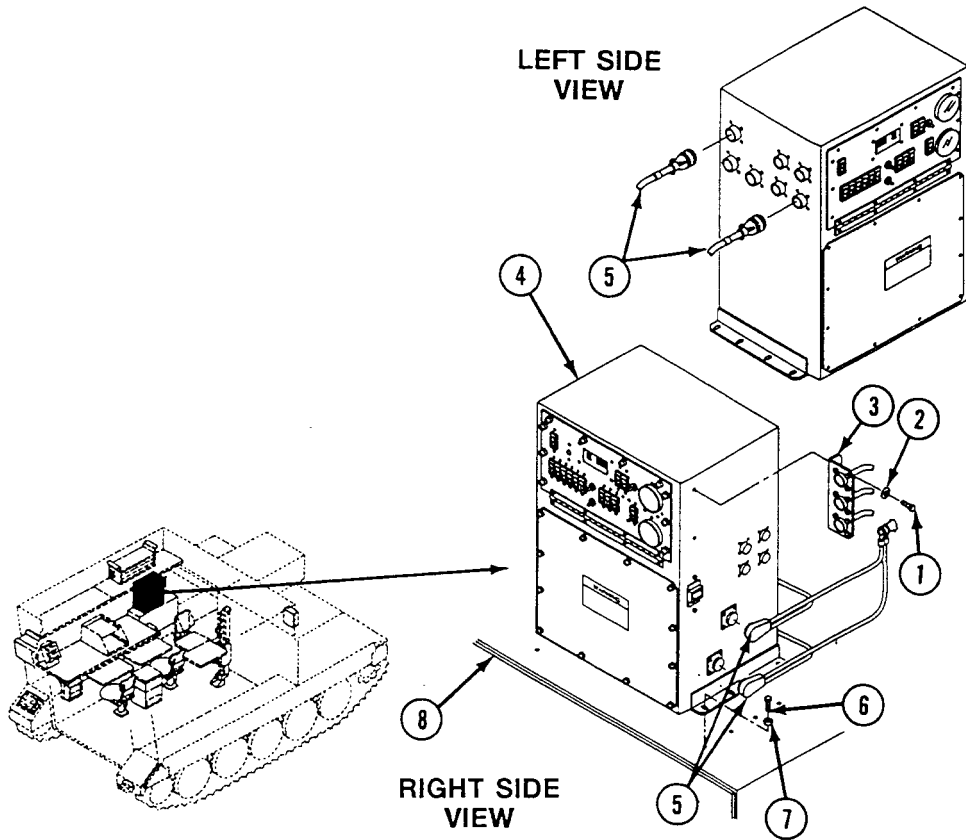
REMOVAL

1. Remove two screws (1), lockwashers (2), and bracket (3) from power control enclosure (4). Discard lockwashers.

NOTE

Tag all cables/connectors before removal for proper installation later.

2. Disconnect all cables/connectors (5) from left and right sides of power control enclosure (4).
3. Remove eight screws (6), washers (7), and power control enclosure (4) from inverter housing (8). Have helper assist.

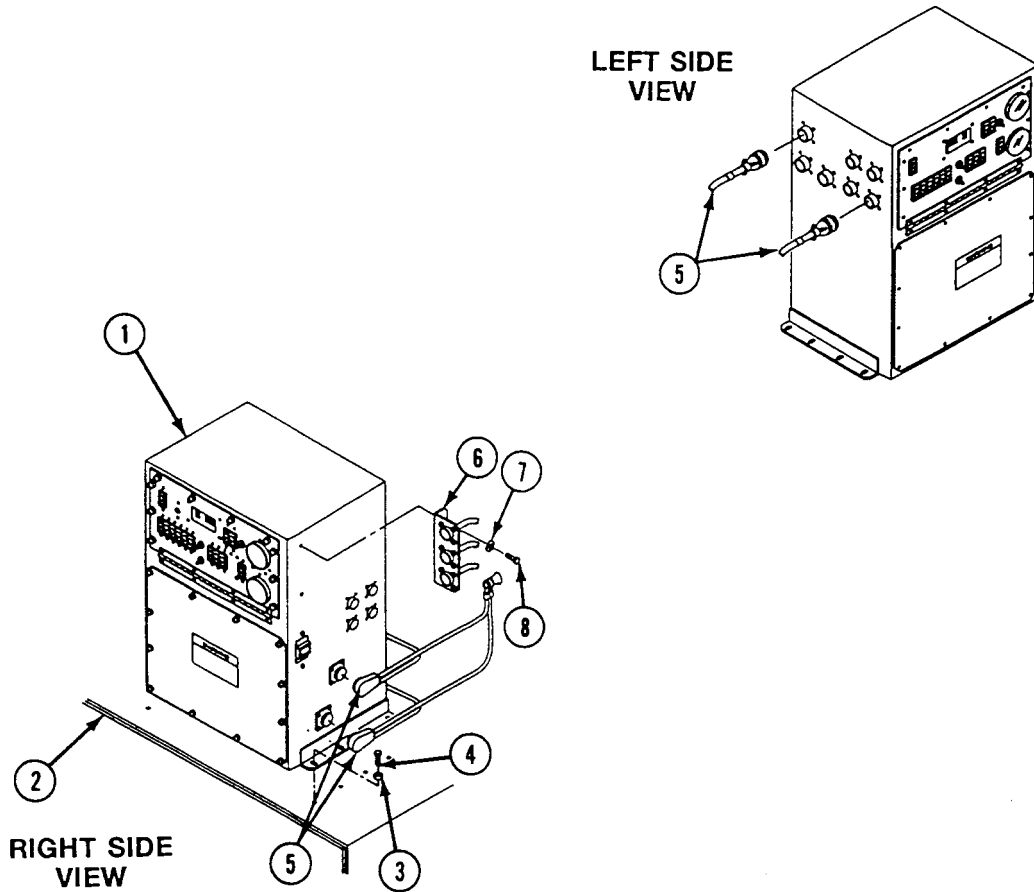


**REPLACE POWER CONTROL ENCLOSURE ASSEMBLY A1 (M1068A3 ONLY) —
Continued**

0826 00

INSTALLATION

1. Install power control enclosure (1) on inverter housing (2). Secure with eight washers (3) and screws (4). Have helper assist.
2. Connect all cables/connectors (5) to left/right sides of power control enclosure (1).
3. Install bracket (6) on power control enclosure (1). Secure with two new lockwashers (7) and screws (8).



FOLLOW-THROUGH STEPS

1. Install cascade remote harness W15 (WP 0847 00).
2. Install roadside data panel A13 (WP 0835 00).
3. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068A3 ONLY)

0827 00

THIS WORK PACKAGE COVERS:

Removal (page 0827 00-1).
 Installation (page 0827 00-4).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

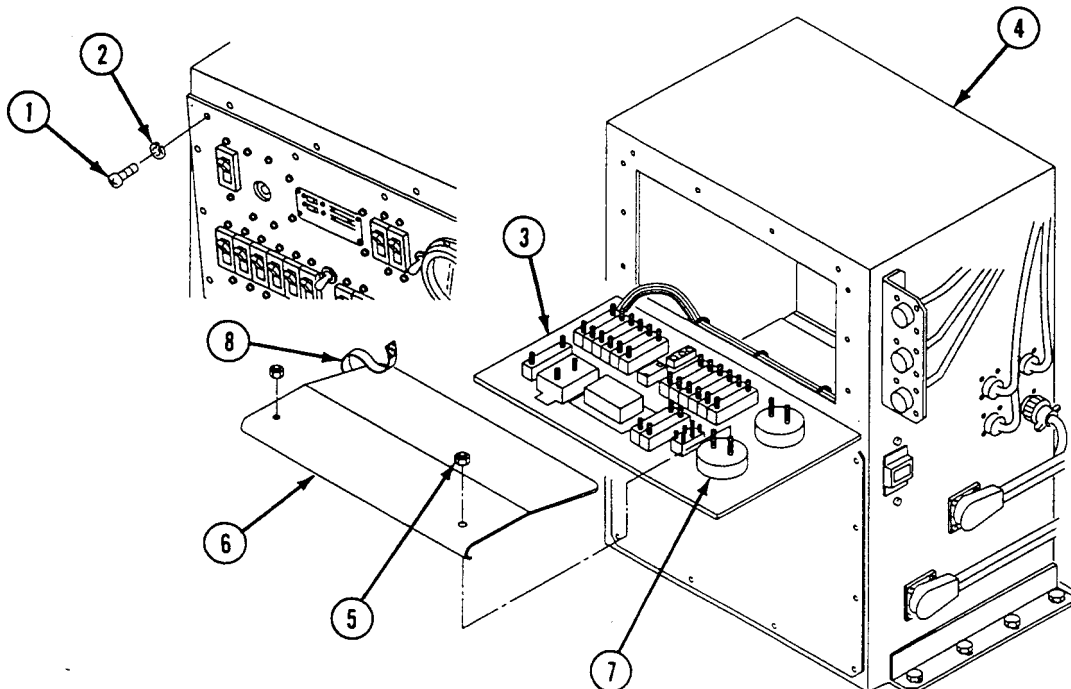
Primer (WP 0928 00, Item 45)
 Sealing Compound (WP 0928 00, Item 48)
 Locknut (6)
 Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

1. Remove ten screws (1), lockwashers (2), and lower faceplate assembly (3) from power enclosure (4). Discard lockwashers.
2. Remove nut (5) and safety cover (6) from terminal 2 on meter M1 (7). Unwrap velcro strap (8) from around local wiring.



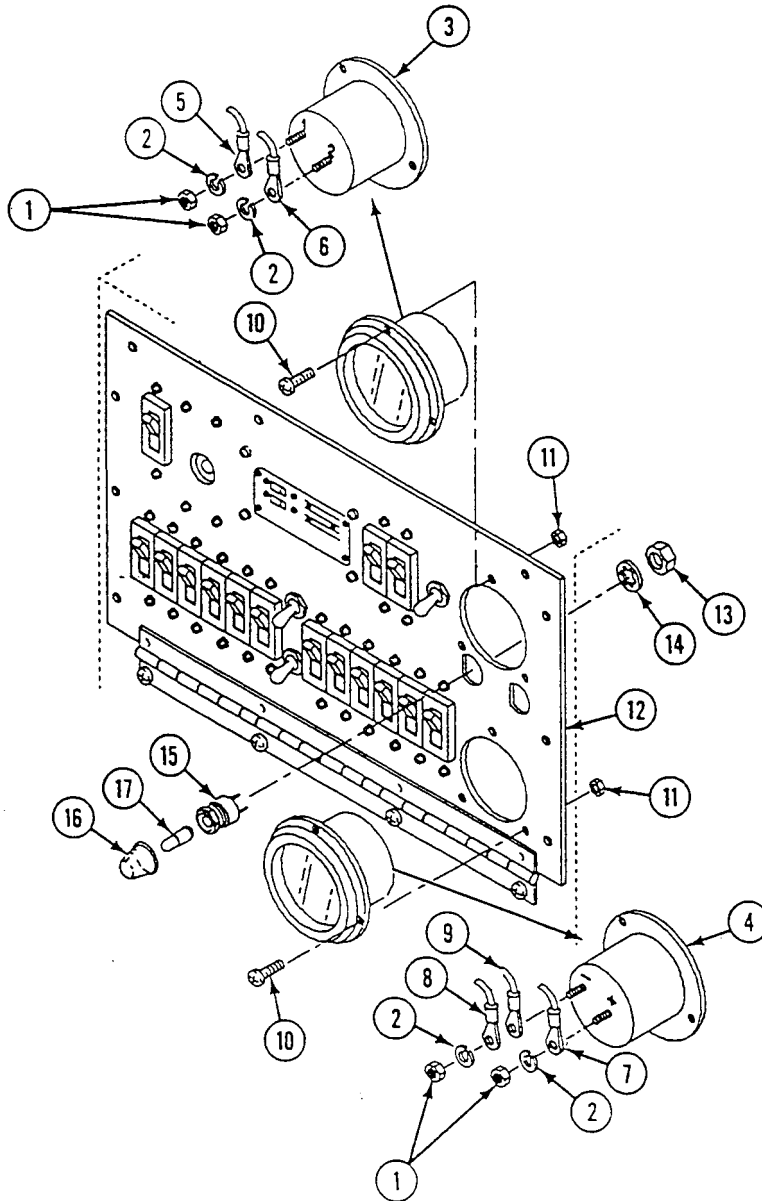
REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068A3 ONLY) — Continued

0827 00

NOTE

Tag all leads before removing them.

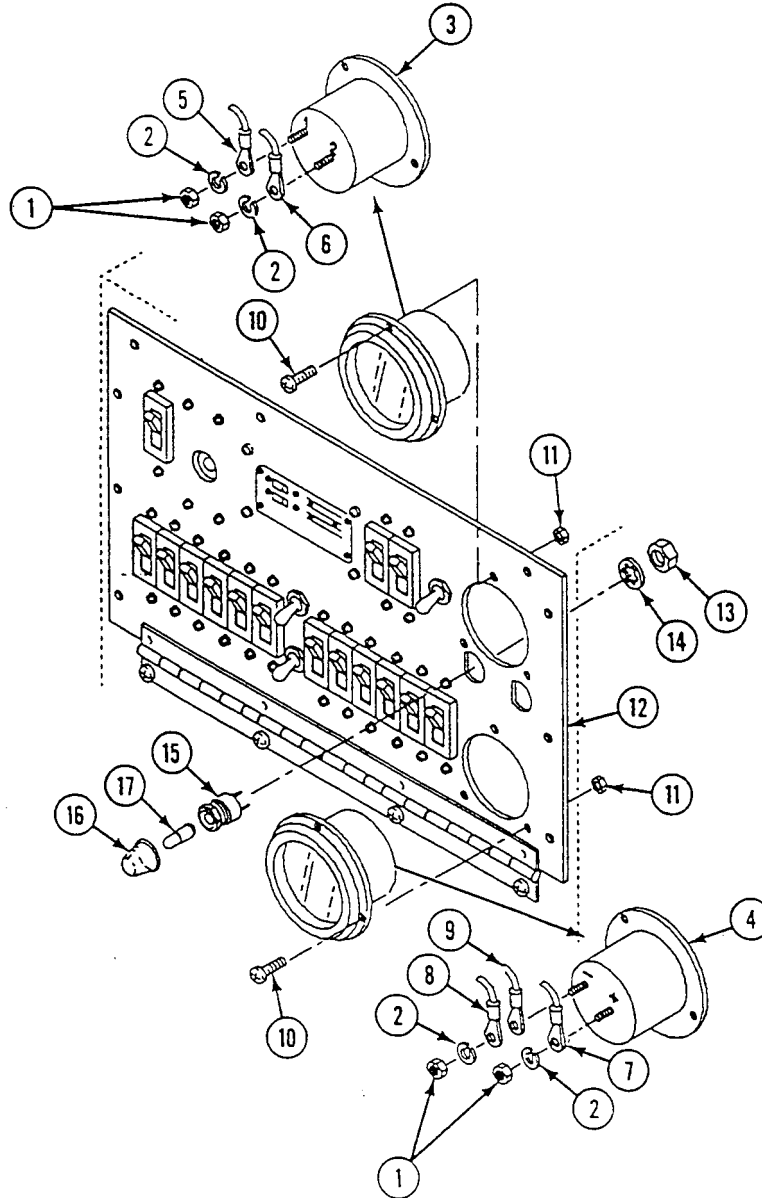
3. Remove two nuts (1) and washers (2) from meter M1 (3).
4. Remove two nuts (1) and washers (2) from meter M2 (4).
5. Remove circuits 29A lead (5) and 30A lead (6) from meter M1 (3).



REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068A3 ONLY) — Continued

0827 00

6. Remove circuits 31F lead (7), 32F lead (8), and 28C lead (9) from meter M2 (4).
7. Remove three screws (10), locknuts (11), and meter M1 (3) from faceplate (12). Discard locknuts.
8. Remove three screws (10), locknuts (11), and meter M2 (4) from faceplate (12). Discard locknuts.
9. Remove two jamnuts (13) and lockwashers (14) from two indicator lights (15). Remove lights from faceplate (12).
10. If necessary, remove lens (16) and bulb (17) from indicator light (15).

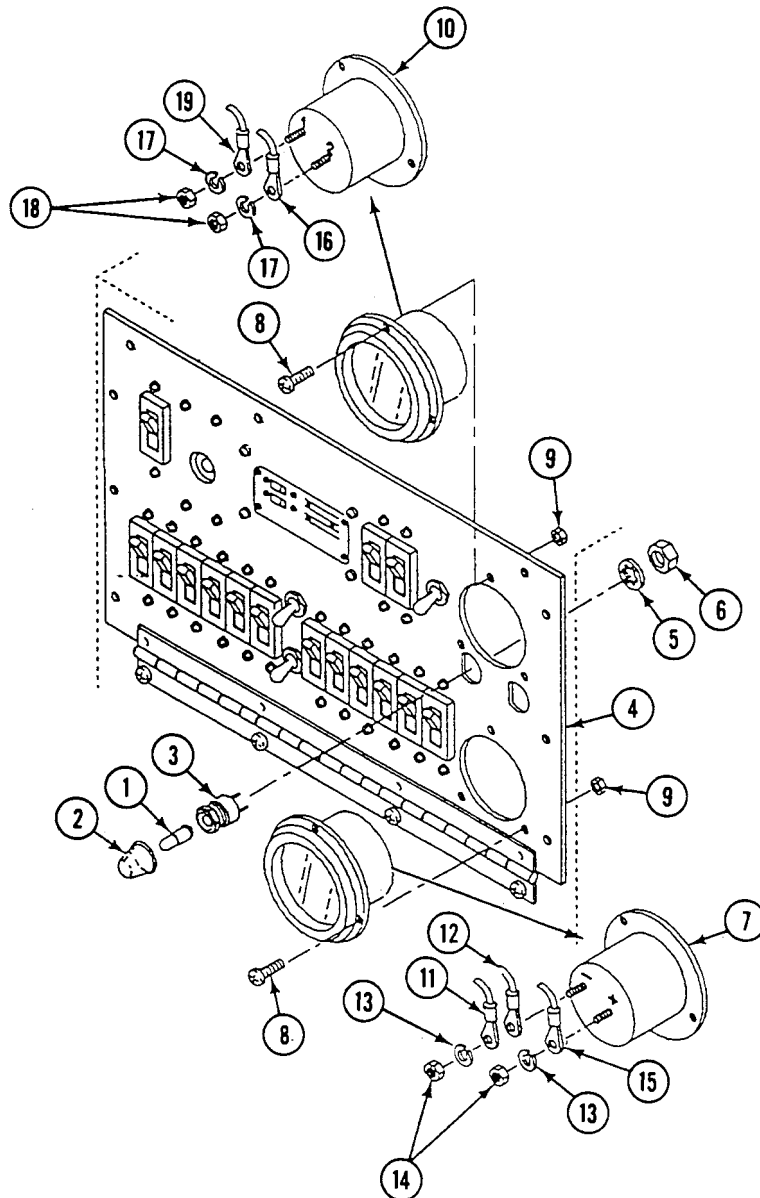


REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068A3 ONLY) — Continued

0827 00

INSTALLATION

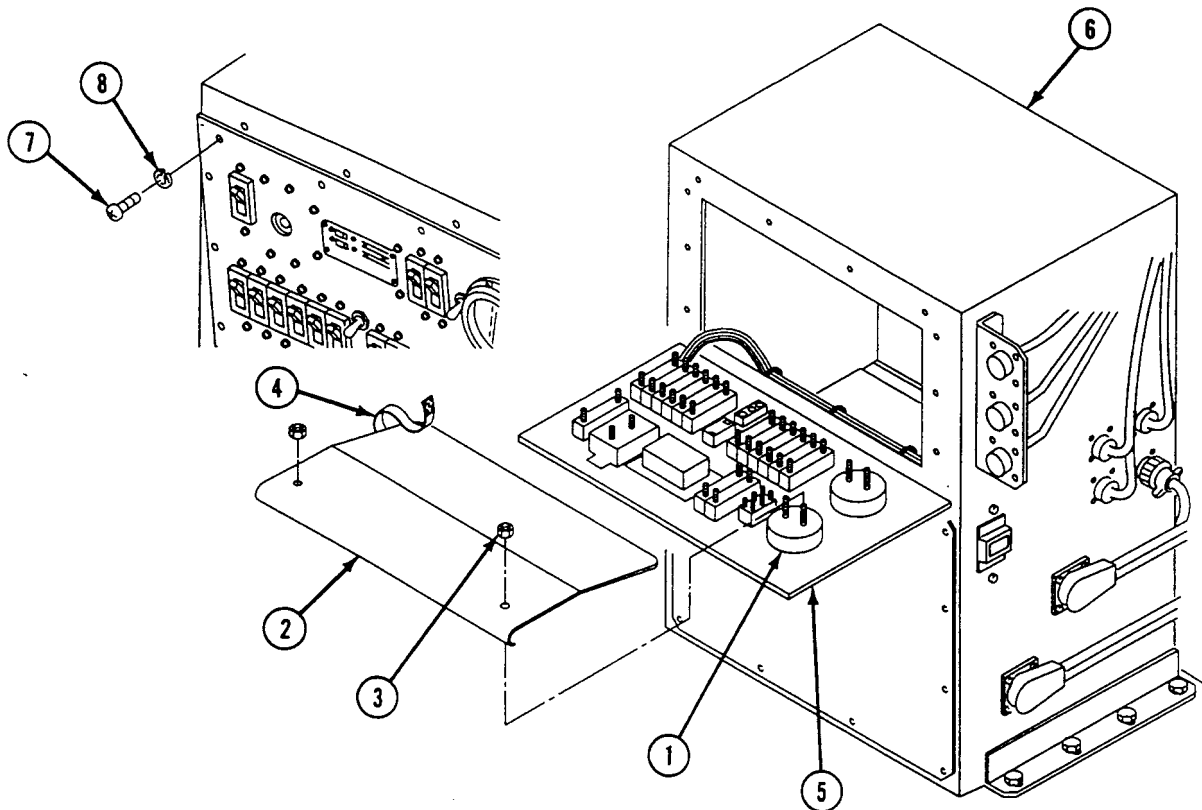
1. If bulb (1) or lens (2) were removed, install on indicator light (3).
2. Install two indicator lights (3) on faceplate (4). Secure with lockwashers (5) and jamnuts (6).
3. Install meter M2 (7) on faceplate (4). Secure with three screws (8) and new locknuts (9).
4. Install meter M1 (10) on faceplate (4). Secure with three screws (8) and new locknuts (9).
5. Install circuits 32F (11) and 28C leads (12), washer (13), and nut (14) on negative (-) terminal of meter M2 (7).
6. Install circuit 31F lead (15), washer (13), and nut (14) on positive (+) terminal of meter M2 (7).
7. Install circuit 30A lead (16), washer (17), and nut (18) on terminal 1 of meter M1 (10).
8. Install circuit 29A lead (19), washer (17), and nut (18) on terminal 2 of meter M1 (10).



REPLACE POWER CONTROL ENCLOSURE AC AND DC METERS AND LIGHT INDICATORS (M1068A3 ONLY) — Continued

0827 00

9. Apply primer and sealing compound to threads of terminal 2 of meter M1 (1). Install safety cover (2) and nut (3) on terminal 2 of meter M1. Wrap velcro strap (4) around local wiring.
10. Install faceplate (5) on power enclosure (6). Secure with ten screws (7) and new lockwashers (8).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068A3 ONLY)

0828 00

THIS WORK PACKAGE COVERS:

Disassembly (page 0828 00-1).
 Assembly (page 0828 00-7).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

References

WP 0338 00

Materials/Parts

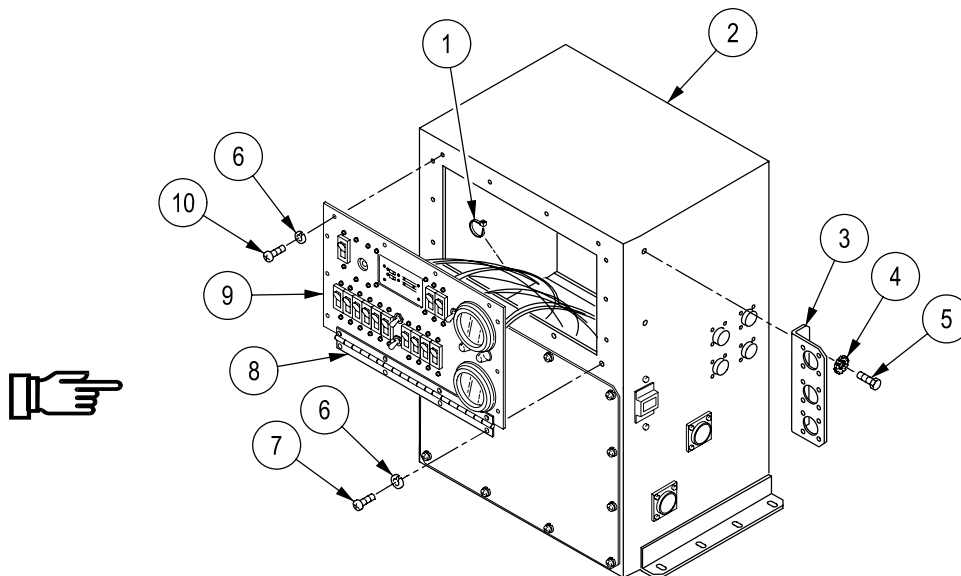
Primer (WP 0928 00, Item 45)
 Sealing Compound (WP 0928 00, Item 48)
 Locknut (4)
 Locknut (4)
 Lockwasher (4)
 Lockwasher (4)
 Lockwasher (10)
 Strap (AR)

Equipment Condition

Engine stopped (TM 9-2350-277-10)
 Carrier blocked (TM 9-2350-277-10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

DISASSEMBLY

1. Remove two screws (5), lockwashers (4), and bracket (3) from enclosure (2). Discard lockwashers.
2. Remove ten screws (10), lockwashers (6), and faceplate assembly (9) from enclosure (2). Lower faceplate (9). Discard lockwashers.
3. Remove straps (1) from leads as required. Discard straps.
4. Remove four screws (7) and washers (6) from faceplate hinge (8).



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET
(M1068A3 ONLY) — Continued**

0828 00

NOTE

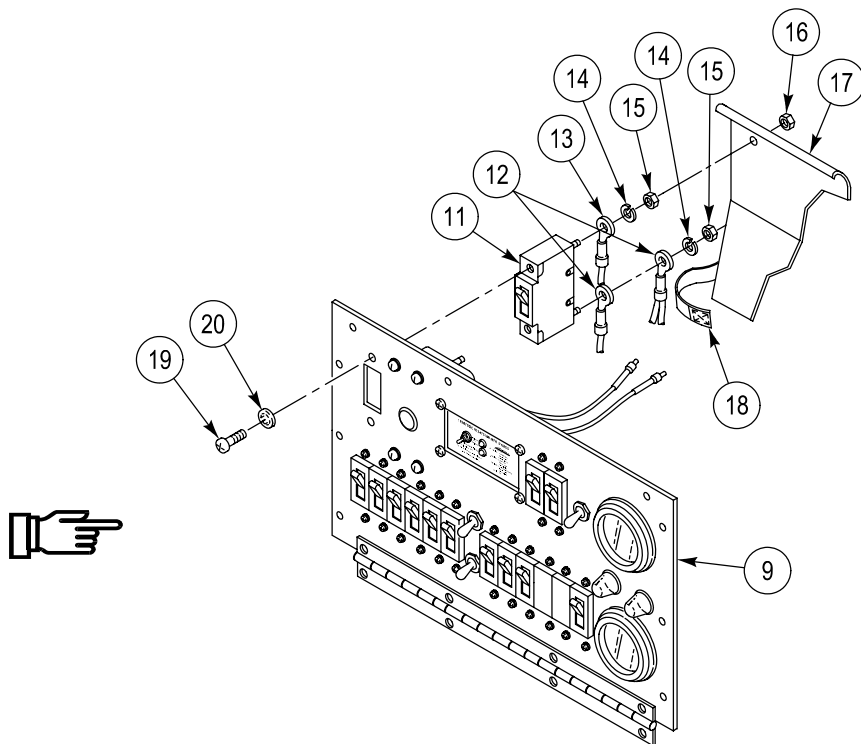
Tag all leads before removal.

There are 13 circuit breakers alike. All circuit breakers are removed in the same way. The art work shows the removal of only one circuit breaker. Use wiring diagram in the back of the manual.

NOTE

Unless otherwise noted retain all hardware for use during reinstallation.

5. Remove nut (16) and safety cover (17) from terminal 1 of circuit breaker CB1 (11). Unwrap velcro strap (18) from around local wiring.
6. Remove two nuts (15) and lockwashers (14) from circuit breaker CB1 (11).
7. Remove circuit 7A lead (13) from terminal 1 of circuit breaker CB1 (11).
8. Remove circuits 9A, 9E, and 9D leads (12) from terminal 2 of circuit breaker CB1 (11).
9. Remove two screws (19), lockwashers (20), and circuit breaker CB1 (11) from faceplate (9). Discard lockwashers.



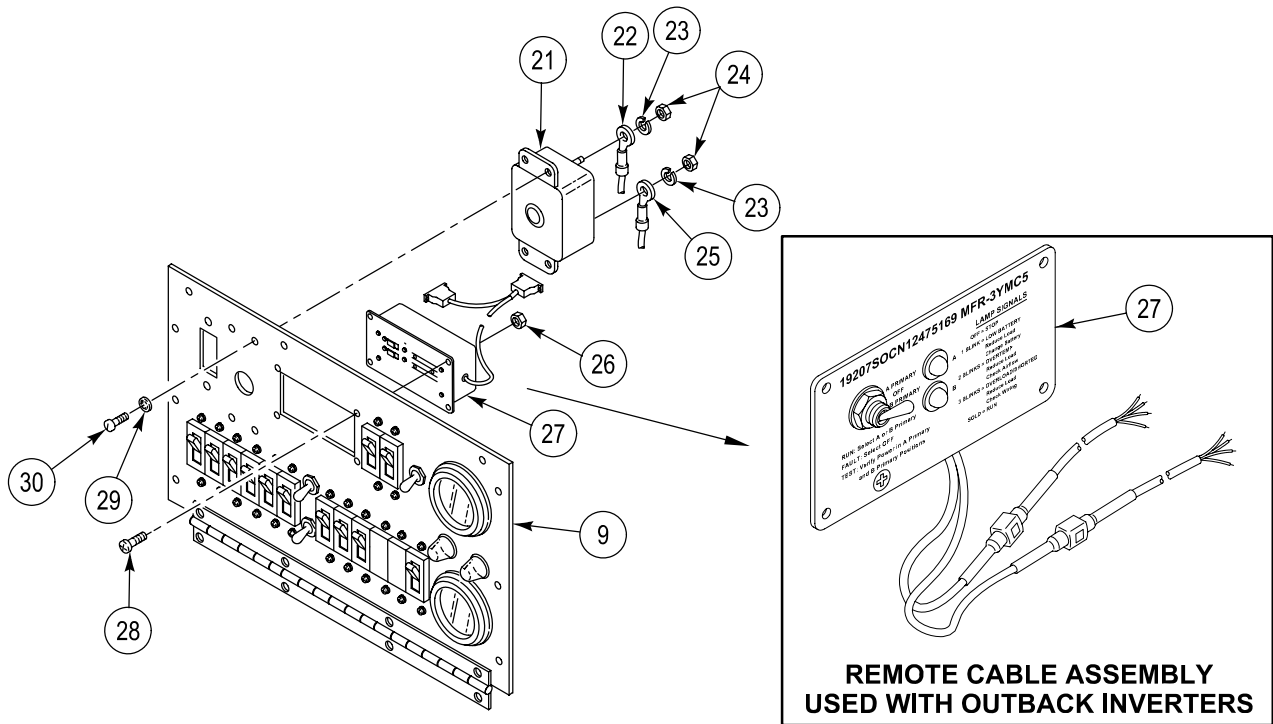
**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET
(M1068A3 ONLY) — Continued**

0828 00

NOTE

Unless otherwise noted retain all hardware for use during reinstallation.

10. Remove two nuts (24) and lockwashers (23) from circuit breaker CB2 (21).
11. Remove circuit 31B lead (22) from terminal 1 of circuit breaker CB2 (21).
12. Remove circuit 36C lead (25) from terminal 2 of circuit breaker CB2 (21).
13. Remove four screws (30), lockwashers (29), and circuit breaker CB2 (21) from faceplate (9). Discard lockwashers.
14. Remove four screws (28), locknuts (26), and cascade remote harness RP1 or remote cable assembly (27) from faceplate (9) and two inverters. Discard locknuts.



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET
(M1068A3 ONLY) — Continued**

0828 00

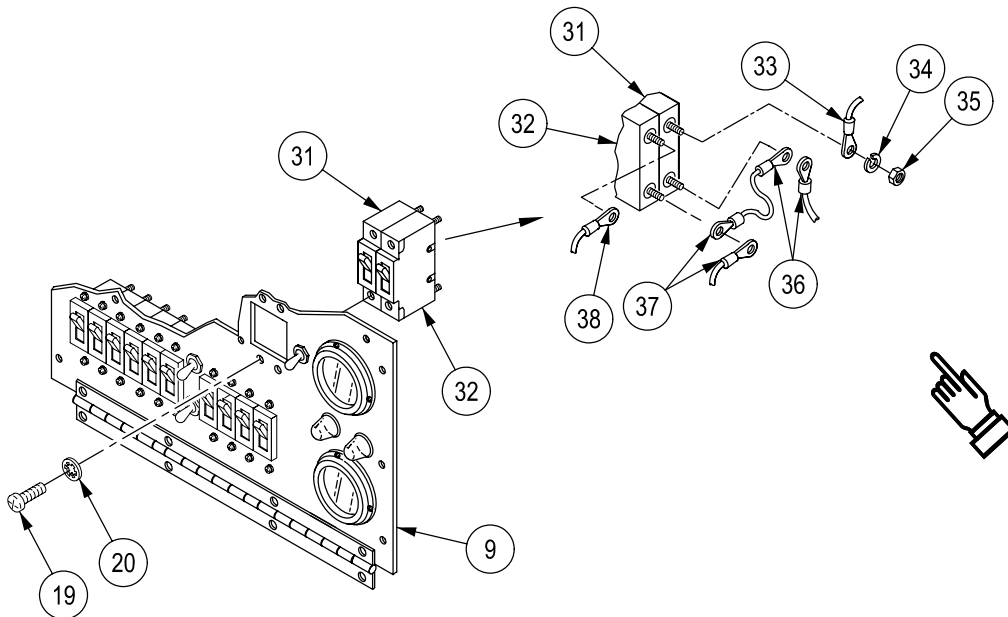
NOTE

All leads for CB3 and CB4 are secured with a washer and a nut. Art work shows the removal of only one washer and one nut.

NOTE

Unless otherwise noted, retain all hardware for use during reinstallation.

15. Remove two nuts (35) and lockwashers (34) from circuit breaker CB3 (31).
16. Remove circuit 11A lead (33) from terminal 1 of circuit breaker CB3 (31).
17. Remove circuits 13A and 13B leads (36) from terminal 2 of circuit breaker CB3 (31).
18. Remove two nuts (35) and lockwashers (34) from circuit breaker CB4 (32).
19. Remove circuit 12A lead (38) from terminal 1 of circuit breaker CB4 (32).
20. Remove circuits 13B and 13C leads (37) from CB4 (32).
21. Remove four screws (19), lockwashers (20), and circuit breakers CB3 (31) and CB4 (32) from faceplate (9). Discard lockwashers.



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET
(M1068A3 ONLY) — Continued**

0828 00

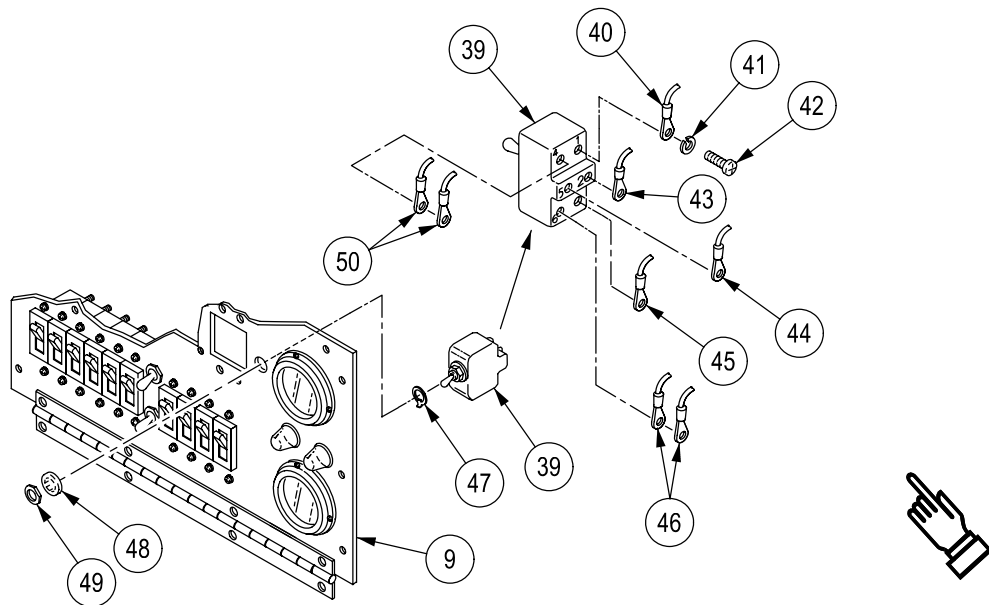
NOTE

All leads are secured to S2 with a screw and a washer. The art work shows the removal of only one washer and one screw.

NOTE

Unless otherwise noted, retain all hardware for use during reinstallation.

22. Remove screw (42), lockwasher (41), and circuit 9E lead (40) from terminal 1 of toggle switch S2 (39).
23. Remove screw (42), lockwasher (41), and circuit 30A lead (43) from terminal 2 of toggle switch S2 (39).
24. Remove screw (42), lockwasher (41), and circuit 13C lead (45) from terminal 3 of toggle switch S2 (39).
25. Remove screw (42), lockwasher (41), and circuits 8D and 8F leads (50) from terminal 4 of toggle switch S2 (39).
26. Remove screw (42), lockwasher (41), and circuit 29A lead (44) from terminal 5 of toggle switch S2 (39).
27. Remove screw (42), lockwasher (41), and circuit 28C and 28F leads (46) from terminal 6 of toggle switch S2 (39).
28. Remove nut (49), lockwasher (48), locking ring (47), and toggle switch S2 (39) from faceplate (9).



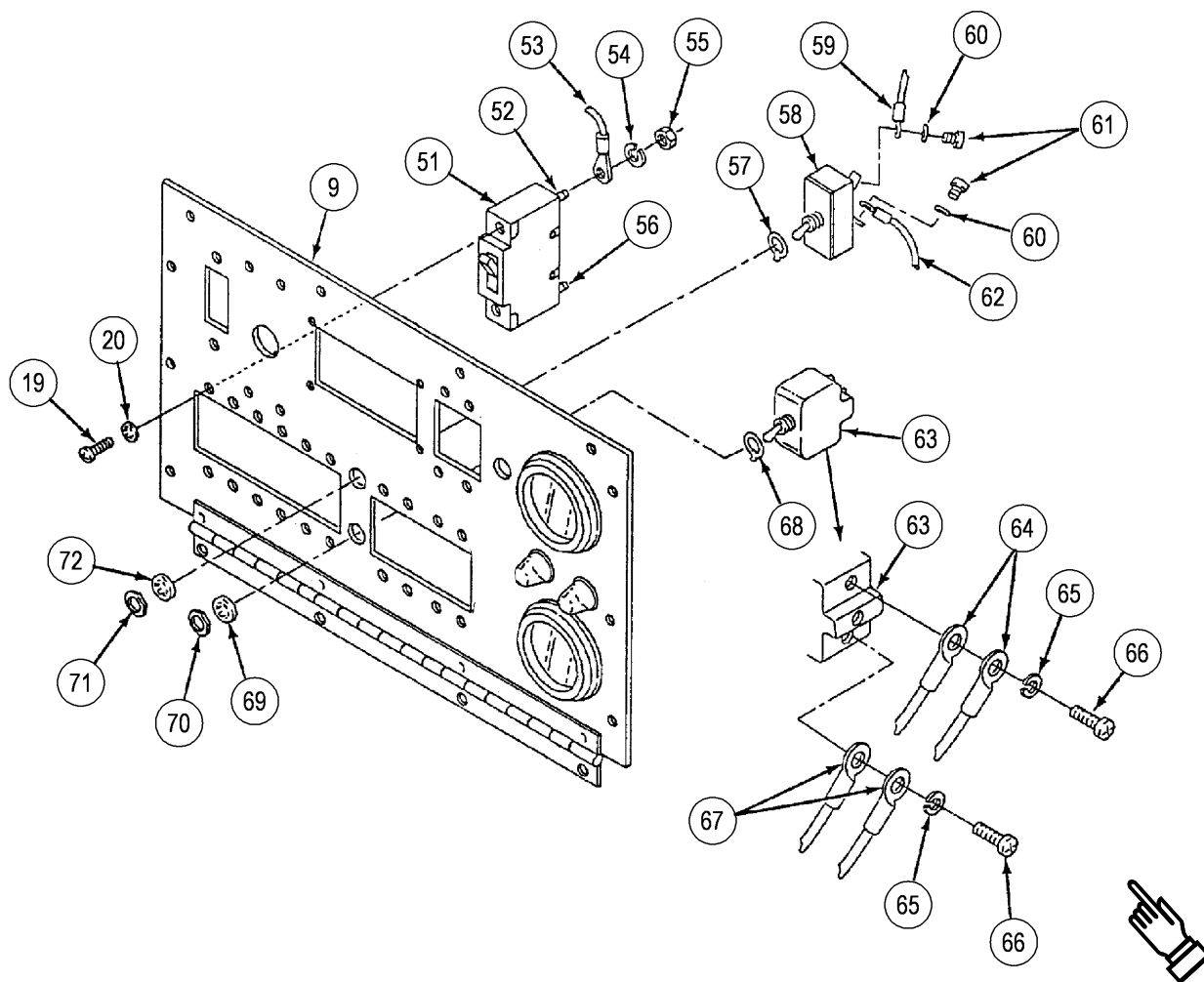
**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET
(M1068A3 ONLY) — Continued**

0828 00

NOTE

Unless otherwise noted, retain all hardware for use during reinstallation.

29. Remove two nuts (55) and lockwashers (54) and circuit lead(s) (53) from terminal 1 (52) and terminal 2 (56) of circuit breaker (51).
30. Remove circuit breaker (51) by removing two screws (19) and lockwashers (20) from faceplate (9). Discard lockwashers.
31. Remove screw (61), lockwasher (60), and circuit 19A lead (59) from terminal 2 of circuit breaker CB17 (58).
32. Remove screw (61), lockwasher (60), and circuit 17C lead (62) from terminal 1 of circuit breaker CB17 (58).
33. Remove nut (71), lockwasher (72), locking ring (57), and circuit breaker CB17 (58) from faceplate (9).
34. Remove screw (66), lockwasher (65), and circuits 19A and 19B leads (64) from terminal 2 of toggle switch S1 (63).
35. Remove screw (66), lockwasher (65), and circuits 20A and 20B leads (67) from terminal 3 of toggle switch S1 (63).
36. Remove nut (70), lockwasher (69), locking ring (68), and toggle switch S1 (63) from faceplate (9).



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET
(M1068A3 ONLY) — Continued**

0828 00

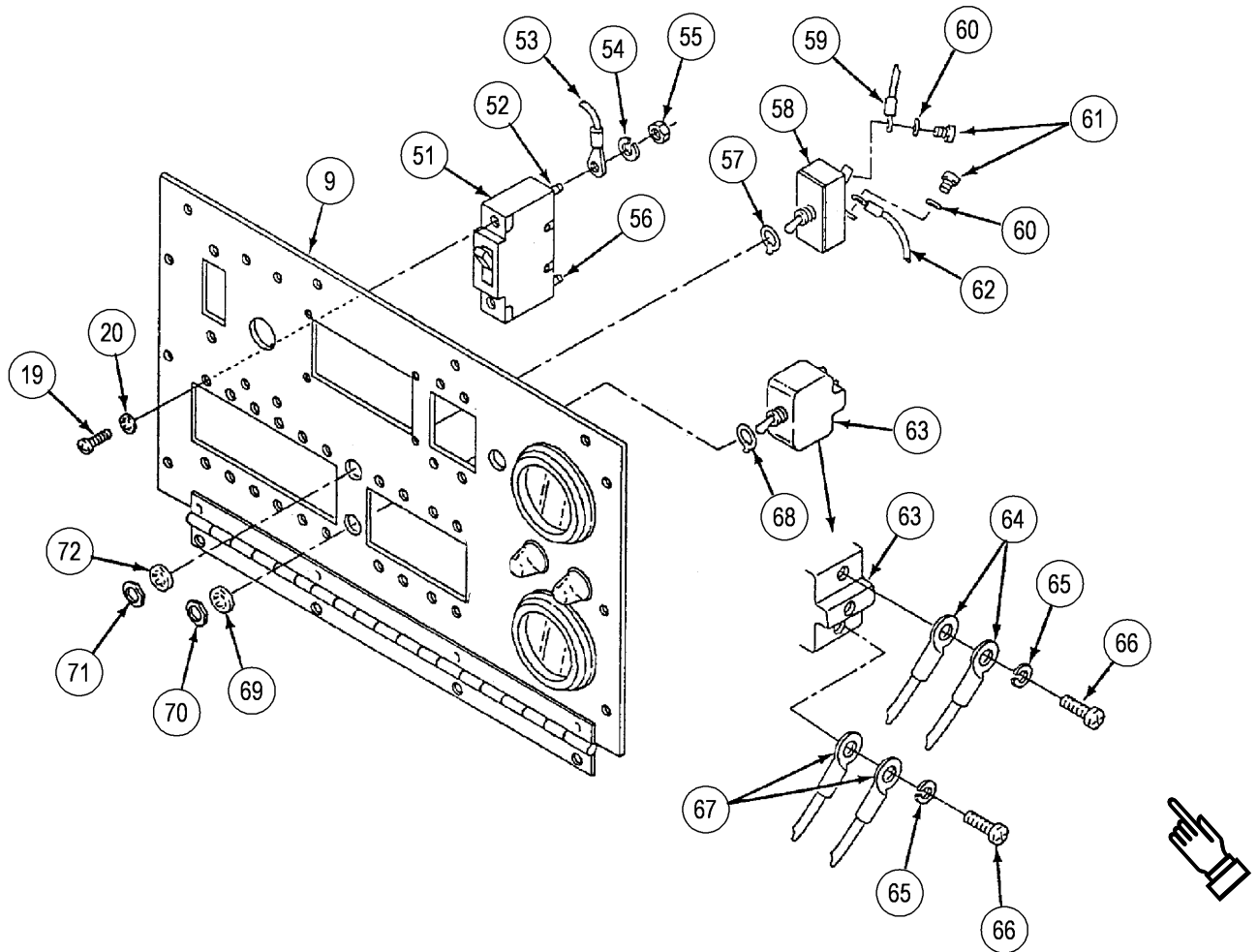
ASSEMBLY

1. Install toggle switch S1 (63), locking ring (68), lockwasher (69), and nut (70) on faceplate (9).
2. Install circuits 20A and 20B leads (67), screw (66), and lockwasher (65) on terminal 3 of toggle switch S1 (63).
3. Install circuits 19A and 19B leads (64), screw (66), and lockwasher (65) on terminal 2 of toggle switch S1 (63).

NOTE

There are 12 circuit breakers alike. All circuit breakers are installed in the same way. Art work shows the installation of one circuit breaker. Use wiring diagram in the back of the manual.

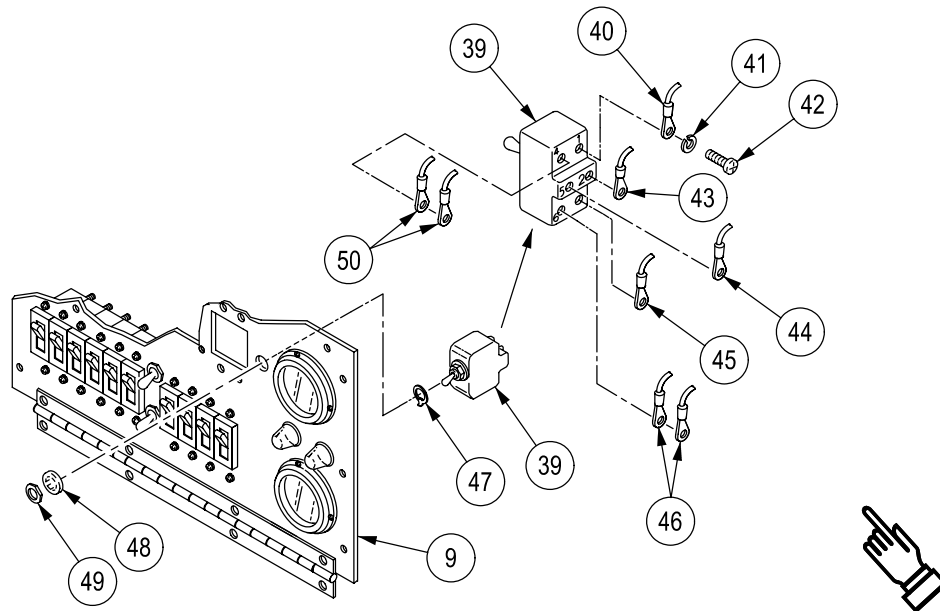
4. Install circuit breaker CB17 (58), locking ring (57), lockwasher (72), and nut (71) on faceplate (9).
5. Install circuit 19A lead (59), screw (61), and lockwasher (60) on terminal 2 of circuit breaker CB17 (58).
6. Install circuit 17C lead (62), screw (61), and lockwasher (60) on terminal 1 of circuit breaker CB17 (58).
7. Install circuit breaker (51) on faceplate (9). Secure with two new lockwashers (20) and screws (19).
8. Install circuit lead(s) (53) to terminal 1 (52) and terminal 2 (56) with two lockwashers (54) and nuts (55).



NOTE

All S2 leads are secured with a washer and a screw. The art work shows the installation of only one washer and one screw.

9. Install toggle switch S2 (39), locking ring (47), lockwasher (48), and nut (49) on faceplate (9).
10. Install circuits 28C and 28F leads (46), lockwasher (41), and screw (42) on terminal 6 of toggle switch S2 (39).
11. Install circuit 29A lead (44), lockwasher (41), and screw (42) on terminal 5 of toggle switch S2 (39).
12. Install circuits 8D and 8F leads (50), lockwasher (41), and screw (42) on terminal 4 of toggle switch S2 (39).
13. Install circuit 13C lead (45), lockwasher (41), and screw (42) on terminal 3 of toggle switch S2 (39).
14. Install circuit 30A lead (43), lockwasher (41), and screw (42) on terminal 2 of toggle switch S2 (39).
15. Install circuit 9E lead (40), lockwasher (41), and screw (42) on terminal 1 of toggle switch S2 (39).



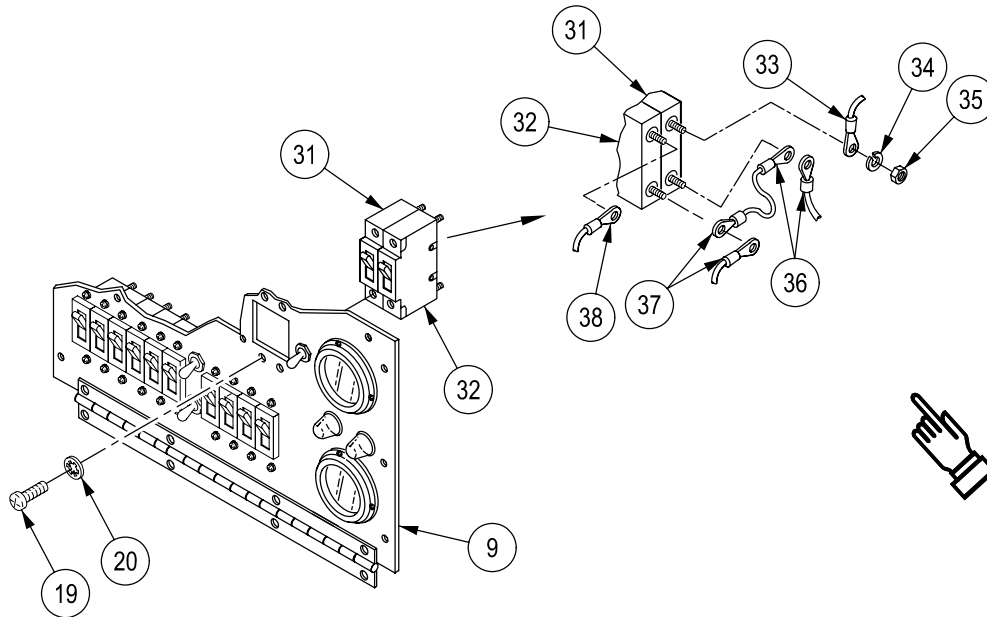
**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET
(M1068A3 ONLY) — Continued**

0828 00

NOTE

All circuit leads for CB3 and CB4 are secured with a washer and a nut. The art work shows the installation of only one washer and one nut.

16. Install circuit breakers CB3 (31) and CB4 (32) on faceplate (9) and secure with four screws (19) and new lockwashers (20).
17. Install circuits 13B and 13C leads (37), lockwasher (34), and nut (35) on terminal 2 of circuit breaker CB4 (32).
18. Install circuit 12A lead (38), lockwasher (34), and nut (35) on terminal 1 of circuit breaker CB4 (32).
19. Install circuits 13B and 13A leads (36), lockwasher (34), and nut (35) on terminal 2 of circuit breaker CB3 (31).
20. Install circuit 11A lead (33), lockwasher (34), and nut (35) on terminal 1 of circuit breaker CB3 (31).



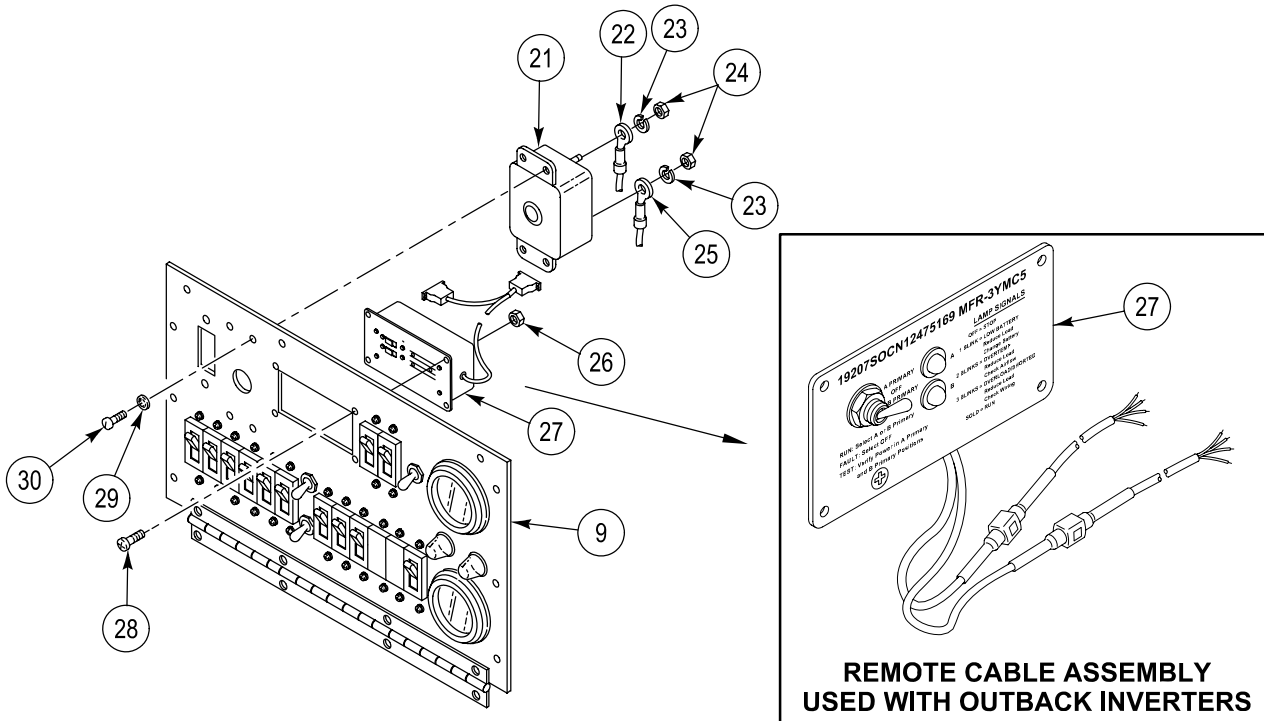
**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET
(M1068A3 ONLY) — Continued**

0828 00

NOTE

If replacing the cascade remote harness RPI (W15), verify the type inverter you have (15-pin or 25-pin) and check the Repair Parts and Special Tools List (RPSTL) (TM 9-2350-277-24P) to identify which harness to order.

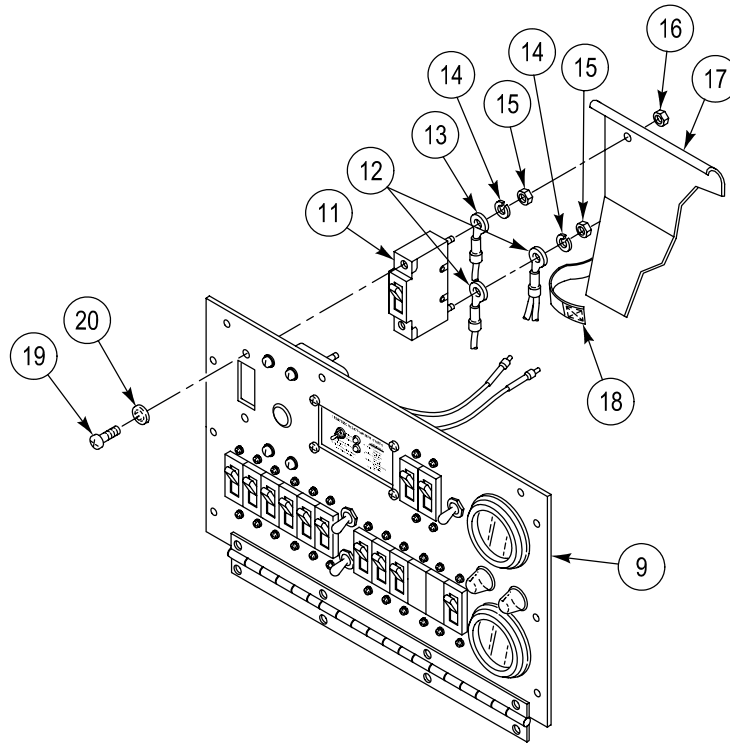
21. Install cascade remote harness RP1 or remote cable assembly (27) on faceplate (9) and secure with four screws (28) and new locknuts (26).
22. Install circuit breaker CB2 (21), four screws (30), and new lockwashers (29) on faceplate (9).
23. Install circuit 36C lead (25), nut (24), lockwasher (23) on terminal 2 of circuit breaker CB2 (21).
24. Install circuit 31B lead (22), lockwasher (23), and nut (24) on terminal 1 of circuit breaker CB2 (21).



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET
(M1068A3 ONLY) — Continued**

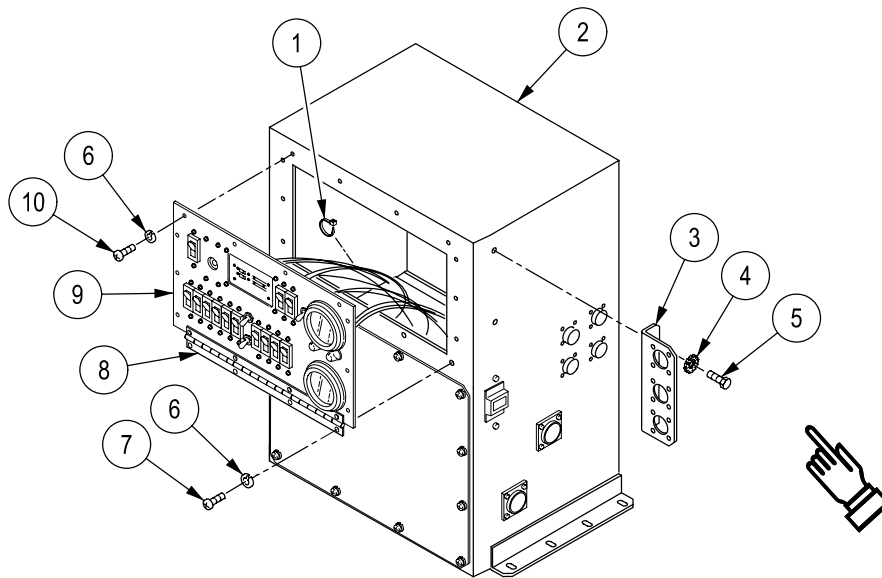
0828 00

25. Install circuit breaker CB1 (11), two screws (19), and new lockwashers (20) on faceplate (9).
26. Install circuits 9A, 9E, and 9D leads (12), lockwasher (14), and nut (15) on terminal 2 of circuit breaker CB1 (11).
27. Install circuit 7A lead (13), lockwasher (14), and nut (15) on terminal 1 of circuit breaker CB1 (11).
28. Apply primer and sealing compound to threads of terminal 1 of circuit breaker CB1 (11).
29. Install safety cover (17) and nut (16) on terminal 1 of circuit breaker CB1 (11). Wrap velcro strap (18) around local wiring.



**REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET
(M1068A3 ONLY) — Continued****0828 00**

30. Install new straps (1) on leads as required.
31. Lift faceplate assembly (9) into place. Secure faceplate hinge (8) to enclosure (2) with four screws (7) and washers (6).
32. Close faceplate assembly (9). Secure to enclosure (2) with ten screws (10) and new lockwashers (6).
33. Install bracket (3) on enclosure (2). Secure with two screws (5) and new lockwashers (4).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE POWER CONTROL ENCLOSURE CIRCUIT 44A LEAD (M1068A3 ONLY) 0829 00

THIS WORK PACKAGE COVERS:

Removal (page 0829 00-1).
 Installation (page 0829 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Locknut (4)
 Lockwasher (10)
 Strap (AR)

Personnel Required

Power-Generation Equipment Repairer 52D10

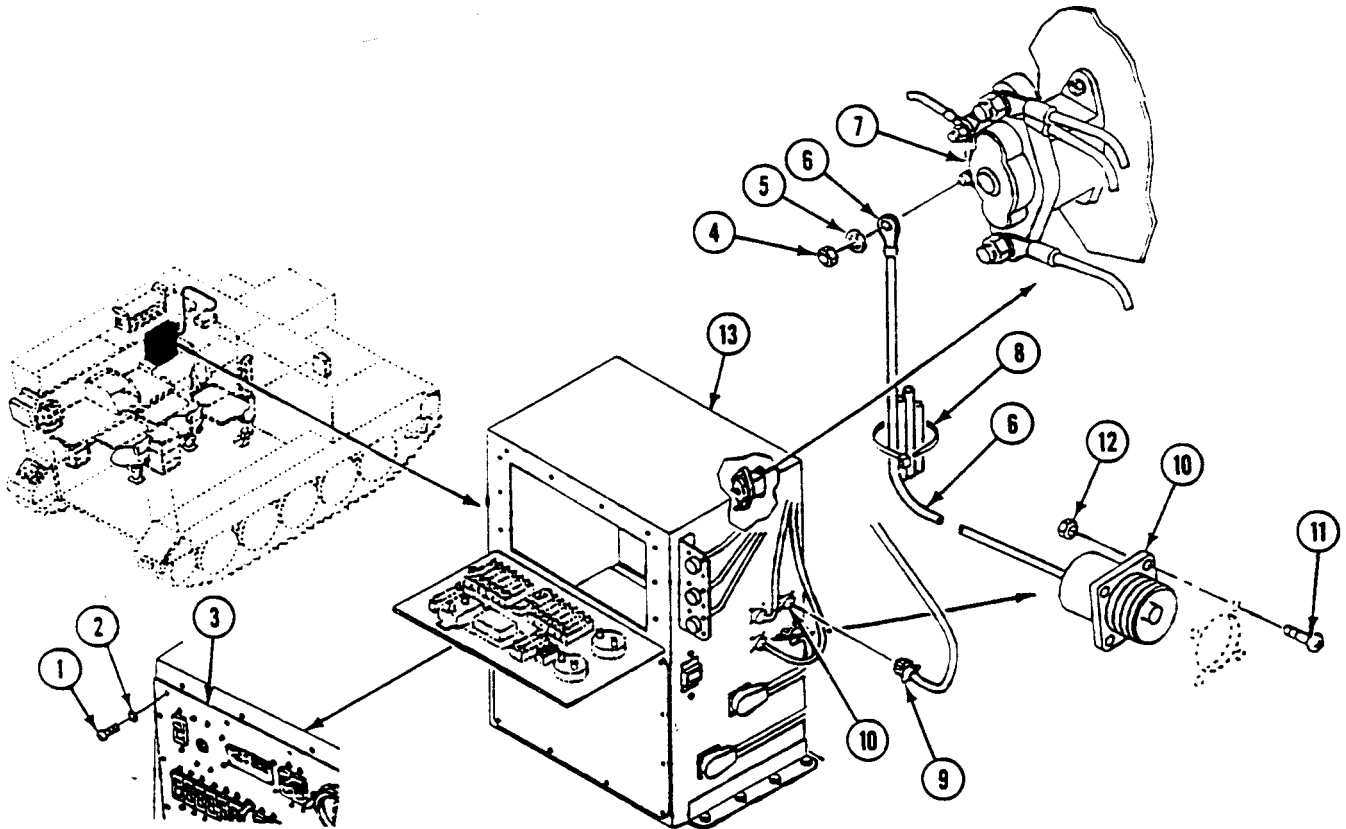
REMOVAL

1. Remove 10 screws (1) and lockwashers (2), and lower faceplate (3). Discard lockwashers.

REPLACE POWER CONTROL ENCLOSURE CIRCUIT 44A LEAD (M1068A3 ONLY) —
Continued

0829 00

2. Remove nut (4), lockwasher (5), and lead 44A (6) from terminal X1 of relay K6 (7). Do not discard lockwasher.
3. Remove straps (8) holding lead 44A (6) to other leads. Discard straps.
4. Disconnect cable plug W38P7 (9) from power control enclosure jack J28 (10).
5. Remove four screws (11), locknuts (12), and connector J28 (10) with lead 44A (6) from power control enclosure (13). Discard locknuts.

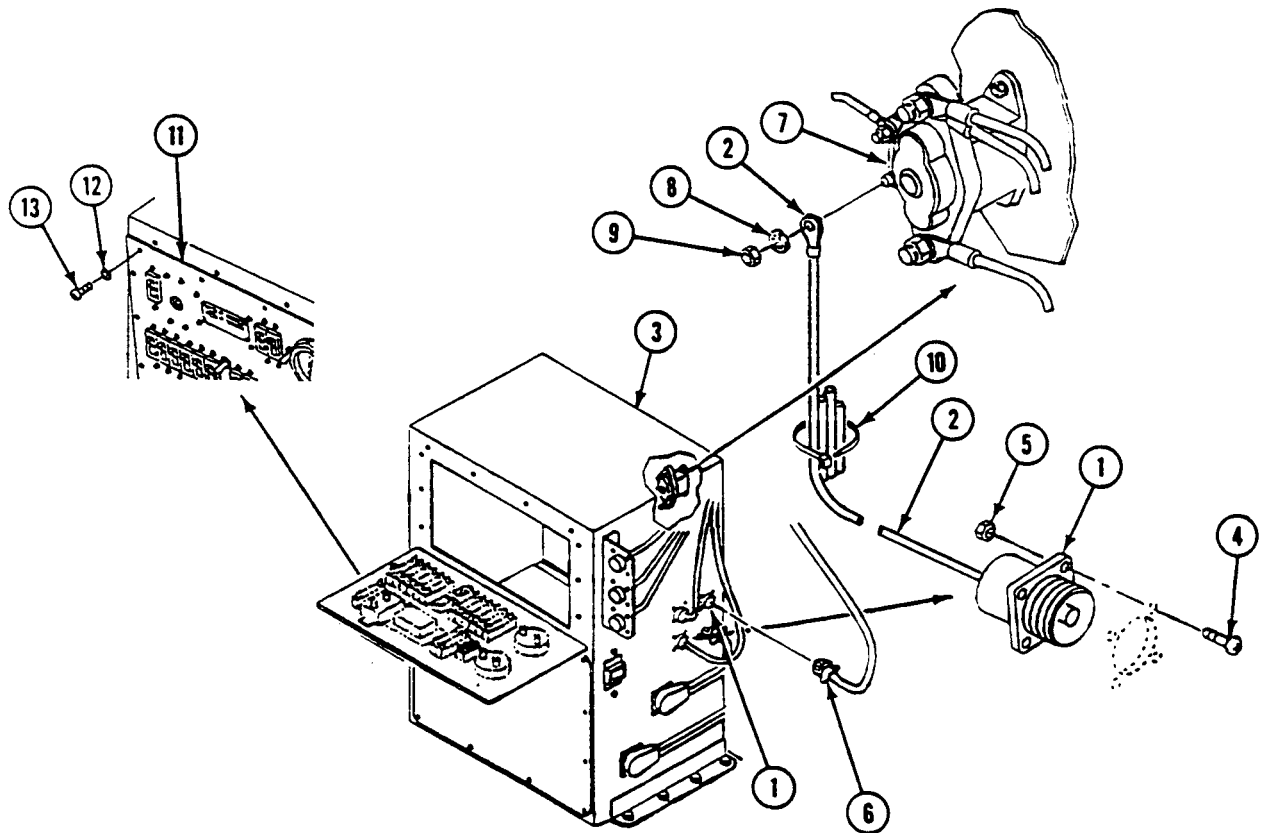


REPLACE POWER CONTROL ENCLOSURE CIRCUIT 44A LEAD (M1068A3 ONLY) —
Continued

0829 00

INSTALLATION

1. Install connector J28 (1) with lead 44A (2) in power control enclosure (3). Secure connector to right panel with four screws (4) and new locknuts (5).
2. Connect cable plug W38P7 (6) to power Control enclosure jack J28 (1).
3. Install lead 44A (2) on terminal X1 of relay K6 (7) and secure with retained lockwasher (8) and nut (9).
4. Secure lead 44A (2) to other leads with new straps (10) as required.
5. Raise faceplate (11) and secure to power control enclosure (3) with 10 new lockwashers (12) and screws (13).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

**REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2
(M1068A3 ONLY)**

0830 00

THIS WORK PACKAGE COVERS:

Removal (page 0830 00-1).
Installation (page 0830 00-4).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Materials/Parts

Locknut (2)

Locknut (4)

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10

References

See your -10

TM 11-7010-256-12&P

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

All external power disconnected

(TM 11-7010-256-12&P)

Battery ground lead disconnected (WP 0338 00)

REMOVAL

1. Remove ten screws (1), lockwashers (2), and cover (3) from inverter housing (4). Discard lockwashers.

REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068A3 ONLY)

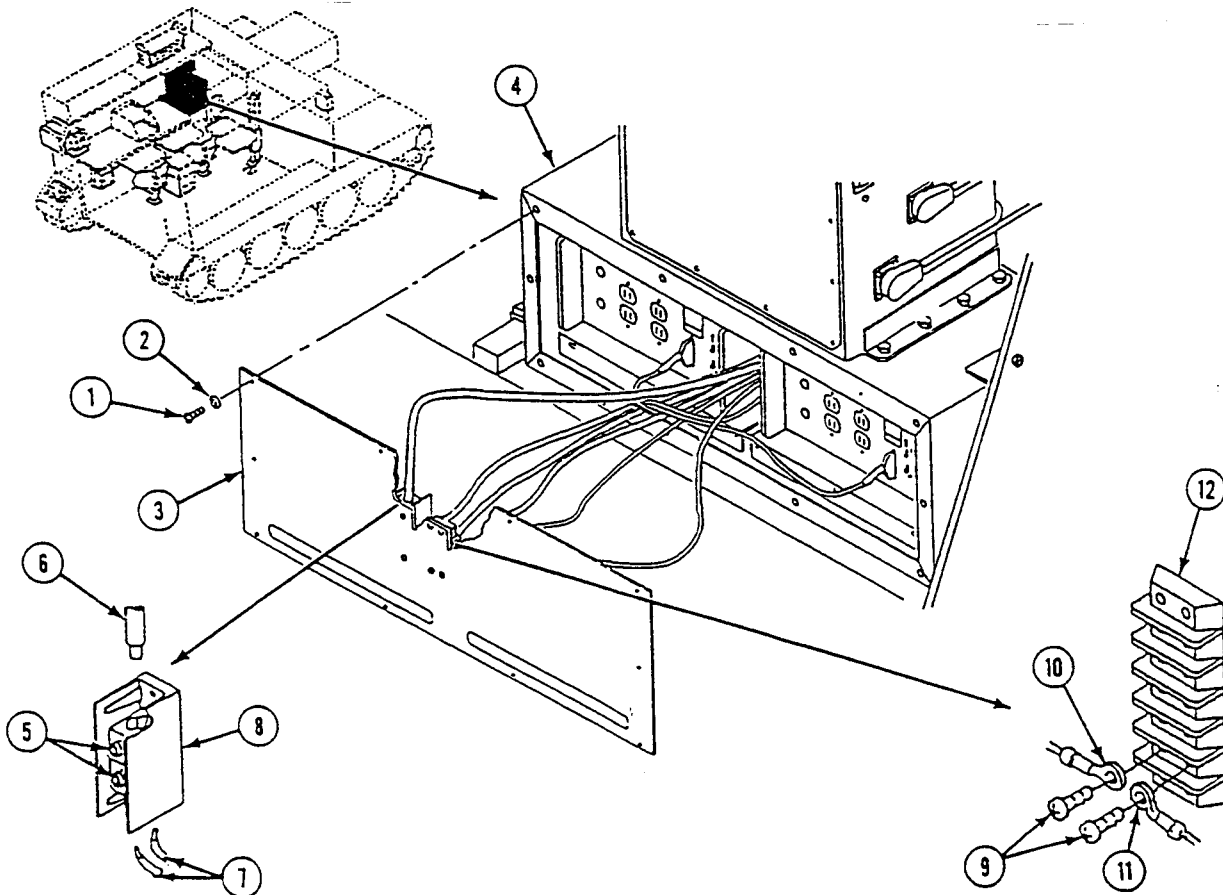
0830 00

— Continued

NOTE

Tag all leads before disconnecting.

2. Loosen two set screws (5) and remove cable W6 lead E2 (6) and two inverter leads E4 (7) from terminal block TB1 (8).
3. Remove ten screws (9), cable W5 leads E1 through E5 (10), and six inverter leads (11) from terminal block TB2 (12).

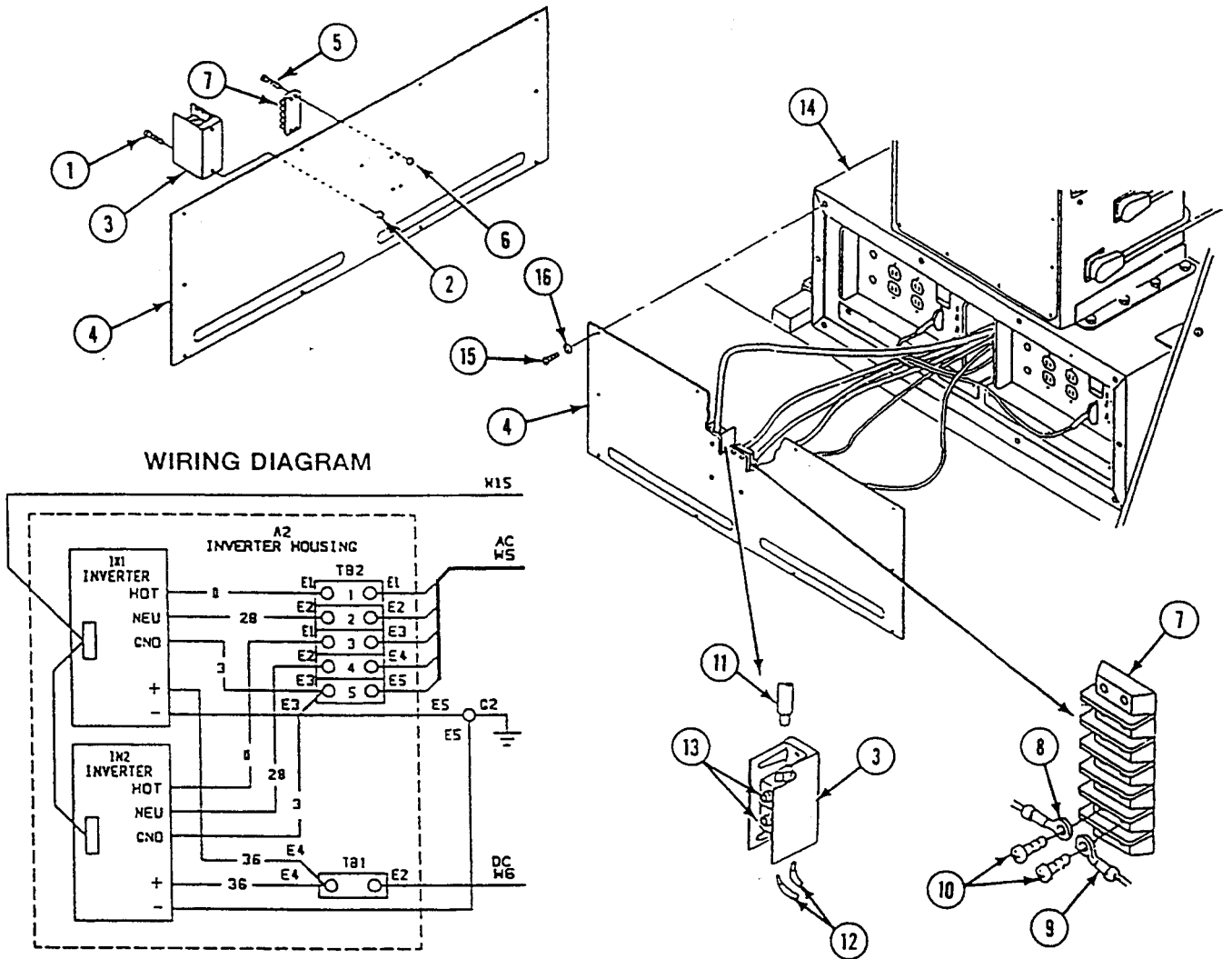


REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068A3 ONLY)

0830 00

— Continued

4. Remove two screws (1), locknuts (2), and terminal block TB1 (3) from cover (4). Discard locknuts.
5. Remove four screws (5), locknuts (6), and terminal block TB2 (7) from cover (4). Discard locknuts.



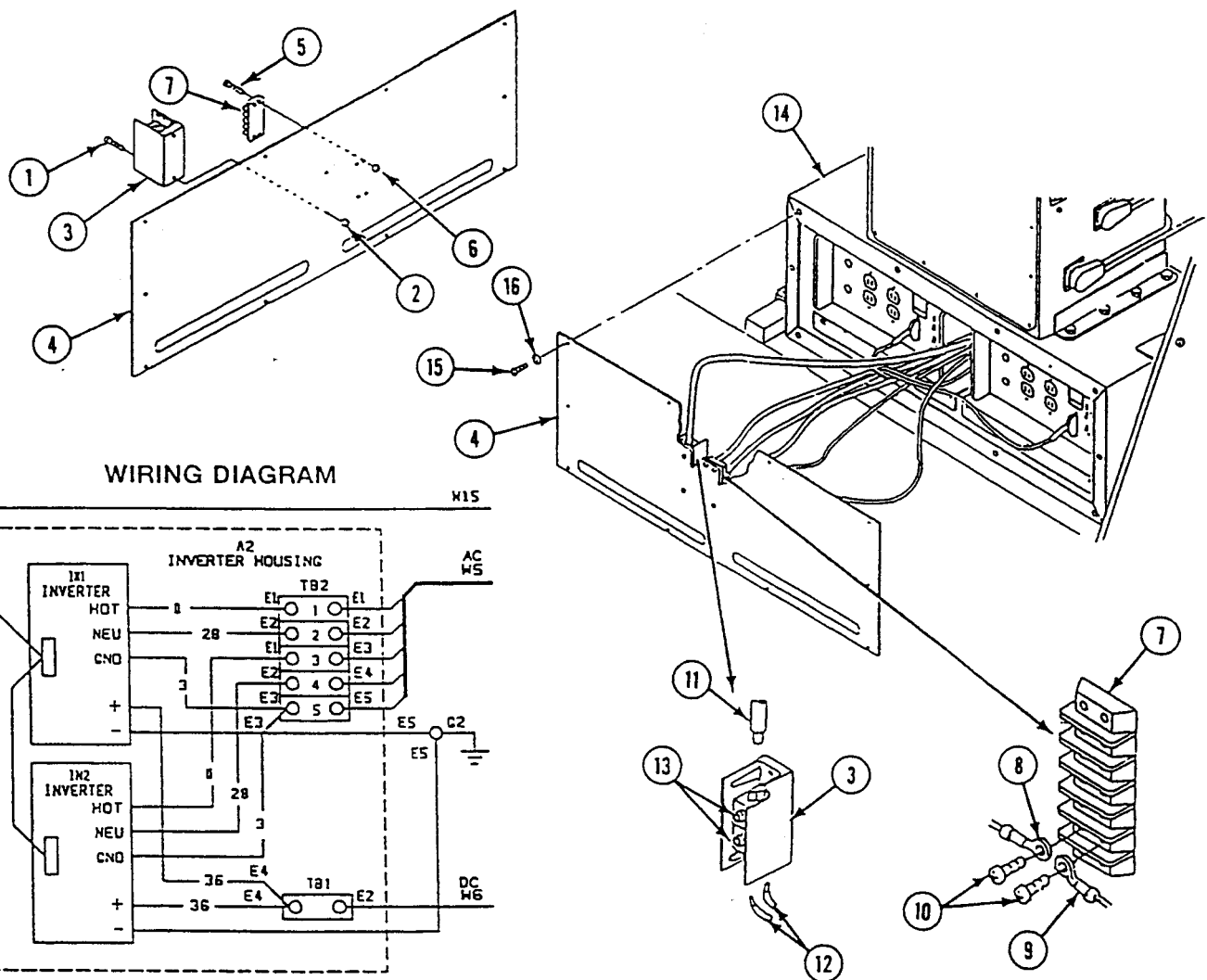
REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068A3 ONLY)

0830 00

— Continued

INSTALLATION

1. Install terminal block TB2 (7) on cover (4). Secure with four screws (5) and new locknuts (6).
2. Install terminal block TB1 (3) on cover (4). Secure with two screws (1) and new locknuts (2).
3. Connect cable W5 leads E1 through E5 (8) and six inverter leads (9) to terminal block TB2 (7). Use wiring diagram. Secure with ten screws (10).
4. Insert cable W6 lead E2 (11) and two inverter leads E4 (12) into terminal block TB1 (3). Use wiring diagram. Secure with two set screws (13).
5. Install cover (4) on inverter housing (14). Secure with ten screws (15) and new lockwashers (16).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

CONVERT PRIMARY POWER INVERTER TO SLAVE (ALL EXCEPT OUTBACK)

0830 01

THIS WORK PACKAGE COVERS:

Convert Primary Power Inverter to Slave (page 0830 01-1).

INITIAL SETUP:

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Carrier blocked (TM 9-2350-277-10)

All external power disconnected (TM 11-7010-256-12&P)

Personnel Required

Power-Generation Equipment Repairer 52D10

Battery ground lead disconnected (WP 0338 00)

References

WP 0338 00

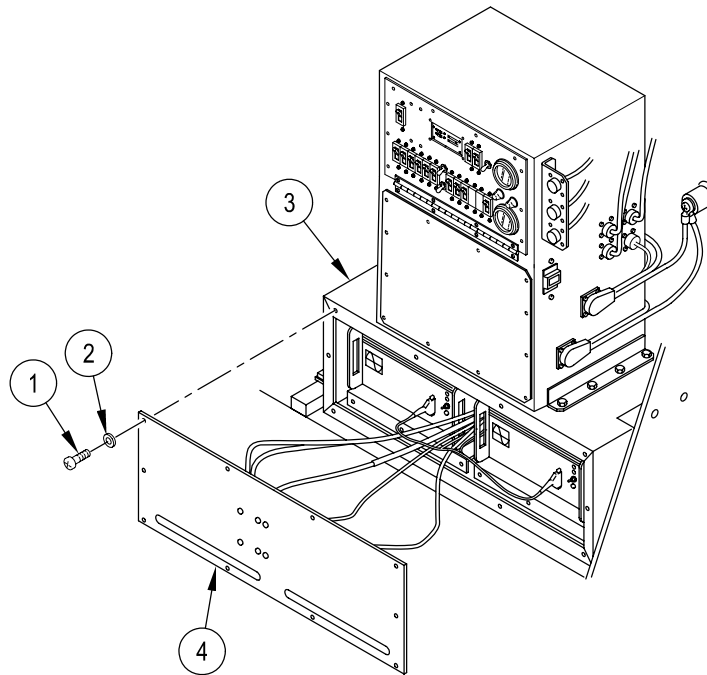
CONVERT PRIMARY POWER INVERTER TO SLAVE

NOTE

By switching the W15 cable connectors, the faulty inverter becomes the slave and can stay dormant, while the reassigned new primary inverter will function and provide 50% power output (2.5 kW/20 amps maximum).

This procedure should only be used as a temporary repair until maintenance can replace the faulty power inverter.

1. Remove ten screws (1), lockwashers (2), and cover (4) from inverter housing (3). Discard lockwashers.



**CONVERT PRIMARY POWER INVERTER TO SLAVE (ALL EXCEPT
OUTBACK) — Continued**

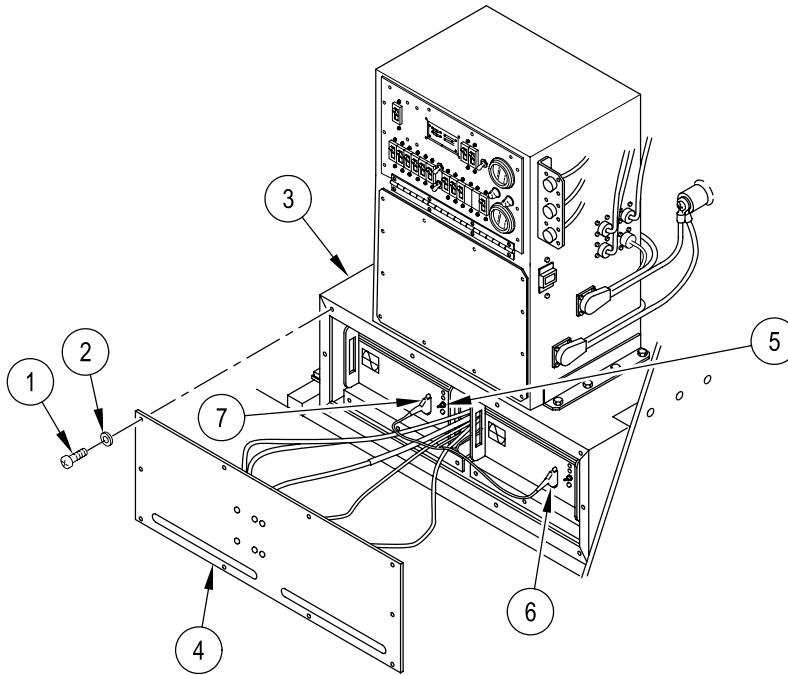
0830 01

- Turn the power switch (5) on the failed inverter to OFF.

CAUTION

Install W15 cable connector carefully and properly secure and snug with the attached screws. Do not overtighten. An improperly connected or loose connector or missing screws may cause the inverter to short circuit resulting in damage and failure to operate.

- Remove W15 cable connectors from inverters IN1 (7) and IN2 (6). Reconnect the red W15 cable connector to inverter IN2 (6). Do not reconnect the black W15 cable connector.
- Install access cover (4) on inverter housing (3) and secure with ten screws (1) and new lockwashers (2).

**FOLLOW-THROUGH STEPS**

- Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE/REPAIR POWER DISTRIBUTION BOX A3 (M1068A3 ONLY)

0831 00

THIS WORK PACKAGE COVERS:

- Removal (page 0831 00-1).
- Disassembly (page 0831 00-3).
- Assembly (page 0831 00-3).
- Installation (page 0831 00-4).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
All external power disconnected
(TM 11-7010-256-12&P)
Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Lockwasher (12)
Locknut (4)

Personnel Required

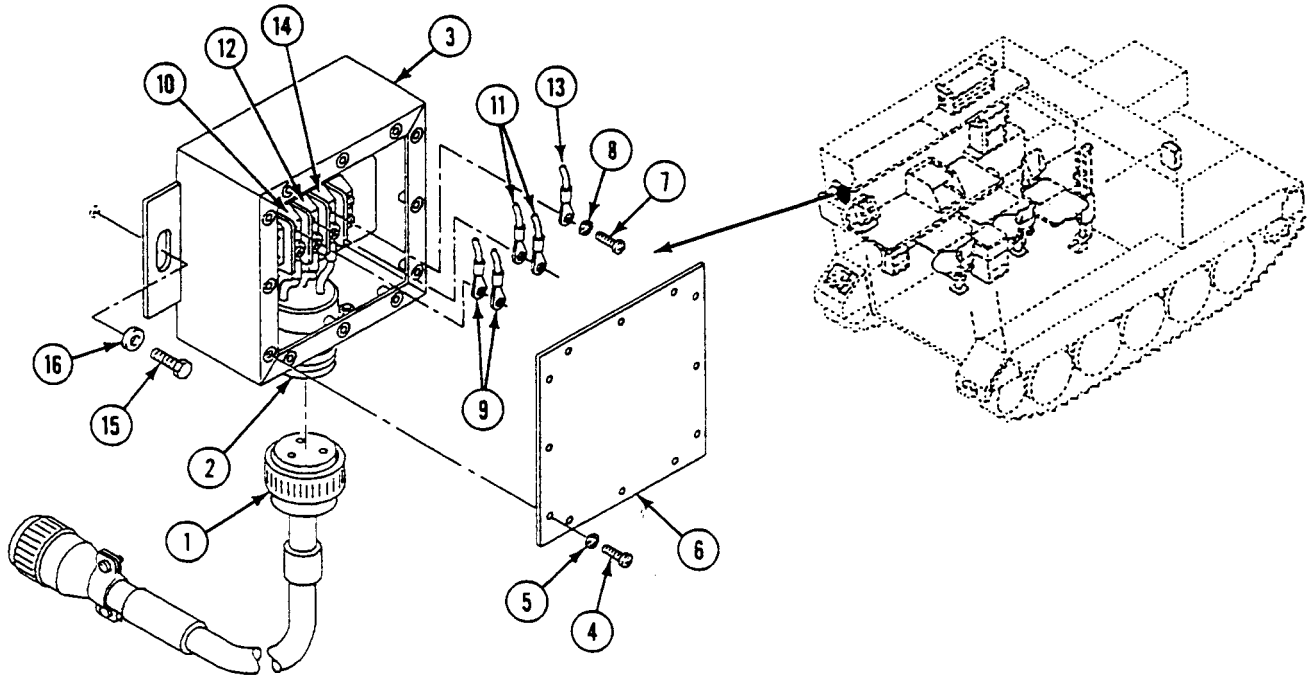
Power-Generation Equipment Repairer 52D10
Helper (H)

REMOVAL

NOTE

Tag all wires before removal.

1. Disconnect cable (1) from connector (2) on power distribution box (3).
2. Remove 12 screws (4), lockwashers (5), and lid (6) from power distribution box (3). Discard lockwashers.
3. Remove screw (7), washer (8), and two circuit 1 leads (9) from terminal 1 (10).
4. Remove screw (7), washer (8), and two circuit 2 leads (11) from terminal 2 (12).
5. Remove screw (7), washer (8), and circuit 3 lead (13) from terminal 3 (14).
6. Remove two screws (15), washers (16), and power distribution box (3) from bulkhead.

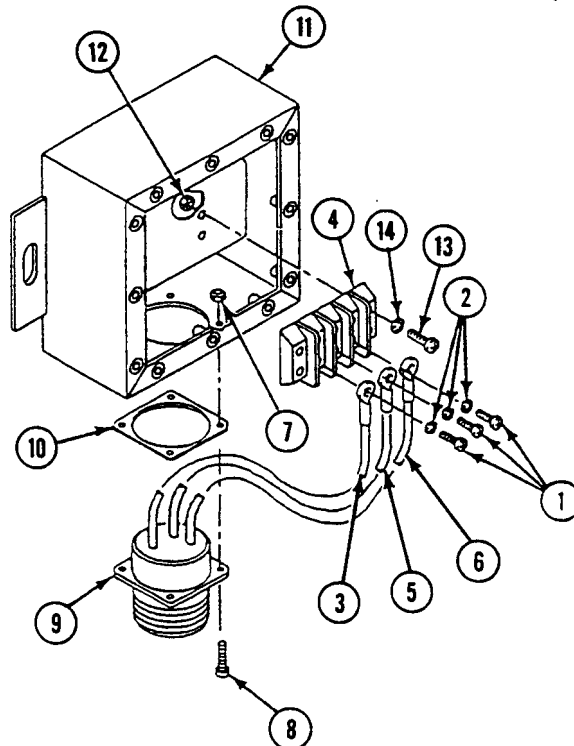


DISASSEMBLY

1. Remove screw (1), lockwasher (2), and circuit 1 lead (3) from terminal 1 of terminal block (4).
2. Remove screw (1), lockwasher (2), and circuit 2 lead (5) from terminal 2 of terminal block (4).
3. Remove screw (1), lockwasher (2), and circuit 3 lead (6) from terminal 3 of terminal block (4).
4. Remove four locknuts (7), screws (8), connector (9), and gasket (10) from power distribution box (11). Discard locknuts.
5. Remove four nuts (12), screws (13), lockwashers (14), and terminal block (4) from power distribution box (11).

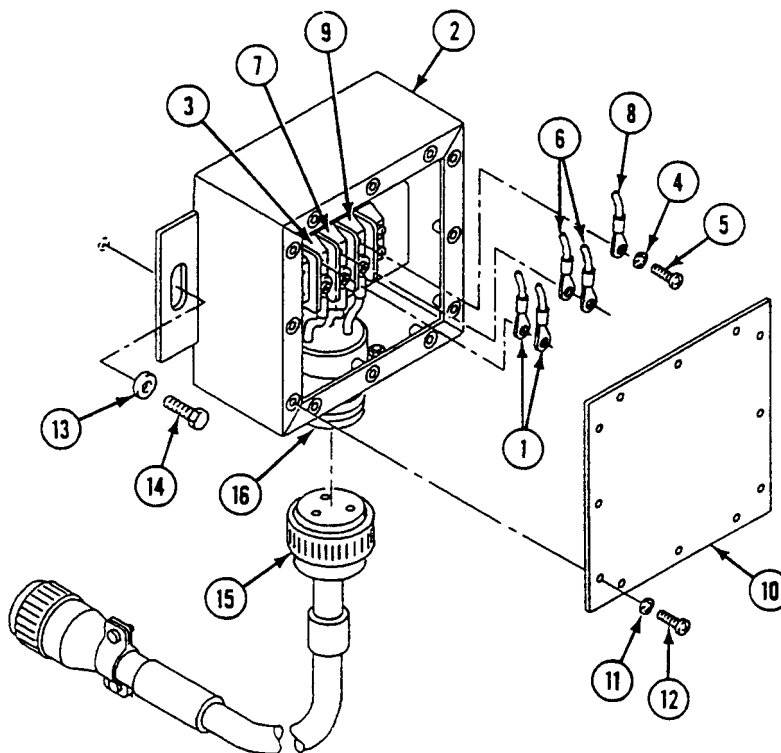
ASSEMBLY

1. Install terminal block (4), four lockwashers (14), screws (13), and nuts (12) on power distribution box (11).
2. Install gasket (10), connector (9), four screws (8), and new locknuts (7) on power distribution box (11).
3. Install circuit 3 lead (6), lockwasher (2), and screw (1) on terminal 3 of terminal block (4).
4. Install circuit 2 lead (5), lockwasher (2), and screw (1) on terminal 2 of terminal block (4).
5. Install circuit 1 lead (3), lockwasher (2), and screw (1) on terminal 1 of terminal block (4).



INSTALLATION

1. Install two circuit 1 leads (1) through back of power distribution box (2). Secure to terminal (3) with washer (4) and screw (5). Have helper assist.
2. Install two circuits 2 leads (6) through back of power distribution box (2). Secure to terminal (7) with washer (4) and screw (5). Have helper assist.
3. Install circuit 3 lead (8) through back of power distribution box (2). Secure to terminal (9) with washer (4) and screw (5). Have helper assist.
4. Install lid (10) on power distribution box (2). Secure with 12 new lockwashers (11) and screws (12).
5. Install power distribution box (2) on bulkhead. Secure with two washers (13) and screws (14).
6. Connect cable (15) to connector (16) on power distribution box (2).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE POWER ENTRY BOX ASSEMBLY A4 (M1068A3 ONLY)

0832 00

THIS WORK PACKAGE COVERS:

Removal (page 0832 00-1).
 Installation (page 0832 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Materials/Parts

Adhesive (WP 0928 00, Item 7)
 Lockwasher (12)

Personnel Required

Power-Generation Equipment Repairer 52D10
 Helper (H)

References

See your -10
 TM 11-7010-256-12&P

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

REMOVAL

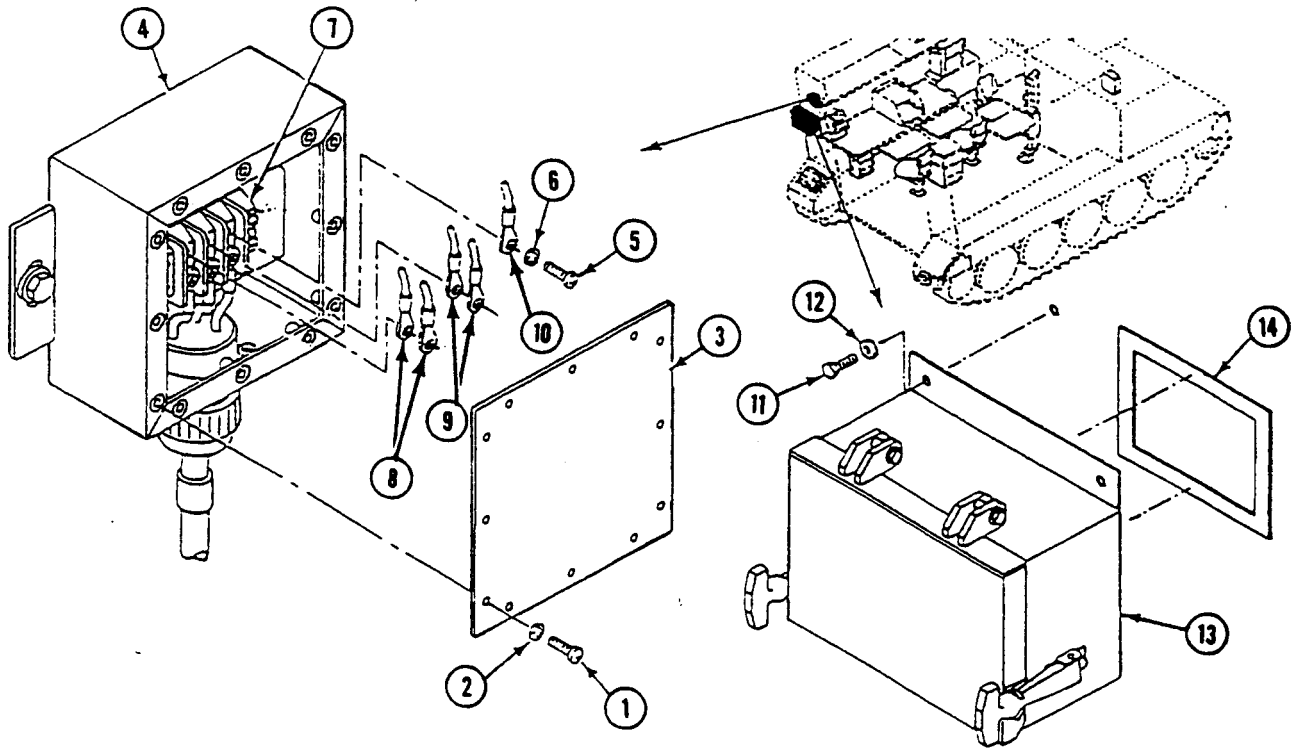
NOTE

Tag all leads during removal for proper installation later.

REPLACE POWER ENTRY BOX ASSEMBLY A4 (M1068A3 ONLY) — Continued

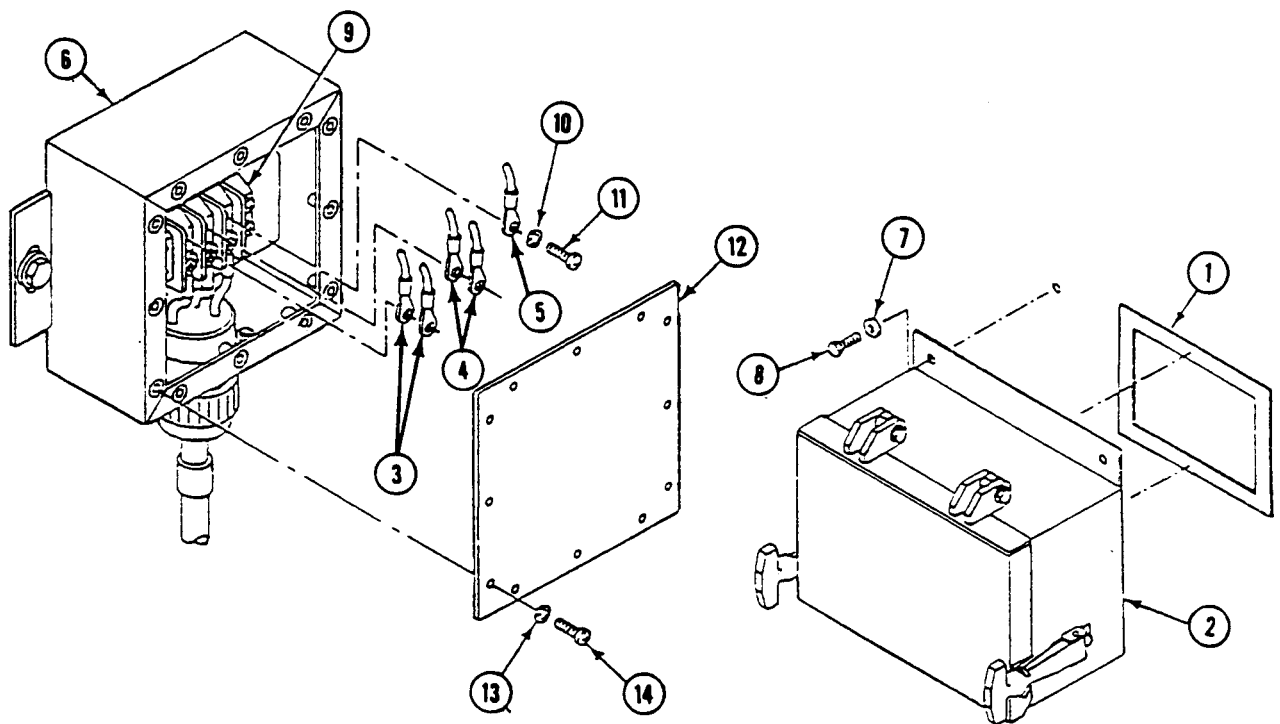
0832 00

1. Remove 12 screws (1), lockwashers (2), and lid (3) from power distribution box (4). Discard lockwashers.
2. Remove three screws (5) and lockwashers (6) from terminal block (7).
3. Remove two cable W13 leads (8), two cable W14 leads (9), and one ground lead (10) from terminal block (7).
4. Remove three screws (11), washers (12), and power entry box (13) from external rear bulkhead. Feed leads through rear of bulkhead. Have helper assist.
5. Do not remove gasket (14) unless damaged.



INSTALLATION

1. If gasket (1) was removed in Step 5, cement new gasket on rear of power entry box (2).
2. Insert cables W13 (3), W14 (4), and ground lead (5) into power distribution box (6). Feed leads through rear of bulkhead. Have helper assist.
3. Install power entry box (2) on external rear bulkhead. Secure with three washers (7) and screws (8).
4. Install two cable W13 leads (3) on terminal 1 of terminal block (9). Secure with lockwasher (10) and screw (11).
5. Install two cable W14 leads (4) on terminal 2 of terminal block (9). Secure with lockwasher (10) and screw (11).
6. Install ground cable lead (5) on terminal 3 of terminal block (9). Secure with lockwasher (10) and screw (11).
7. Install lid (12) on power distribution box (6). Secure with 12 new lockwashers (13) and screws (14).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE TENT INTERFACE PANEL BOX ASSEMBLY A5 (M1068A3 ONLY)

0833 00

THIS WORK PACKAGE COVERS:

Removal (page 0833 00-1).
 Installation (page 0833 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
 Radio Equipment Tool Kit (WP 0926 00, Item 66)

Personnel Required

Power Generation Equipment Repairer 52D10
 Signal Support System Specialist 31U10

References

See your -10
 TM 11-7010-256-12&P

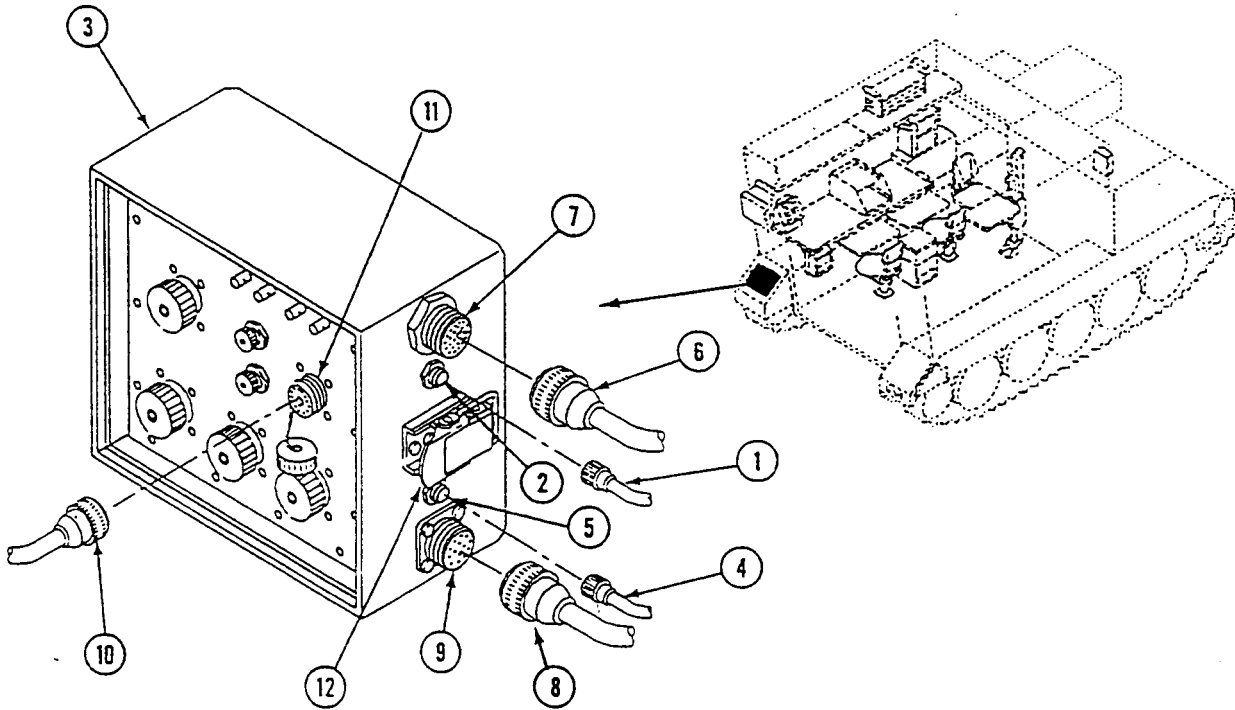
Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

REMOVAL

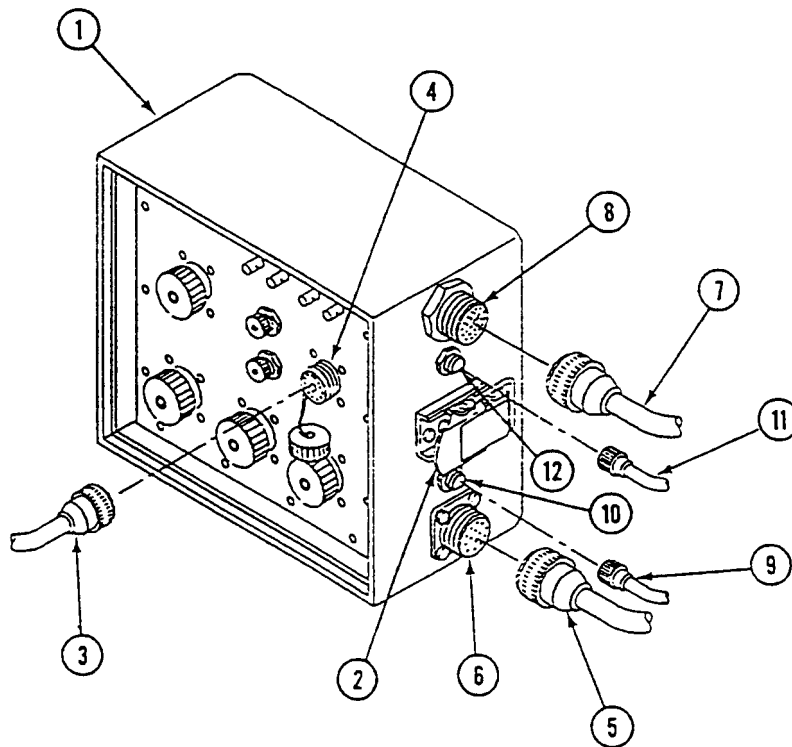
1. Disconnect W32P8 (1) from J10 (2) of tent interface panel (3).

2. Disconnect W32P9 (4) from J9 (5) of tent interface panel (3).
3. Disconnect W32P7 (6) from J8 (7) of tent interface panel (3).
4. Disconnect W32P6 (8) from J7 (9) of tent interface panel (3).
5. Disconnect W129P1 (10) from J137 (11) of tent interface panel (3).
6. Release two catches (12) and remove tent interface panel (3) from carrier.



INSTALLATION

1. Install tent interface panel (1) in carrier and secure with two catches (2).
2. Connect W129P1 (3) to J137 (4) of tent interface panel (1).
3. Connect W32P6 (5) to J7 (6) of tent interface panel (1).
4. Connect W32P7 (7) to J8 (8) of tent interface panel (1).
5. Connect W32P9 (9) to J9 (10) of tent interface panel (1).
6. Connect W32P8 (11) to J10 (12) of tent interface panel (1).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

**REPLACE AC POWER EXTENSION BOX A6 AND DC POWER EXTENSION
BOX A9 AND MOUNT (M1068A3 ONLY)**

0834 00

THIS WORK PACKAGE COVERS:

Removal (page 0834 00-1).
Installation (page 0834 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
All external power disconnected
(TM 11-7010-256-12&P)
Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Locknut (8)

Personnel Required

Power-Generation Equipment Repairer 52D10

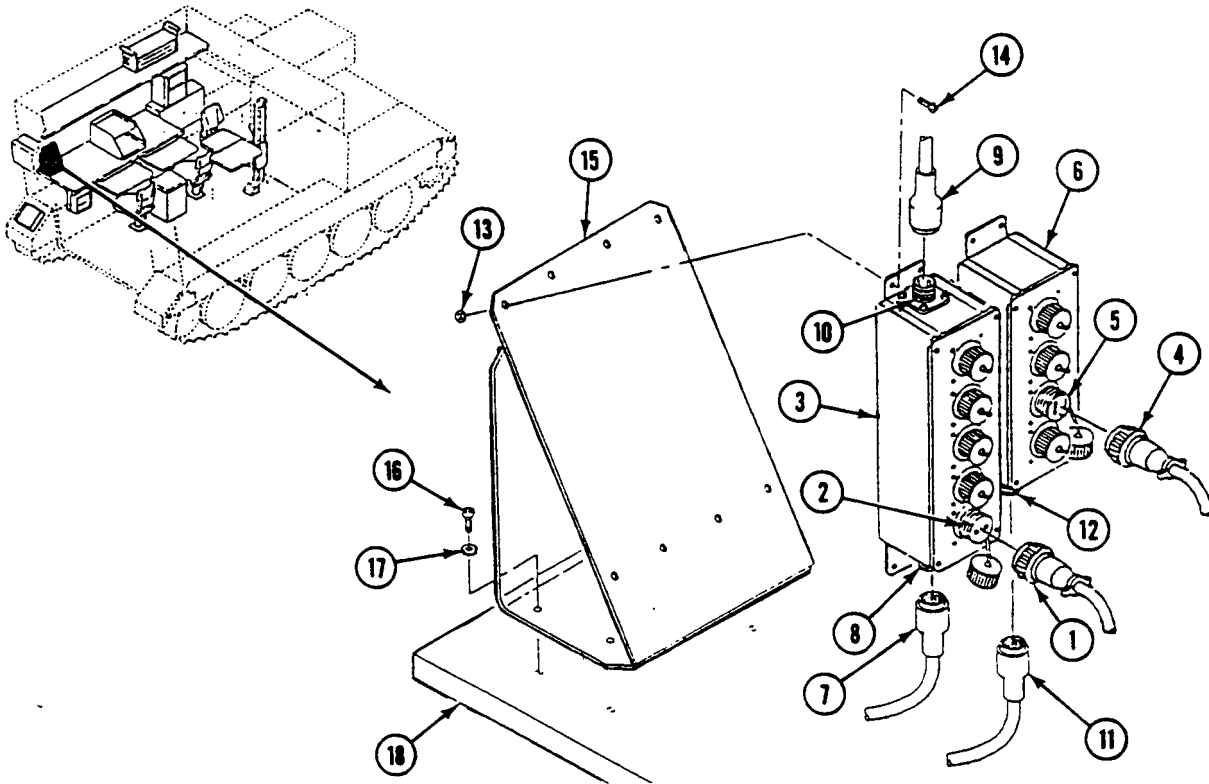
REMOVAL

1. Disconnect UPS cable W42 (1) from connector (2) on DC power extension box (3).

REPLACE AC POWER EXTENSION BOX A6 AND DC POWER EXTENSION BOX A9 AND MOUNT (M1068A3 ONLY) — Continued

0834 00

2. Disconnect UPS cable W43 (4) from connector (5) on AC power extension box (6).
3. Disconnect cable W10 (7) from connector (8) on DC power extension box (3).
4. Disconnect cable W45 (9) from connector (10) on DC power extension box (3).
5. Disconnect cable W7 (11) from connector (12) on AC power extension box (6).
6. Remove eight locknuts (13), screws (14), and two power extension boxes (3) and (6) from mount (15). Discard locknuts.
7. Remove four screws (16), washer (17), and mount (15) from work station (18).

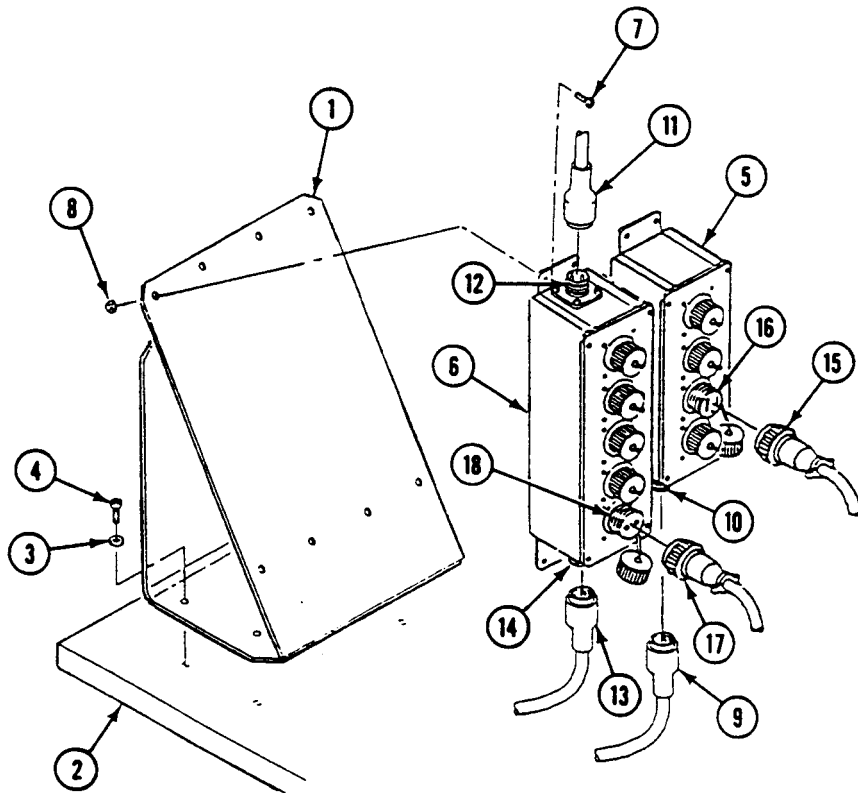


REPLACE AC POWER EXTENSION BOX A6 AND DC POWER EXTENSION BOX A9 AND MOUNT (M1068A3 ONLY) — Continued

0834 00

INSTALLATION

1. Install mount (1) on work station (2) with four washers (3) and screws (4).
2. Install two power extension boxes (5) and (6) on mount (1) with eight screws (7) and new locknuts (8).
3. Connect cable W7 (9) to connector (10) on AC power extension box (5).
4. Connect cable W45 (11) to connector (12) on DC power extension box (6).
5. Connect cable W10 (13) to connector (14) on DC power extension box (6).
6. Connect UPS cable W43 (15) to connector (16) on AC power extension box (5).
7. Connect UPS cable W42 (17) to connector (18) on DC power extension box (6).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

**REPLACE ROADSIDE DATA PANEL ASSEMBLY A13 AND BRACKET
(M1068A3 ONLY)**

0835 00

THIS WORK PACKAGE COVERS:

Removal (page 0835 00-1).
Installation (page 0835 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
All external power disconnected
(TM 11-7010-256-12&P)
Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Locknut (2)

Personnel Required

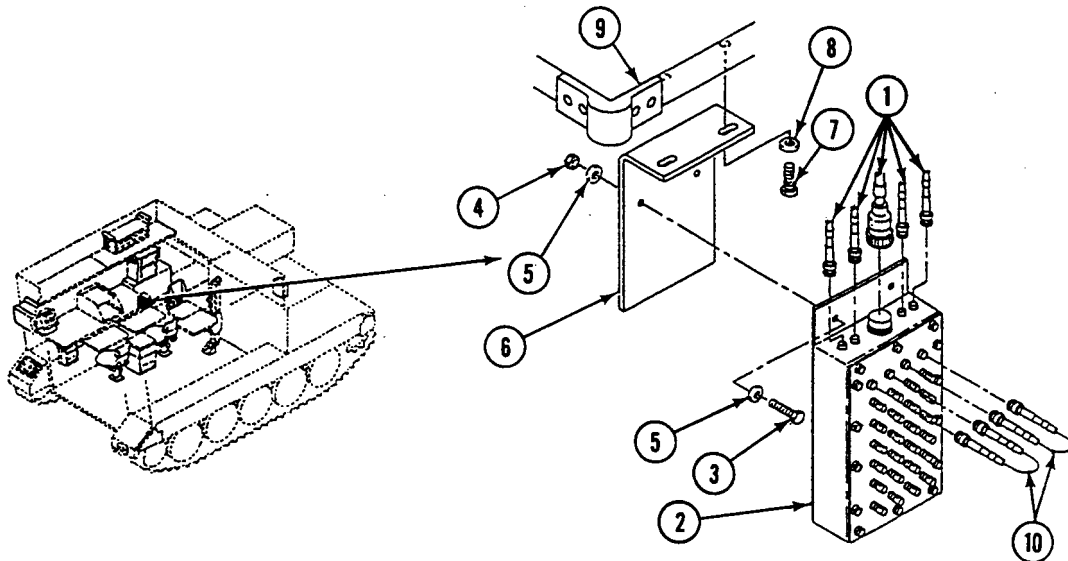
Signal Support System Specialist 31U10

REMOVAL

NOTE

Tag all cables before removal for installation later.

1. Disconnect five cables (1) from roadside data panel assembly (2).
2. Remove two screws (3), locknuts (4), four washers (5), and roadside data panel assembly (2) from mounting bracket (6). Discard locknuts.
3. Remove two screws (7), washers (8), and mounting bracket (6) from extension base (9).
4. Remove two cables (10) from roadside data panel assembly (2).

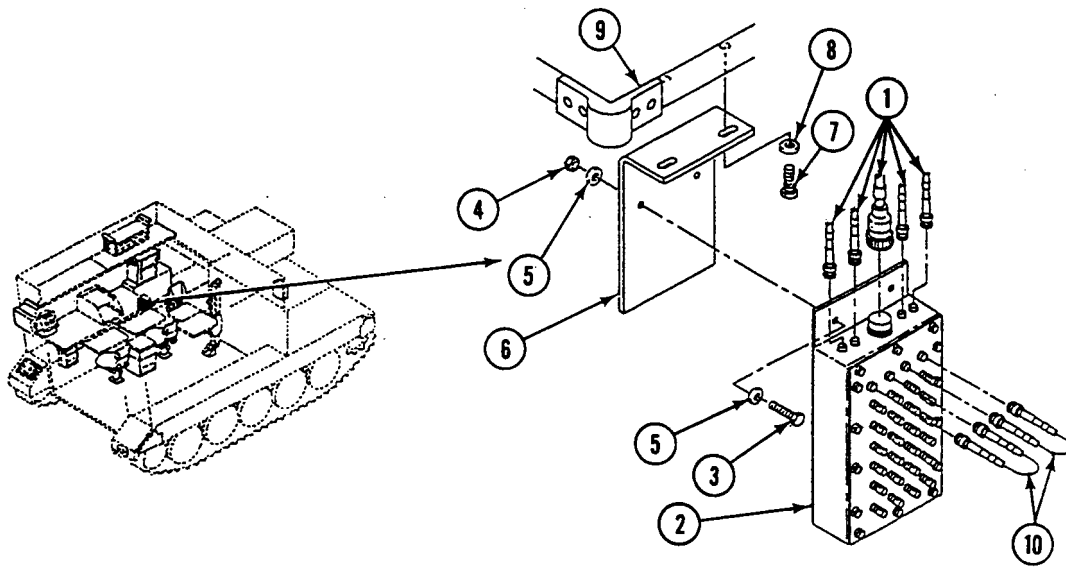


REPLACE ROADSIDE DATA PANEL ASSEMBLY A13 AND BRACKET (M1068A3 ONLY) —
Continued

0835 00

INSTALLATION

1. Install two cables (10) on roadside data panel assembly (2).
2. Install bracket (6), two washers (8), and screws (7) on extension base (9).
3. Install roadside data panel assembly (2), four washers (5), two screws (3), and new locknuts (4) on mounting bracket (6).
4. Connect five cables (1) to roadside data panel assembly (2).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE POWER EXTENSION BOX A18 AND BRACKET (M1068A3 ONLY)

0836 00

THIS WORK PACKAGE COVERS:

Removal (page 0836 00-1).
 Installation (page 0836 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

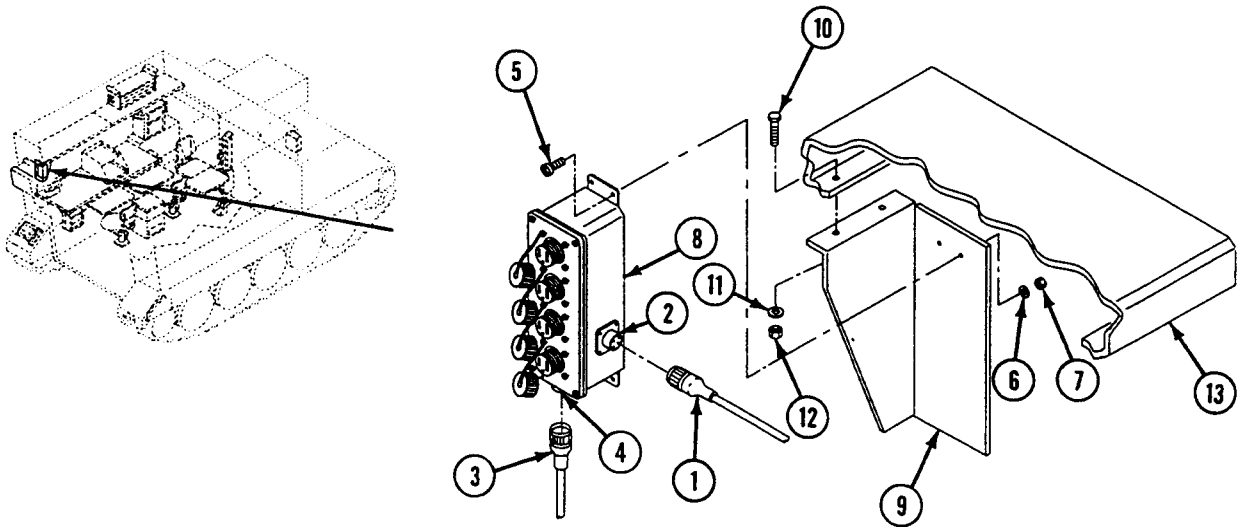
Locknut (4)
 Lockwasher (2)

Personnel Required

Unit Mechanic

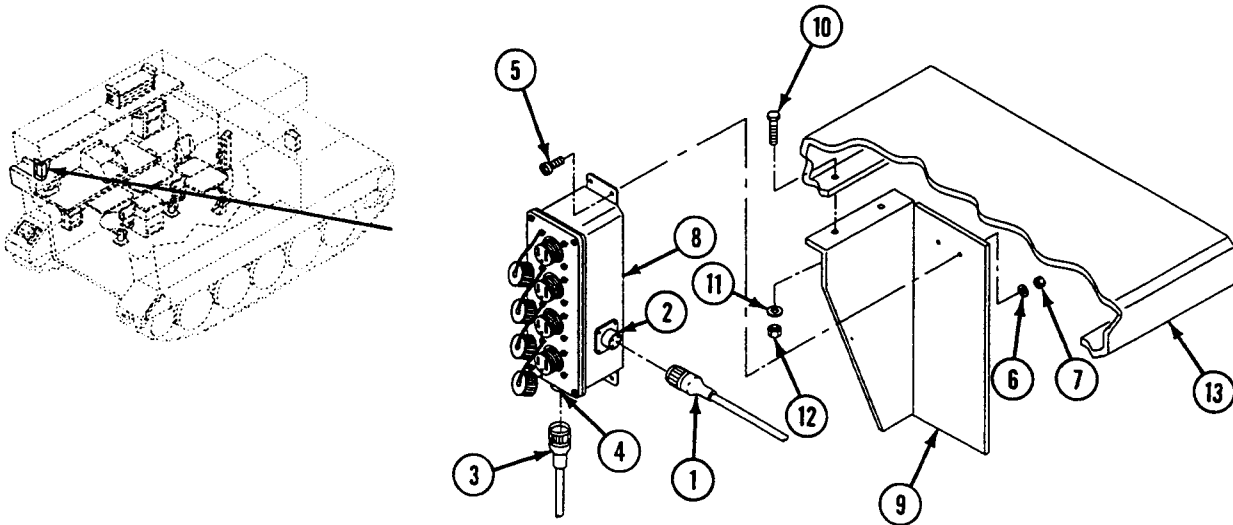
REMOVAL

1. Disconnect cable W252 plug P1 (1) from Power extension box A18 jack J1 (2).
2. Disconnect cable W251 plug P1 (3) from Power extension box A18 jack J6 (4).
3. Remove four screws (5), washers (6), locknuts (7), and power extension box A18 (8) from bracket (9). Discard locknuts.
4. Remove two screws (10), lockwashers (11), nuts (12), and bracket (9) from radio shelf (13). Discard lockwashers.



INSTALLATION

1. Install bracket (9) on radio shelf (13). Secure with two screws (10), new lockwashers (11), and nuts (12).
2. Install power extension box A18 (8) on bracket (9). Secure with four screws (5), washers (6), and new locknuts (7).
3. Connect cable W251 plug P1 (3) to power extension box A18 jack J5 (4).
4. Connect cable W252 plug P1 (1) to power extension box A18 jack J1 (2).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE POWER DISTRIBUTION CABLE (W3) (M1068A3 ONLY)

0837 00

THIS WORK PACKAGE COVERS:

Removal (page 0837 00-1).
 Installation (page 0837 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Strap (6)

Personnel Required

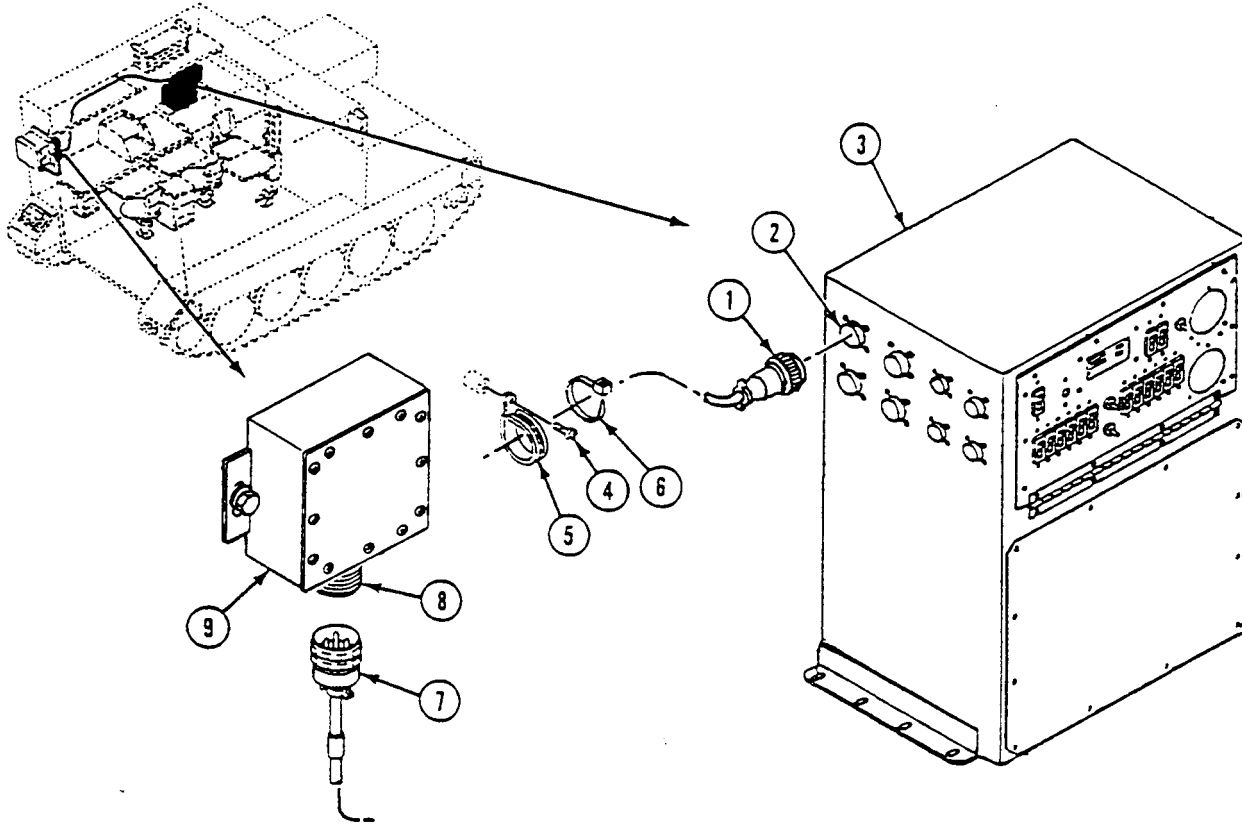
Power-Generation Equipment Repairer 52D10

REMOVAL

1. Disconnect W3 cable plug P3 (1) from jack J24 (2) on power control enclosure A1 (3).

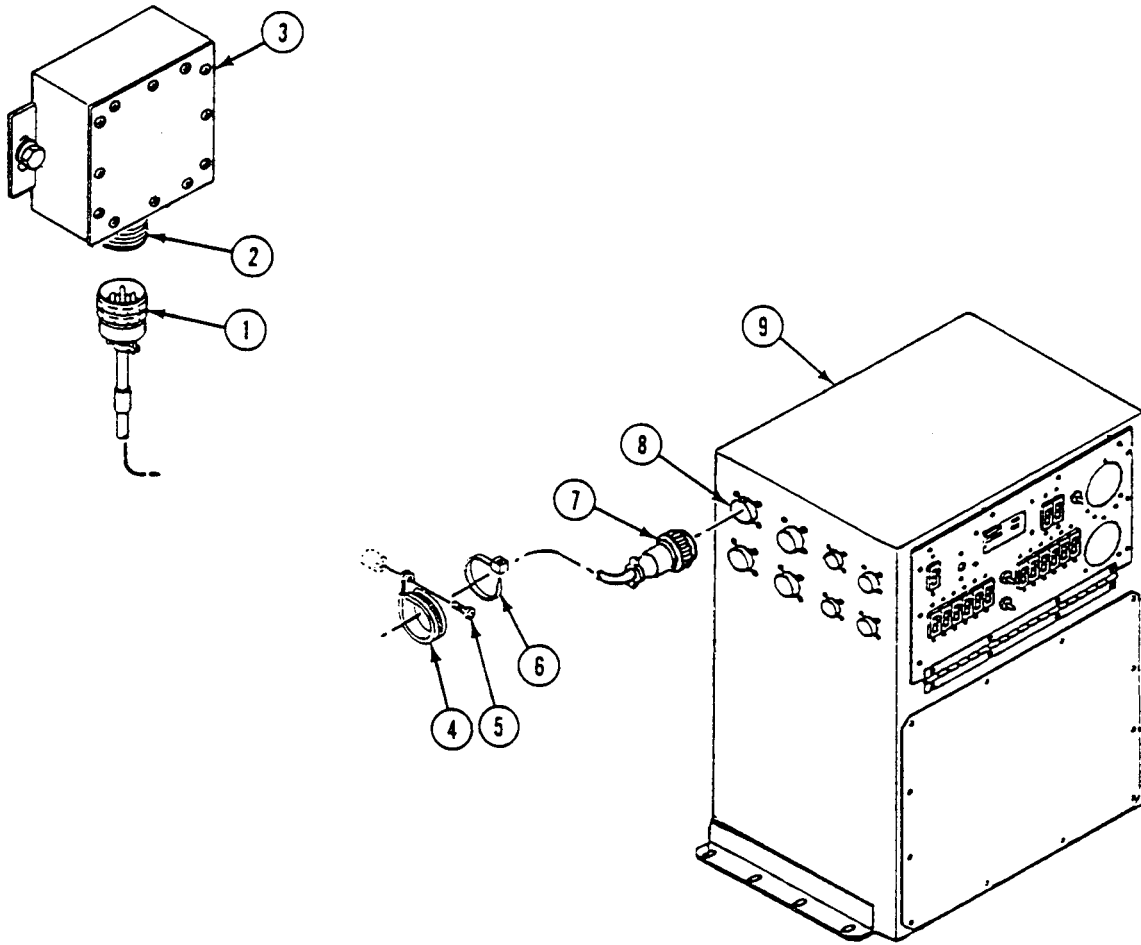
REPLACE POWER DISTRIBUTION CABLE (W3) (M1068A3 ONLY) — Continued**0837 00**

2. Remove four screws (4) and clamps (5) from hull weldnut. Remove clamps (5) from harness W3.
3. Cut six plastic cable straps (6). Discard straps.
4. Disconnect W3 cable plug P1 (7) from jack J1 (8) on power distribution box A3 (9).
5. Remove cable W3 (7) from carrier.



INSTALLATION

1. Install new W3 cable (1) in carrier.
2. Connect cable W3 plug P1 (1) to jack J1 (2) on power distribution box A3 (3).
3. Install four clamps (4) on cable W3 and secure to hull weldnuts with screws (5).
4. Install six new plastic cable straps (6) on cable W3.
5. Connect cable W3 plug P3 (7) to jack J24 (8) on power distribution enclosure A1 (9).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly.
3. Stop engine (see your -10).

END OF TASK

REPLACE DC BATTERY CABLE (W4) (M1068A3 ONLY)

0838 00

THIS WORK PACKAGE COVERS:

- Removal (page 0838 00-1).
- Installation (page 0838 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Digital Multimeter (WP 0926 00, Item 30)
- Electrical Tool Kit (WP 0926 00, Item 64)

Materials/Parts

- Lockwasher
- Strap (8)

Personnel Required

- Power-Generation Equipment Repairer 52D10

References

- See your -10
- TM 11-7010-256-12&P

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- All external power disconnected (TM 11-7010-256-12&P)
- Battery ground lead disconnected (WP 0338 00)

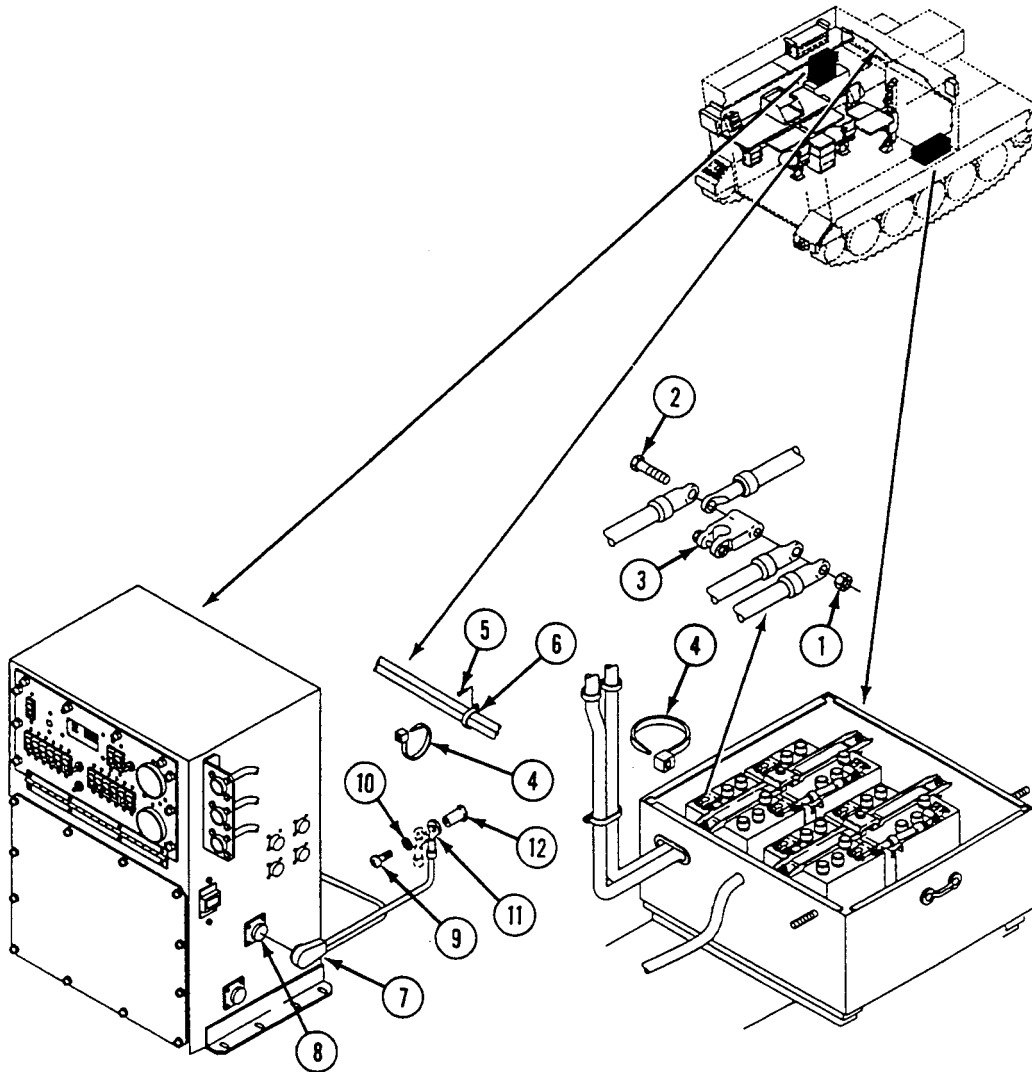
REMOVAL

1. Remove nut (1) and screw (2) and disconnect cable W4 E2 from positive battery terminal (3).

REPLACE DC BATTERY CABLE (W4) (M1068A3 ONLY) — Continued

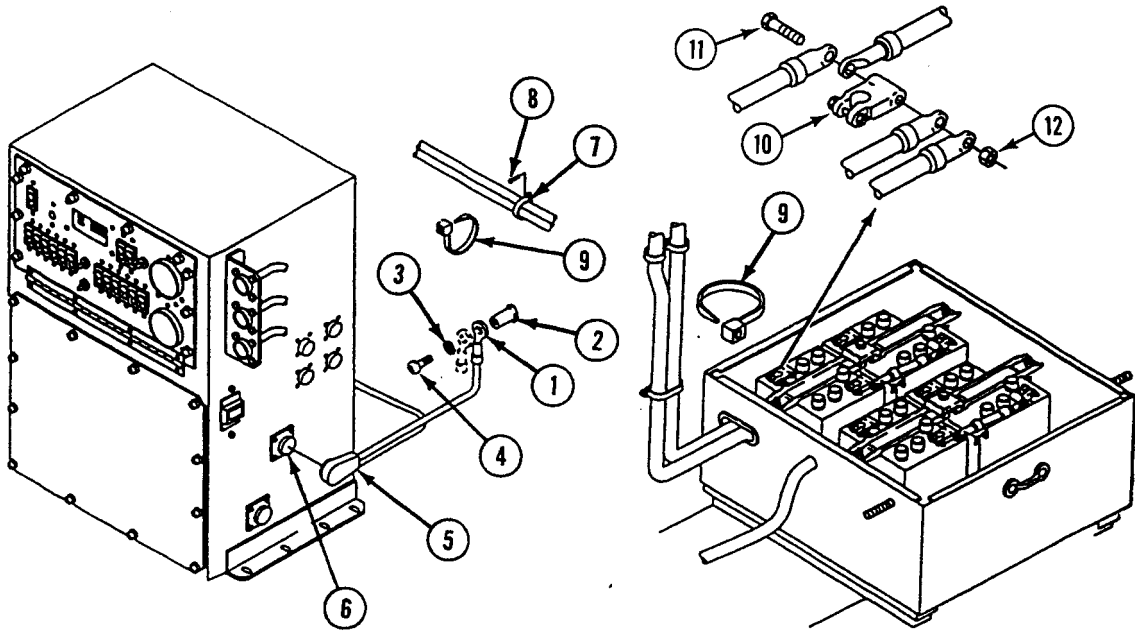
0838 00

2. Remove and discard eight plastic straps (4).
3. Remove six screws (5) and clamps (6).
4. Disconnect cable W4 P1 (7) from power control box A1 jack J25 (8).
5. Remove screw (9), lockwasher (10), and circuit 32 ground lead (11) from post G3 (12) on carrier hull. Discard lockwasher.
6. Remove cable W4 from carrier.



INSTALLATION

1. Install cable W4 in carrier.
2. Install circuit ground lead 32 (1) to post G3 (2) on carrier hull. Secure with new lockwasher (3) and screw (4).
3. Connect cable W4 P1 (5) to power control box jack J25 (6).
4. Route cable through six clamps (7). Secure with six screws (8).
5. Secure cable with eight new plastic tie straps (9).
6. Connect cable W4 E2 to positive battery terminal (10) with screw (11) and nut (12).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH ON (see your -10). Check that electrical system works properly.
3. Stop engine (see your -10).

END OF TASK

REPLACE/REPAIR INVERTER AC CABLE (W5) (M1068A3 ONLY)

0839 00

THIS WORK PACKAGE COVERS:

Removal (page 0839 00-1).
 Installation (page 0839 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

Digital Multimeter (WP 0926 00, Item 30)
 Electrical Tool Kit (WP 0926 00, Item 64)
 General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10

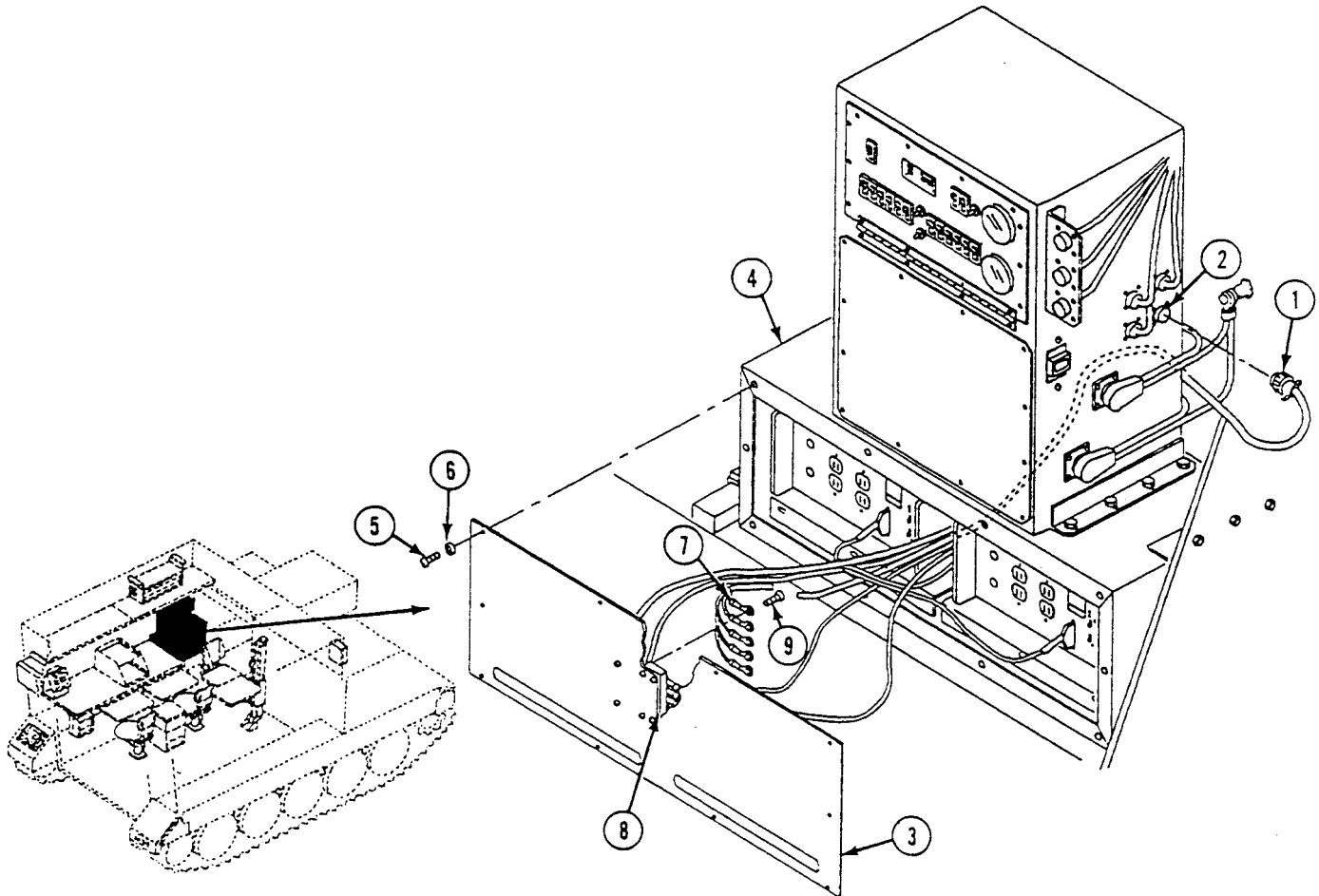
REMOVAL

NOTE

Tag all cables and leads before removal.

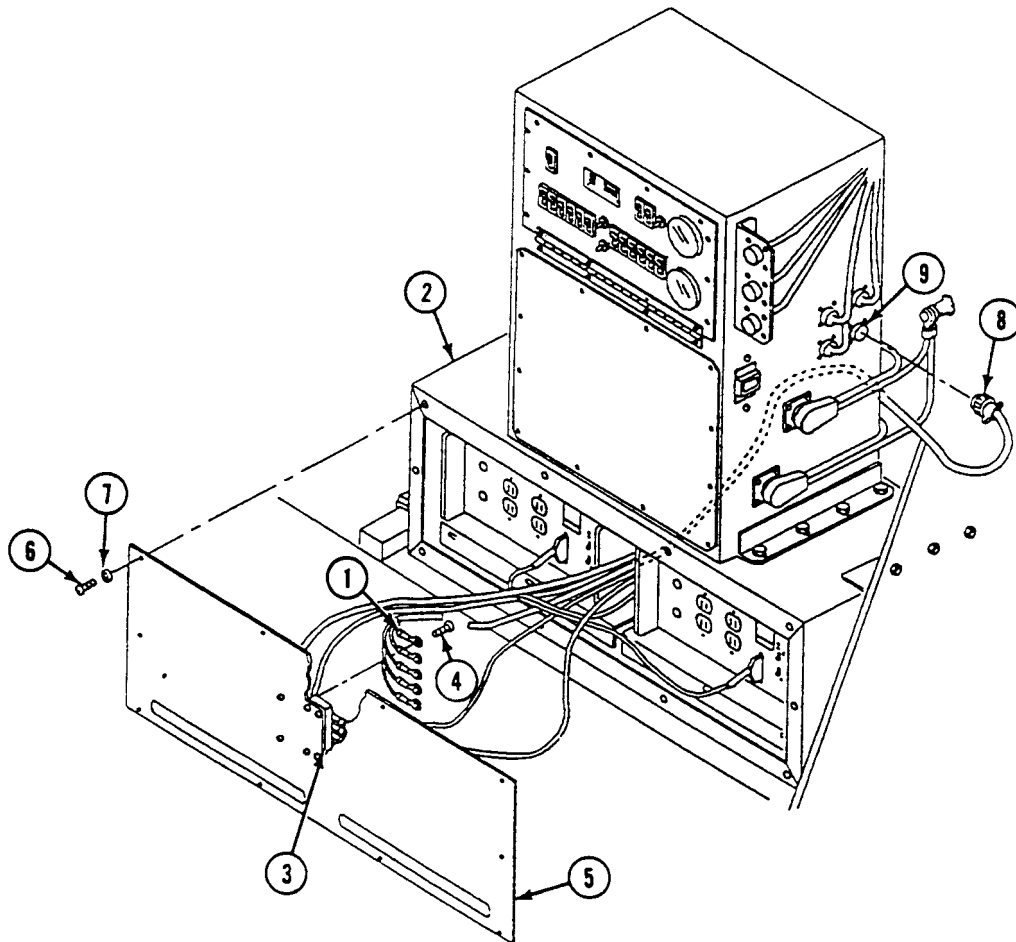
REPLACE/REPAIR INVERTER AC CABLE (W5) (M1068A3 ONLY) — Continued**0839 00**

1. Disconnect cable W5 P6 (1) from power control box A1 jack J27 (2).
2. Remove face plate (3) on inverter housing A2 (4) by removing 10 screws (5) and lockwashers (6). Discard lockwashers.
3. Remove opposite end of W5 by disconnecting five terminals E1 through E5 (7) from inverter terminal block TB2 (8). Remove five screws (9).
4. Remove harness W5 from inverter housing A2 (4) by pulling the harness through the back of housing. Remove harness from carrier.



INSTALLATION

1. Install new or repaired harness W5 in carrier. Route terminal ends (1) of W5 through back of inverter housing A2 (2) to the front for connection.
2. Install five terminal leads E1 through E5 (1) of W5 to inverter terminal block TB2 (3) with five screws (4).
3. Attach face plate (5) to front of inverter housing A2 (1) using 10 screws (6) and new lockwashers (7).
4. Connect cable W5 P6 (8) to power control box A1 jack J27 (9).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH ON (see your -10). Check that electrical system works properly.
3. Turn MASTER SWITCH OFF (see your -10).

END OF TASK

REPLACE INVERTER DC CABLE (W6) (M1068A3 ONLY)

0840 00

THIS WORK PACKAGE COVERS:

Removal (page 0840 00-1).
 Installation (page 0840 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
 Digital Multimeter (WP 0926 00, Item 30)
 Electrical Repair Kit (WP 0926 00, Item 64)

Materials/Parts

Lockwasher (10)
 Lockwasher (1)

Personnel Required

Power-Generation Equipment Repairer 52D10

References

See your -10
 TM 11-7010-256-12&P

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

REMOVAL

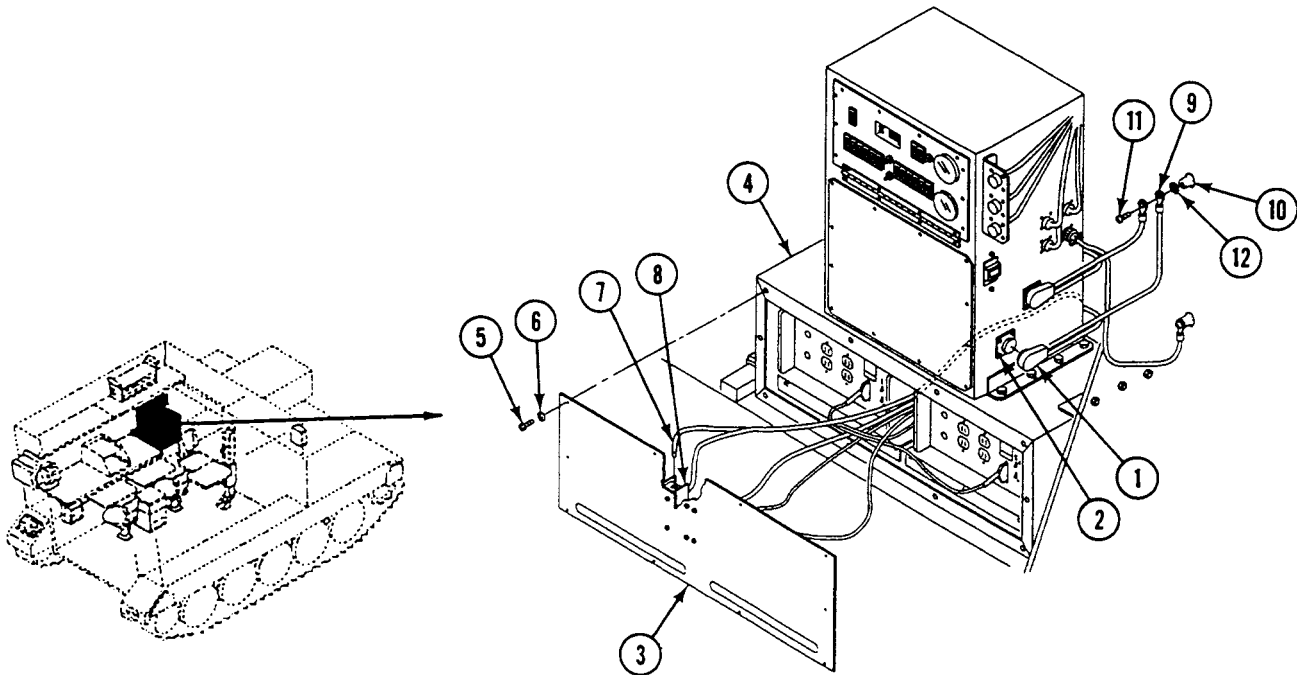
1. Disconnect cable W6 plug (1) from power control box A1 jack J26 (2).

2. Remove face plate (3) on inverter housing A2 (4) by removing 10 screws (5) and lockwashers (6). Discard lockwashers.
3. Disconnect harness W6 terminal E2 (7) from terminal block TB1 (8) on inverter housing faceplate (3).

NOTE

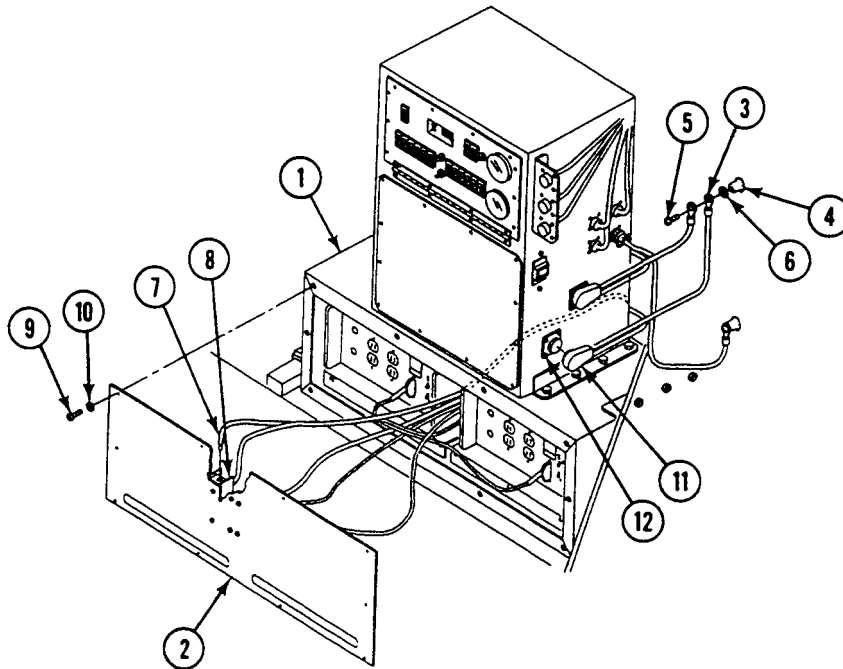
Ground post is located on hull wall between power control box A1 and driver's station.

4. Disconnect harness W6 terminal E1 (9) from ground post G3 (10). Remove screw (11) and lockwasher (12). Discard lockwasher.
5. Remove harness from carrier.



INSTALLATION

1. Install harness W6 in carrier. Route leads behind inverter housing A2 (1) to front face plate (2).
2. Connect harness W6 terminal E1 (3) to ground post G3 (4). Use screw (5) and new lockwasher (6). Make sure there are two leads connected to ground post G3.
3. Connect harness W6 terminal E2 (7) to terminal block TB1 (8) on inverter housing faceplate (2).
4. Attach face plate (2) to front of inverter housing A2 (1) using 10 screws (9) and new lockwashers (10).
5. Connect cable W6 plug (11) to power control box A1 jack J26 (12).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly.
3. Turn MASTER SWITCH to OFF (see your -10).

END OF TASK

REPAIR CABLE ASSEMBLY (W4/W6) (M1068A3 ONLY)

0841 00

THIS WORK PACKAGE COVERS:

Disassembly (page 0841 00-1).
 Assembly (page 0841 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
 Soldering Torch Kit (WP 0926 00, Item 55)

Equipment Condition

Cable Assembly W4 removed (WP 0838 00)
 Cable Assembly W6 removed (WP 0840 00)

Personnel Required

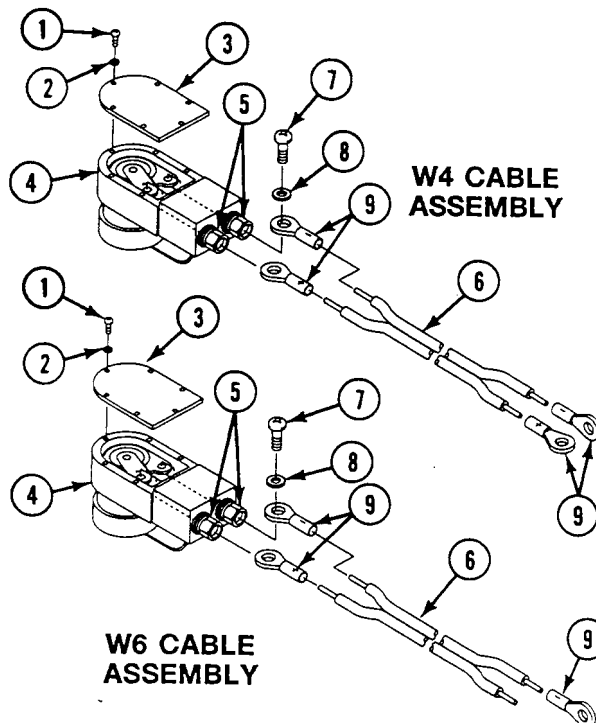
Unit Mechanic

DISASSEMBLY

NOTE

The W4 cable assembly has four terminals. The W6 cable assembly has three terminals and a bare wire end.

1. Remove six screws (1), washers (2), and cover (3) from connector (4).
2. Loosen two adapters (5) securing cables (6) in connector (4).
3. Remove two screws (7), washers (8), and two cables (6) from connector (4).
4. Remove four terminals (9) from cable assembly W4 or three terminals (9) from cable assembly W6.



ASSEMBLY

NOTE

The W4 cable assembly has two negative (-) terminals and two positive (+) terminals.

The W6 cable assembly has two negative (-) terminals and one positive (+) terminal and a positive (+) bare end wire.

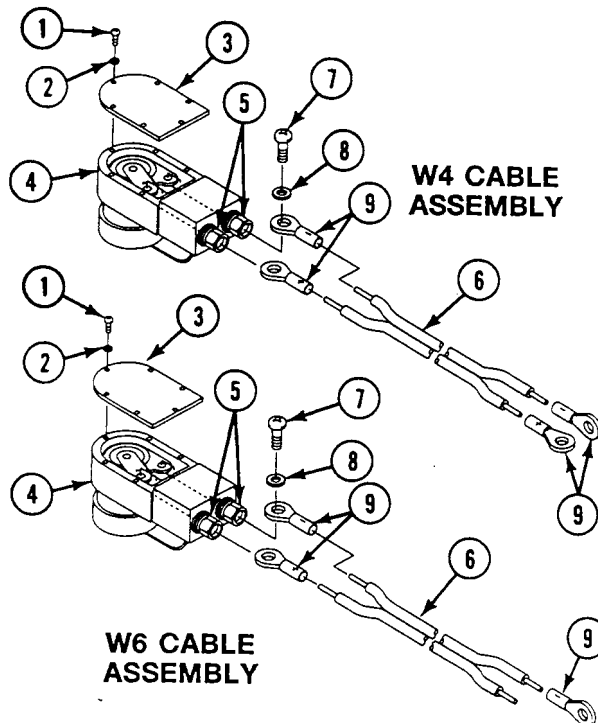
Position the terminals on the cables as shown.

1. Install terminals (9) on cables (6) (WP 0382 00).
2. Strip 1 inch to 1½ inches (2.54 cm to 3.81 cm) of insulation from one end of positive cable of assembly W6.

NOTE

Observe cable polarity when securing cables to connectors. The terminal on the positive (+) (longer) cable connects to the center post of connector on the W4 and the W6 cable assembly.

3. Insert each cable (6) into adapter (5) on connector (4). Secure to connector with two screws (7) and washers (8). Tighten two adapters (5).
4. Secure cover (3) on connector (4) with six screws (1) and washers (2).



END OF TASK

REPLACE AC POWER EXTENSION CABLE (W7) (M1068A3 ONLY)

0842 00

THIS WORK PACKAGE COVERS:

Removal (page 0842 00-1).
 Installation (page 0842 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Strap (6)

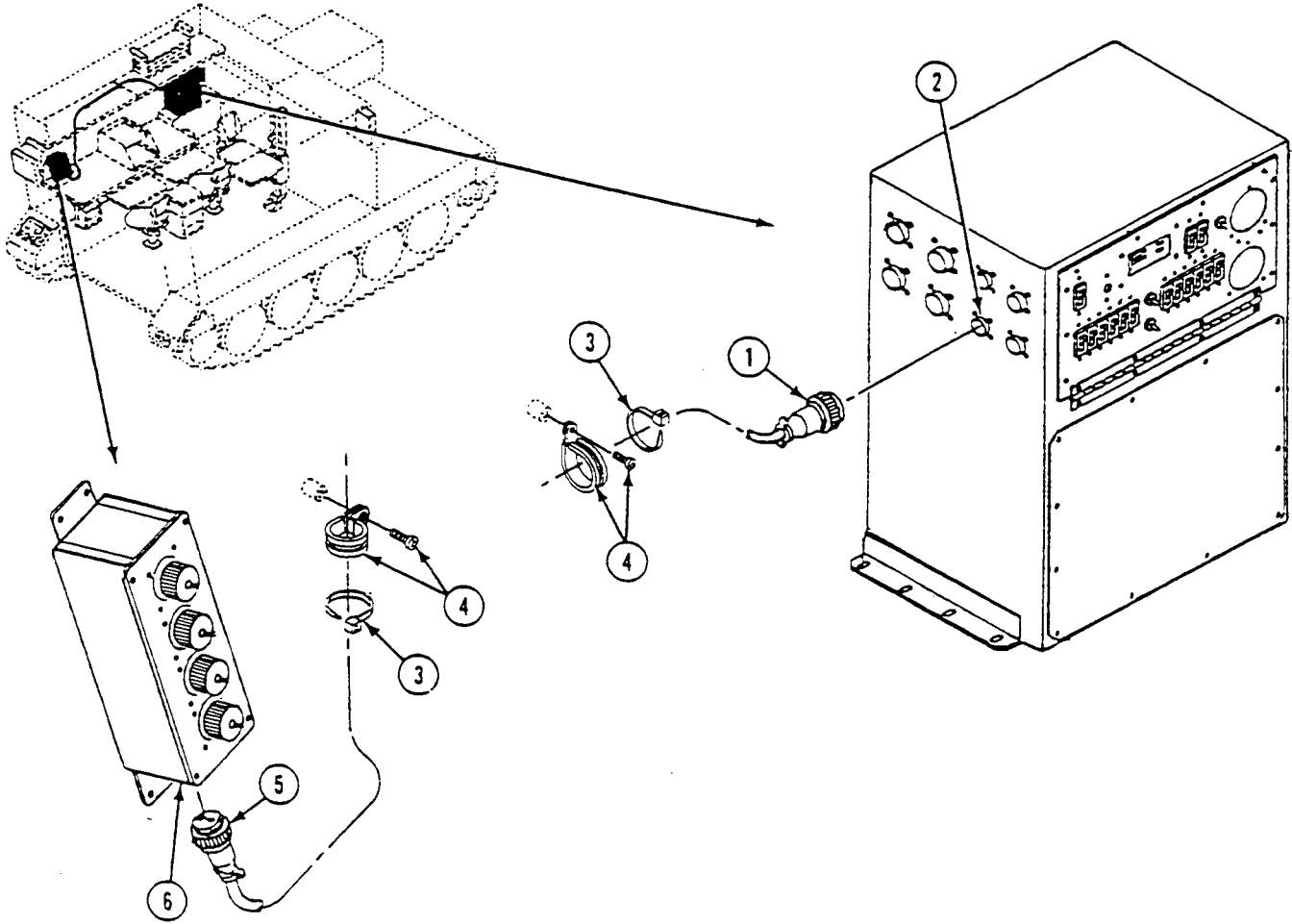
Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

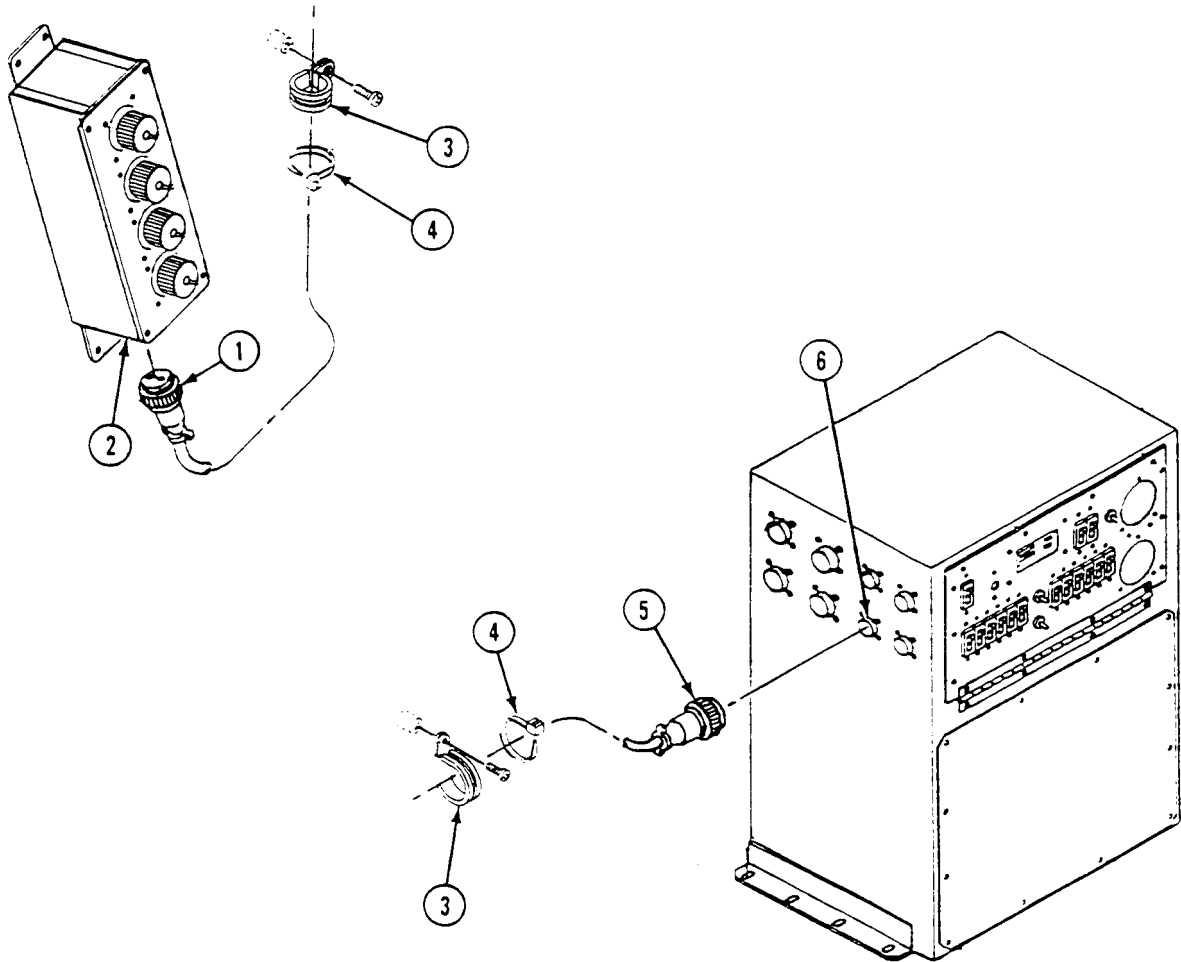
1. Disconnect cable W7 plug P10 (1) from power control box A1 jack J30 (2).

2. Remove and discard six plastic straps (3).
3. Remove four screws and loop clamps (4).
4. Disconnect cable W7 plug P1 (5) from roadside AC power extension box A6 jack J1 (6).
5. Remove cable from carrier.



INSTALLATION

1. Install new cable in carrier.
2. Connect cable W7 plug P1 (1) to roadside AC power extension box A6 jack J1 (2).
3. Install cable through four loop clamps (3) and secure with four screws.
4. Attach six new plastic straps (4).
5. Connect cable W7 plug P10 (5) to power control box A1 jack J30 (6).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH to ON (see your -10). Check that electrical system works properly.
3. Turn MASTER SWITCH to OFF (see your -10).

END OF TASK

REPLACE AC POWER EXTENSION CABLE (W8) (M1068A3 ONLY)

0843 00

THIS WORK PACKAGE COVERS:

Removal (page 0843 00-1).
 Installation (page 0843 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Strap (16)

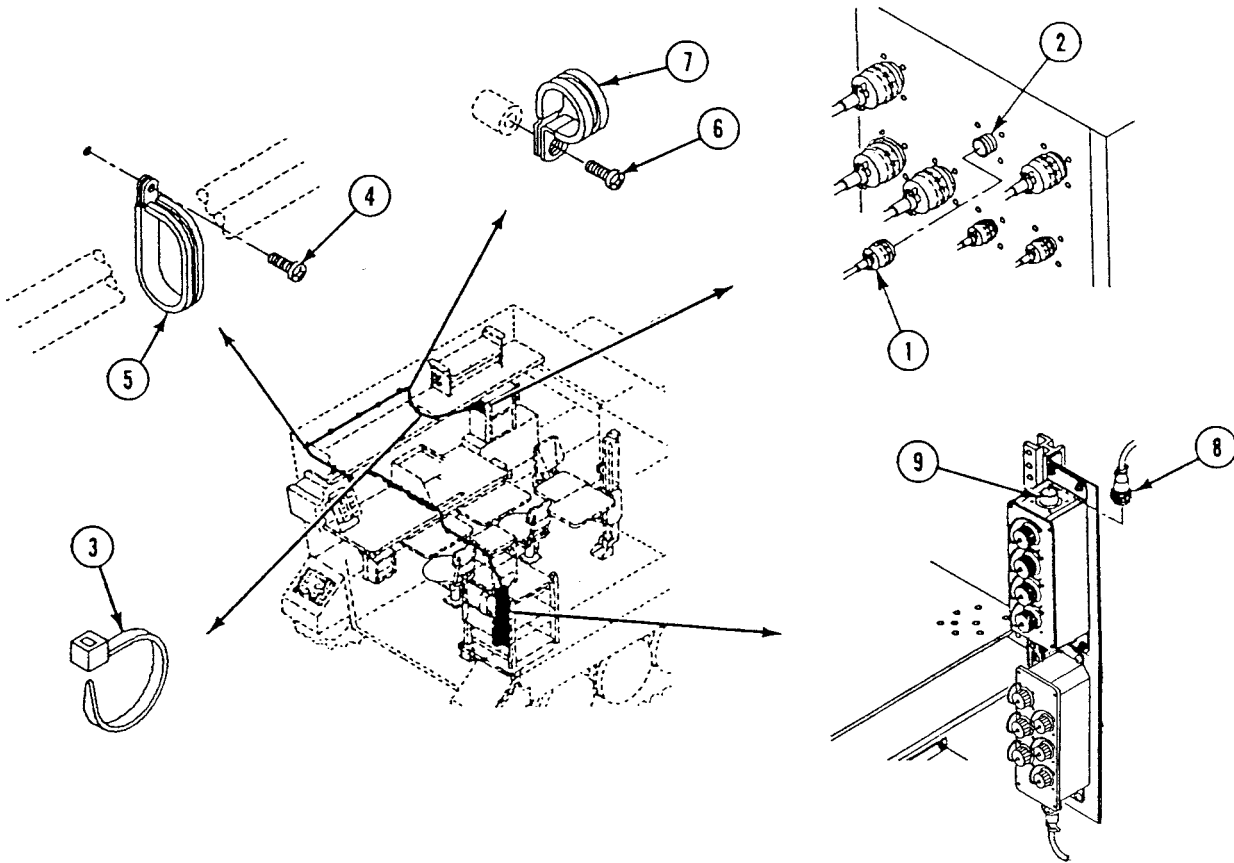
Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

1. Disconnect cable W8 plug P11 (1) from power control box A1 jack J31 (2).
2. Remove and discard 16 plastic straps (3).
3. Remove five screws (4) and loop clamps (5).
4. Remove screw (6) and loop clamp (7).
5. Disconnect cable W8 plug P1 (8) from curbside power box A7 jack J1 (9).

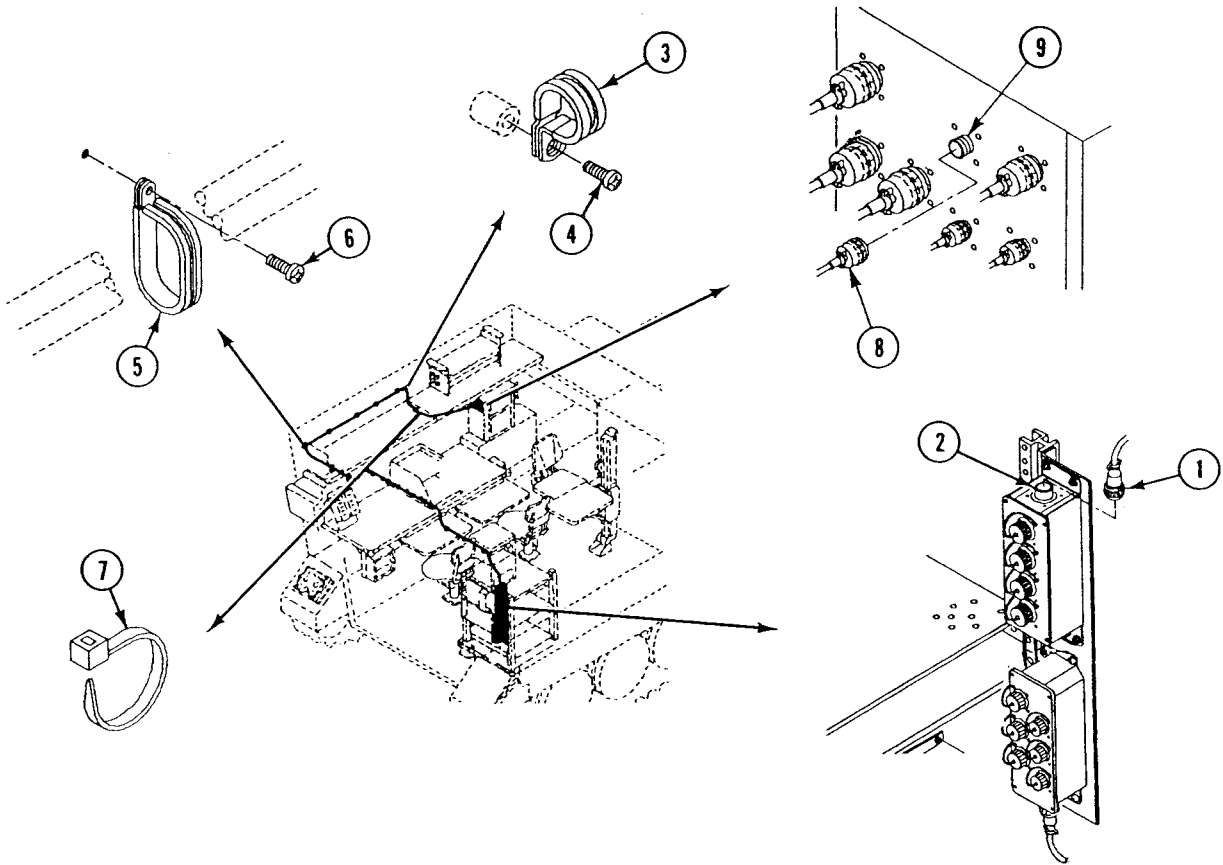
6. Remove cable W8 from carrier.



INSTALLATION

1. Install cable W8 in carrier.
2. Connect cable W8 plug P1 (1) to curbside power box A7 jack J1 (2).
3. Install harness W8, clamp (3), and screw (4) to hull wall.
4. Install harness W8 with five loop clamps (5) and screws (6).
5. Attach 16 new plastic straps (7).

6. Connect cable W8 plug P11 (8) to power control box A1 jack J31 (9).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH ON (see your -10). Check that electrical system works properly.
3. Turn MASTER SWITCH OFF (see your -10).

END OF TASK

REPLACE DC POWER EXTENSION CABLE (W10) (M1068A3 ONLY)

0844 00

THIS WORK PACKAGE COVERS:

Removal (page 0844 00-1).
 Installation (page 0844 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Strap (6)

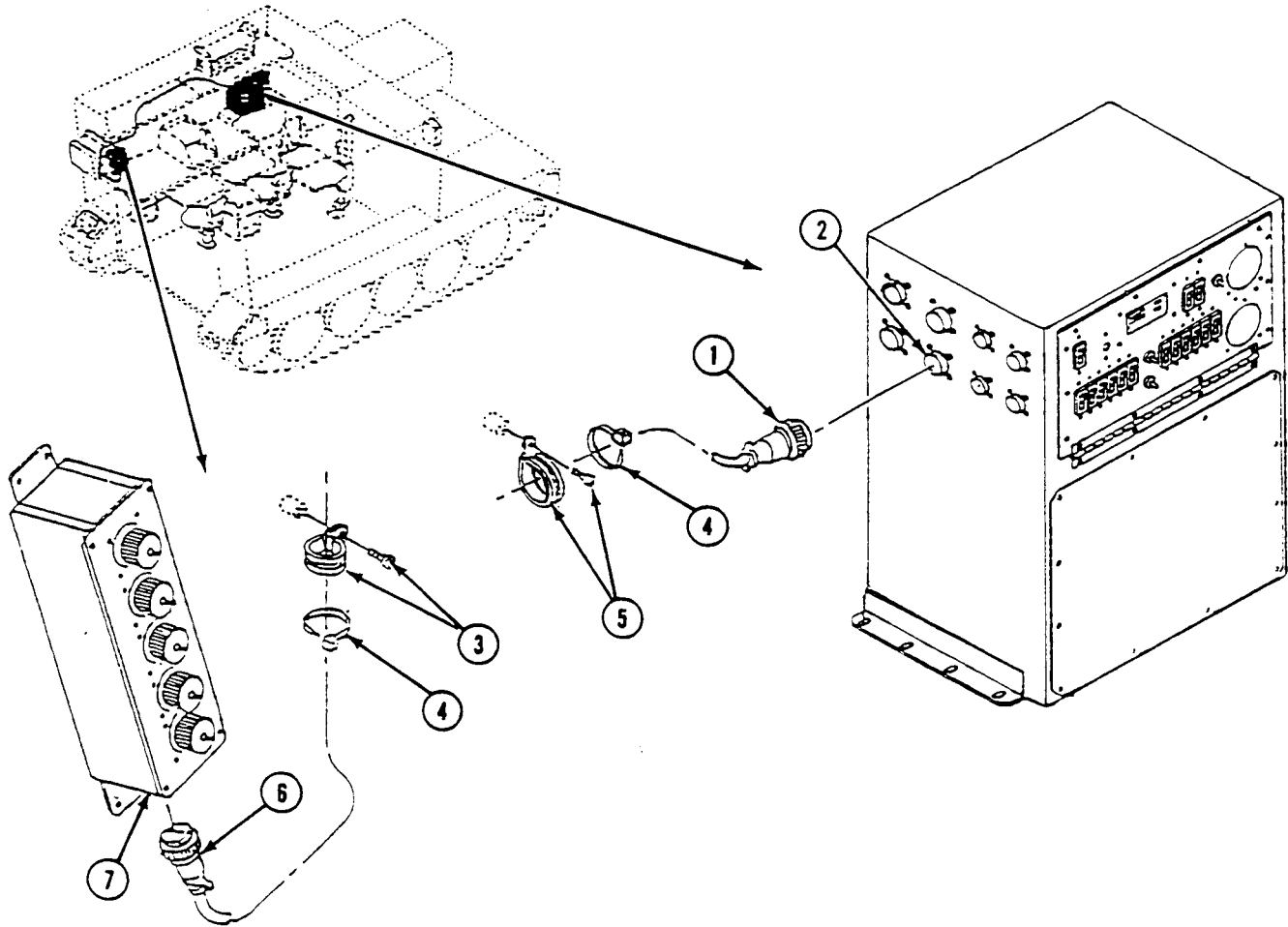
Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

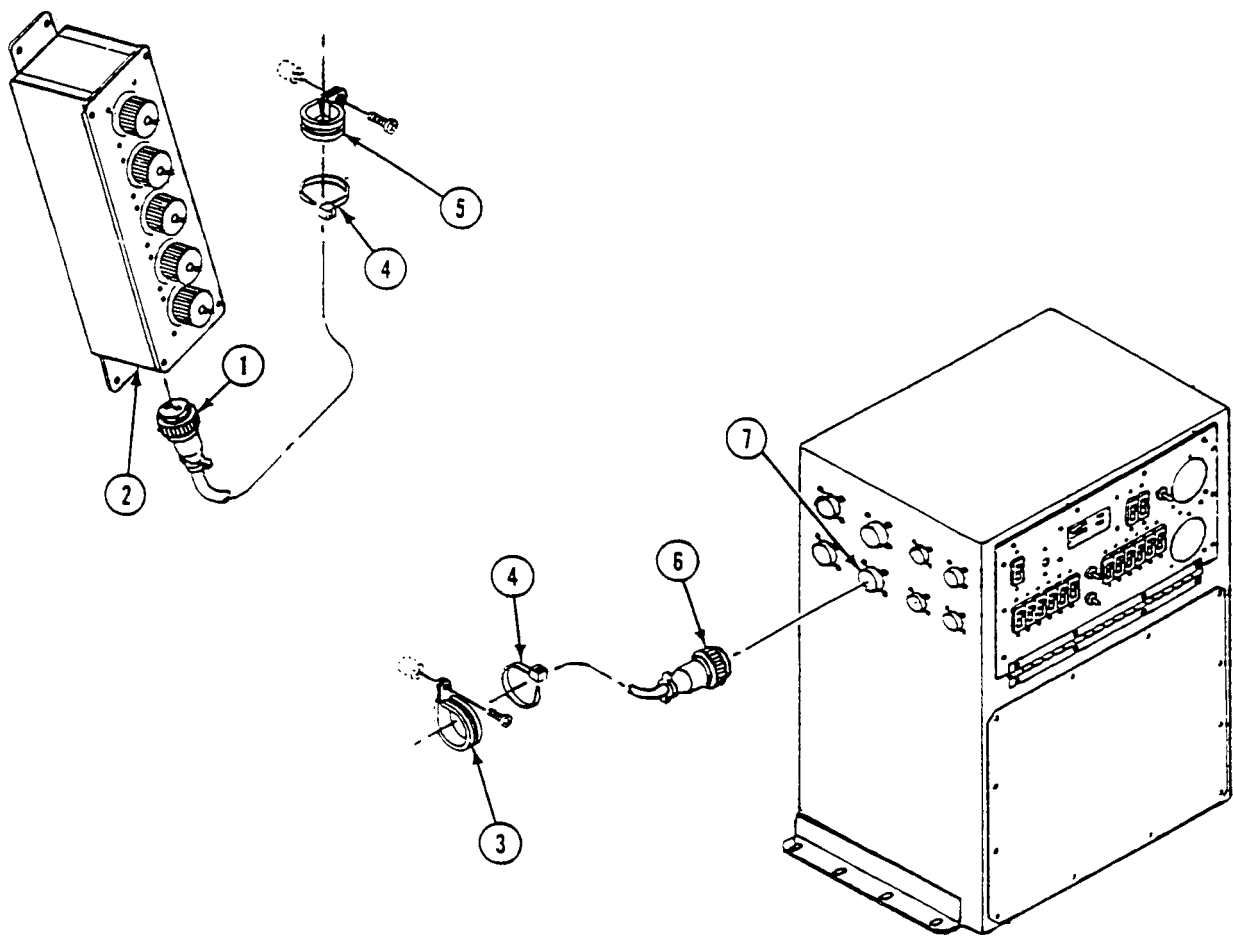
1. Disconnect cable W10 plug P14 (1) from power control box A1 jack J34 (2).

2. Remove screw and loop clamp (3).
3. Remove and discard six straps (4).
4. Remove three screws and loop clamps (5).
5. Disconnect cable W10 plug P1 (6) from DC power extension box A9 jack J1 (7).
6. Remove cable W10 from carrier.



INSTALLATION

1. Install cable W10 in carrier.
2. Connect cable W10 plug P1 (1) to DC power extension box A9 jack J1 (2).
3. Route cable through three loop clamps (3) and attach to hull wall with three screws.
4. Attach six new straps (4) to secure slack in cable W10.
5. Attach loop clamp (5) to cable W10 and secure to hull wall with screw.
6. Connect cable W10 plug P14 (6) to power control box A1 jack J34 (7).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH ON (see your -10). Check that electrical system works properly.
3. Turn MASTER SWITCH OFF (see your -10).

END OF TASK

REPLACE AC LIGHT CABLE (W11) (M1068A3 ONLY)

0845 00

THIS WORK PACKAGE COVERS:

Removal (page 0845 00-2).
 Installation (page 0845 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected TM 11-7010-256-12&P
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

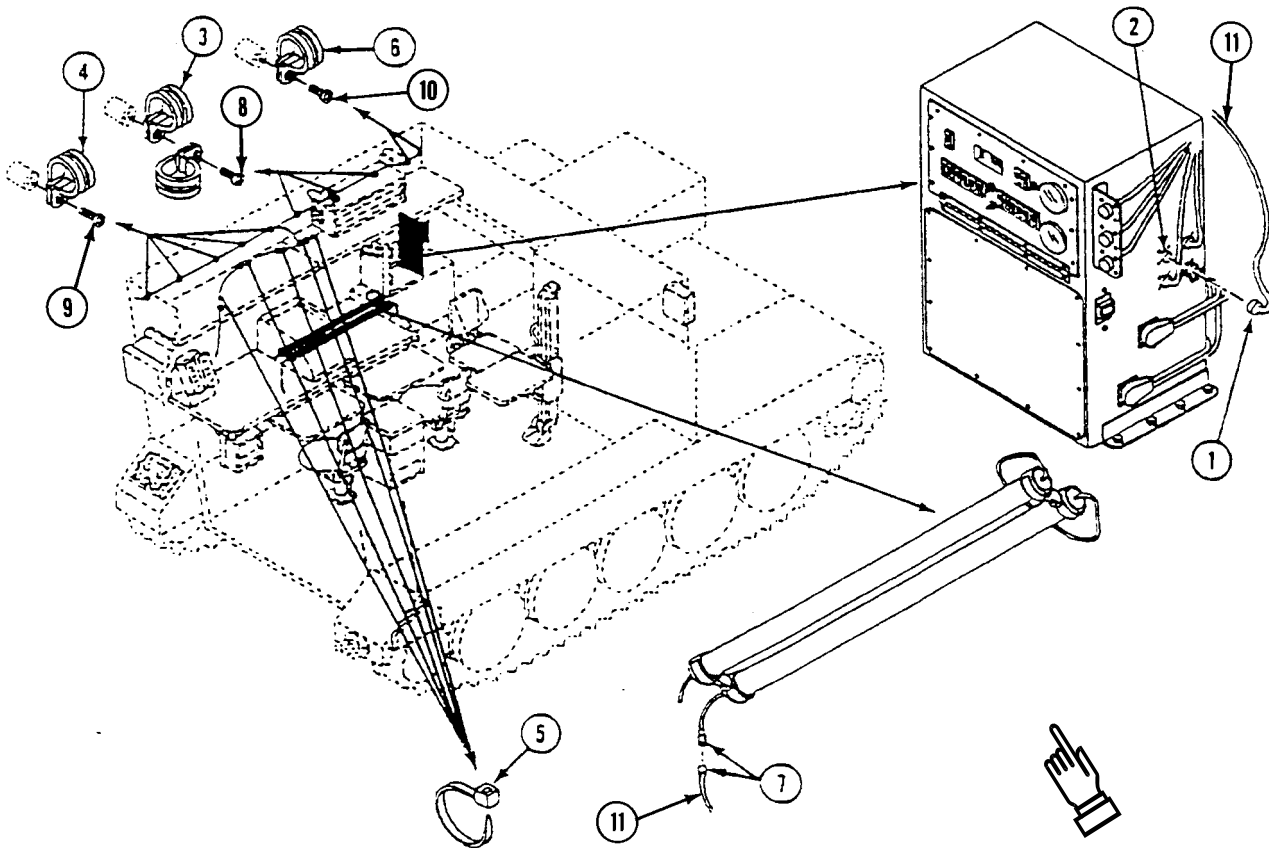
Strap (5)

Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

1. Disconnect cable W11 plug P17 (1) from power control box A1 jack J37 (2).
2. Remove three screws (8) and loop clamps (3).
3. Remove five screws (9) and loop clamps (4).
4. Remove and discard five straps (5).
5. Remove two screws (10) and loop clamps (6).
6. Disconnect cable W11 plug P2 from AC light plug P1 (7).
7. Remove cable W11 (11) from carrier.

**INSTALLATION**

1. Install cable W11 (8) in carrier.
2. Connect cable W11 plug P2 to AC light plug P1 (1).
3. Install two loop clamps (2) and secure to hull with two screws (9).
4. Secure cable with five new straps (3).
5. Install five loop clamps (4) and secure to hull with five screws (10).
6. Install three loop clamps (5) and secure to hull with three screws (11).
7. Connect cable W11 plug P17 (6) to power control box A1 jack J37 (7).

FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH ON (see your -10). Check that electrical system works properly.
3. Turn MASTER SWITCH OFF (see your -10).

END OF TASK

REPLACE GROUND STRAP (W12) (M1068A3 ONLY)

0846 00

THIS WORK PACKAGE COVERS:

Removal (page 0846 00-1).
 Installation (page 0846 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11 7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped/shutdown (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

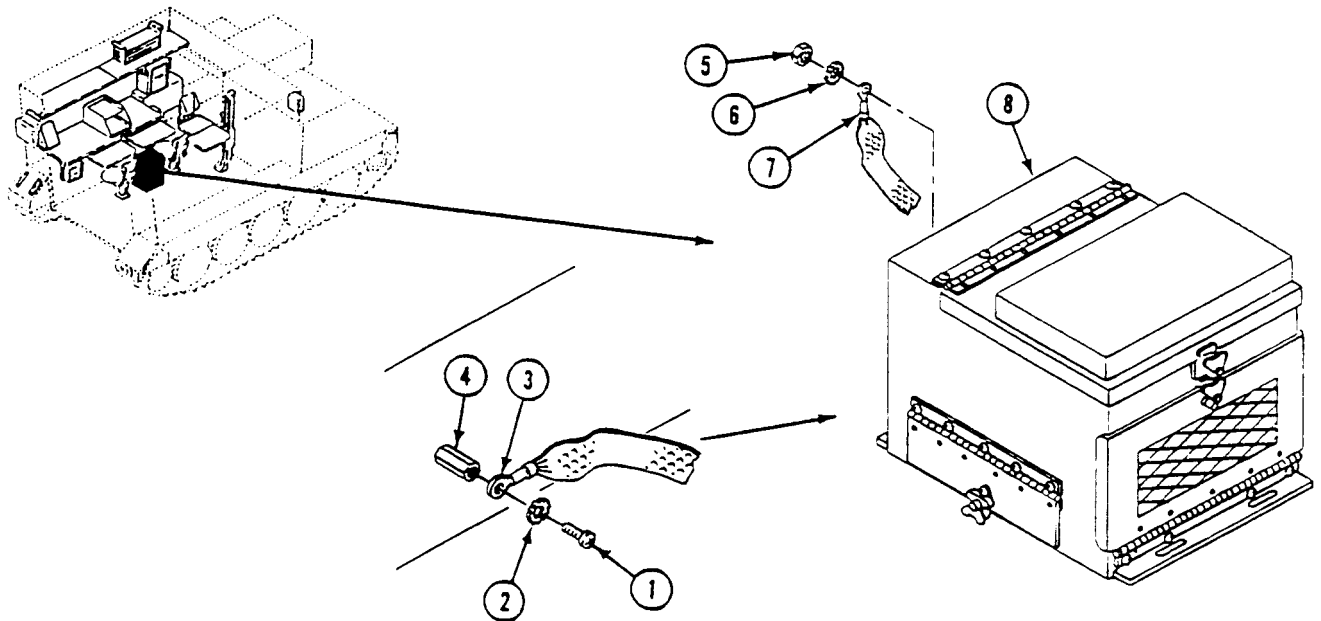
Lockwasher
 Lockwasher

Personnel Required

Power-Generation Equipment Repairer 52D10

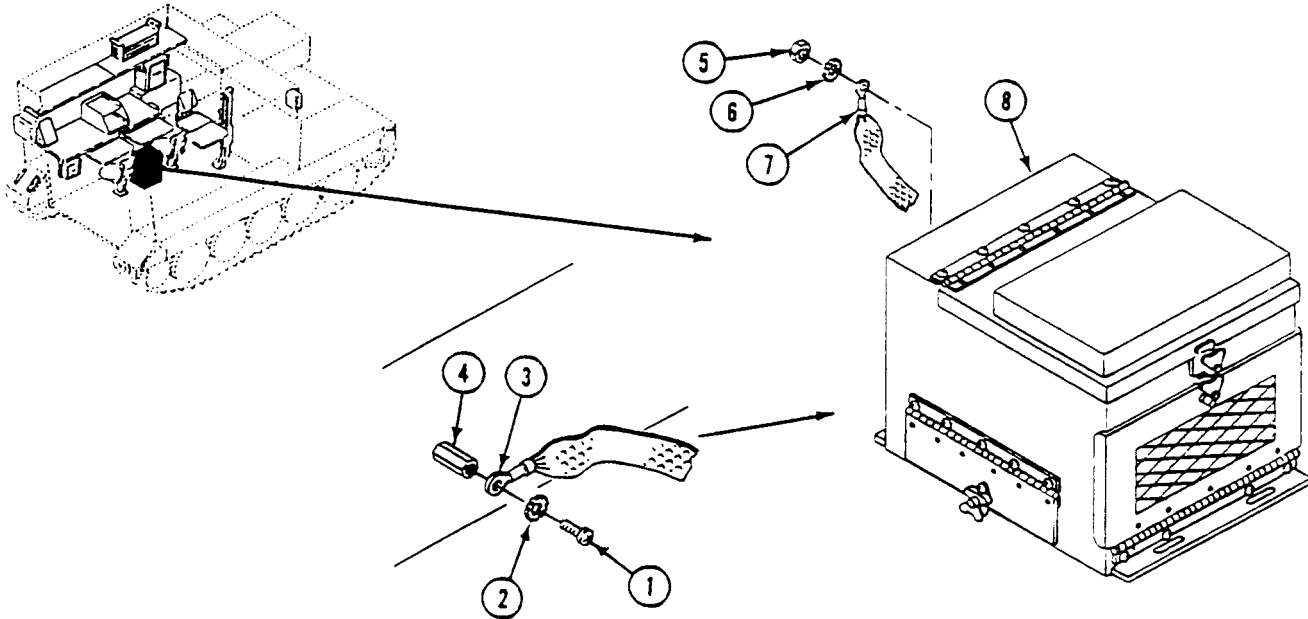
REMOVAL

1. Remove screw (1), lockwasher (2), and ground strap W12 terminal (3) from ground lug G1 (4). Discard lockwasher.
2. Remove nut (5), lockwasher (6), and ground strap (7) from ATCCS UPS box (8). Discard lockwasher.



INSTALLATION

1. Install ground strap (7), new lockwasher (6), and nut (5) on ATCCS UPS box (8).
2. Install ground strap W12 terminal (3), new lockwasher (2), and screw (1) on ground lug G1 (4).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH ON (see your -10). Check that electrical system works properly.
3. Turn MASTER SWITCH OFF (see your -10).

END OF TASK

REPLACE CASCADE REMOTE HARNESS (M1068A3 ONLY)

0847 00

THIS WORK PACKAGE COVERS:

Removal (page 0847 00-1).
 Installation (page 0847 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

References

TM 9-2350-277-24P

Materials/Parts

Primer (WP 0928 00, Item 45)
 Sealing Compound (WP 0928 00, Item 48)
 Lockwasher (10)
 Lockwasher (10)
 Locknut (4)

Equipment Condition

Engine stopped (TM 9-2350-277-10)
 Carrier blocked (TM 9-2350-277-10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

REMOVAL

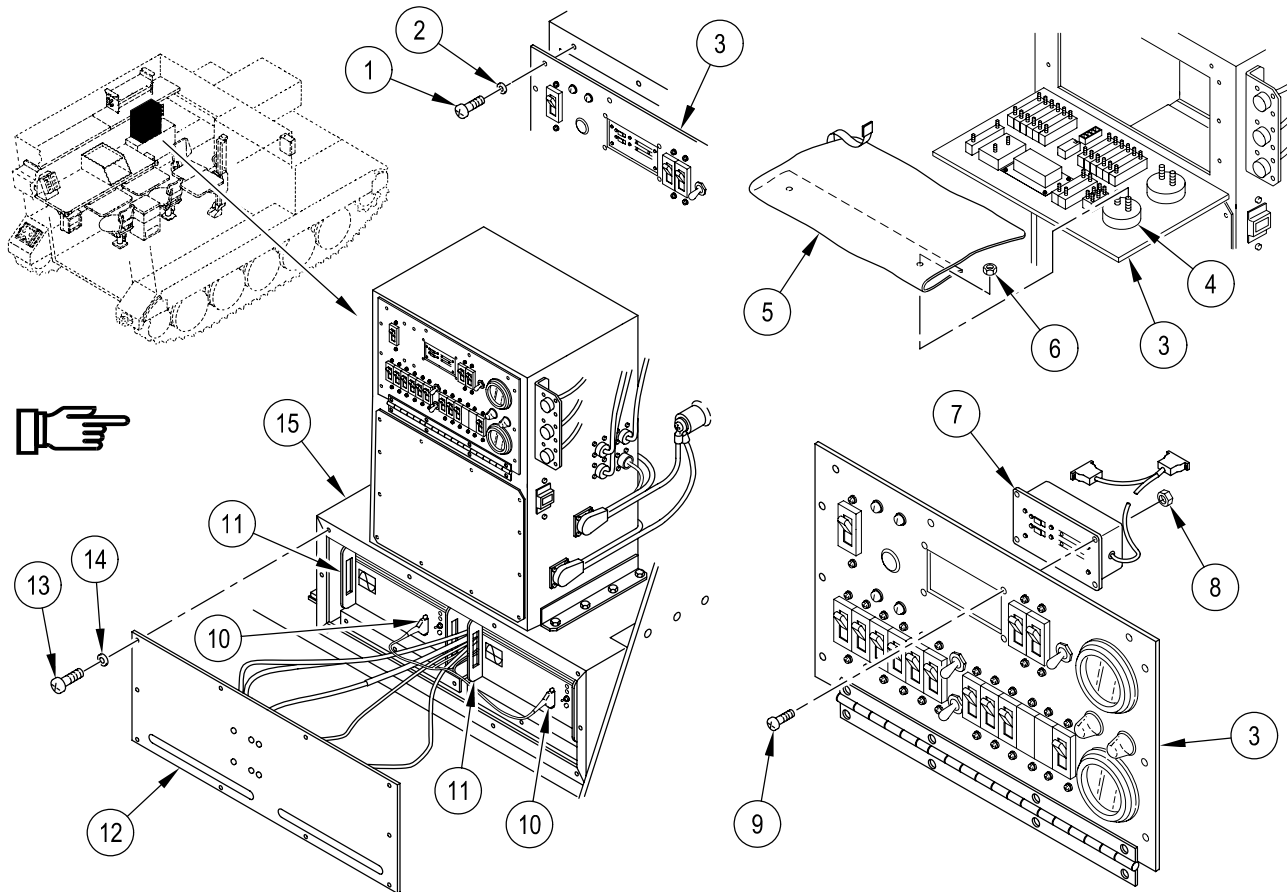
NOTE

The cascade remote harness has a 25-pin connector for the older inverters and 15-pin on new true-sine wave inverters. If the old quasi-sine wave inverters are being replaced with new true-sine wave inverters, replace the old 25-pin cascade harness with a new 15-pin cascade harness. If you have an OUTBACK inverter, see WP 0847 01 to remove remote cable assembly.

REPLACE CASCADE REMOTE HARNESS (M1068A3 ONLY) — Continued

0847 00

1. Remove access cover (12) on inverter housing A2 (15) by removing 10 screws (13) and lockwashers (14). Discard lockwashers.
2. Remove 10 screws (1), and lockwashers (2), from faceplate (3). Lower faceplate (3) to gain access to RP1 harness (7). Discard lockwashers.
3. Remove nut (6) and safety cover (5) from terminal 2 on meter M1 (4).
4. Loosen captive screws on connectors and disconnect RP1 harness connectors (10) from inverters (11).
5. Remove four locknuts (8), screws (9), and RP1 remote harness (7) from faceplate (3). Remove harness. Discard locknuts.

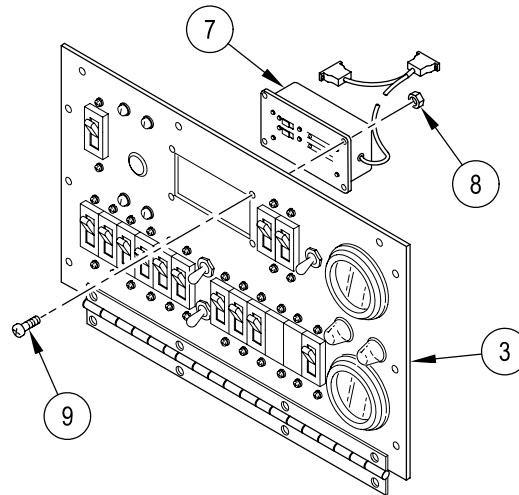


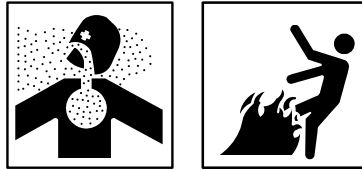
INSTALLATION

NOTE

When replacing the cascade remote harness RP1 (W15), verify the type inverter you have (15-pin or 25-pin) and check TM 9-2350-277-24P to identify which harness to order.

1. Install RP1 harness (7), four screws (9), and new locknuts (8) on faceplate (3). Route RP1 harness leads down through power enclosure and behind inverter housing A2 to front face of inverters. Avoid interfering with other components in power enclosure.

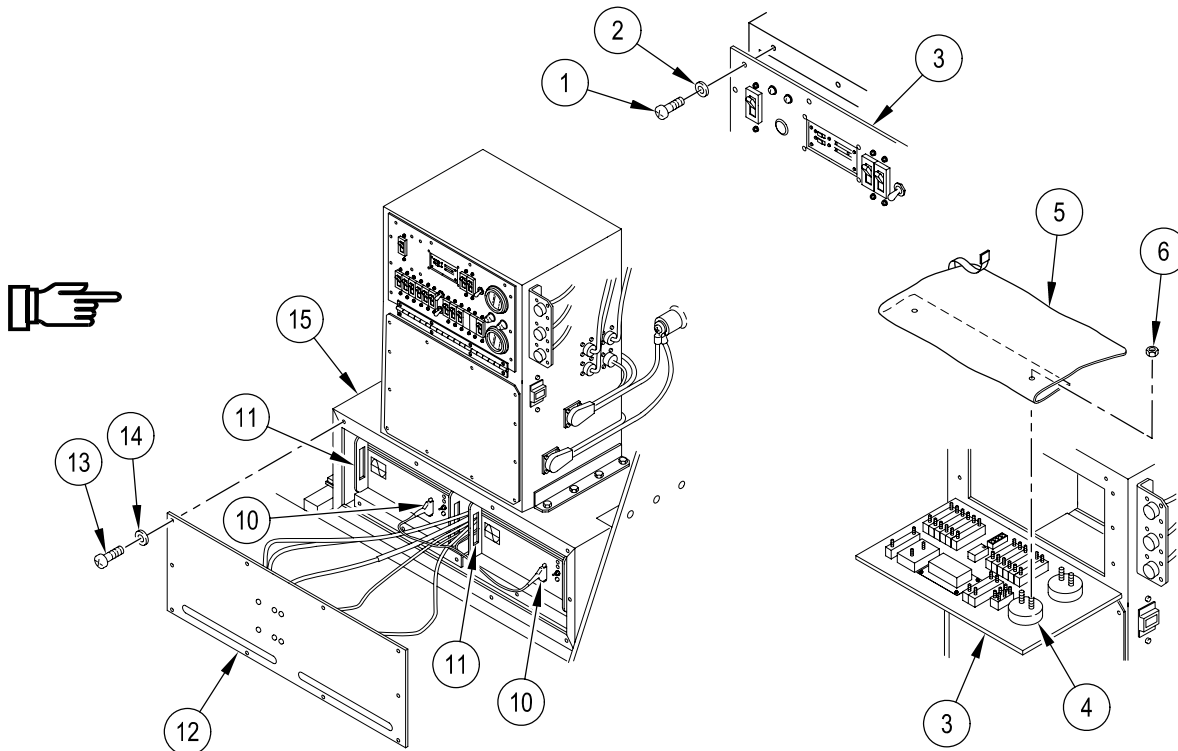


WARNING

Adhesive, primer, sealant compounds, and isopropyl alcohol are toxic and flammable. These compounds are toxic to eyes, skin, and respiratory tract. Continued exposure can make you dizzy and irritate your eyes and throat.

Always use in well ventilated areas, away from heat, sparks, and flames. Do not breathe fumes. Do not allow into contact with skin and eyes. Use goggles or face shield and protective gloves.

2. Apply primer and sealing compound to threads of terminal 2 of meter M1 (4).
3. Install safety cover (5) and nut (6) on terminal 2 of meter M1 (4).
4. Lift faceplate (3) in place and install 10 new lockwashers (2) and screws (1).
5. Connect red W15 cable connector (10) to inverter IN1 (11) and black W15 cable connector (10) to inverter IN2 (11).
6. Install access cover (12) on front of inverter housing A2 (15) with 10 new lockwashers (14) and screws (13).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE OUTBACK REMOTE CABLE ASSEMBLY (M1068A3 ONLY)

0847 01

THIS WORK PACKAGE COVERS:

Removal (page 0847 01-1).
 Installation (page 0847 01-8).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10
 Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)
 Carrier blocked (TM 9-2350-277-10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Lockwasher (10)
 Lockwasher (10)
 Lockwasher (4)

REMOVAL

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel do not observe safety precautions.

NEVER work on equipment unless at least one other person is nearby, familiar with the operation and hazards of the equipment, and is familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

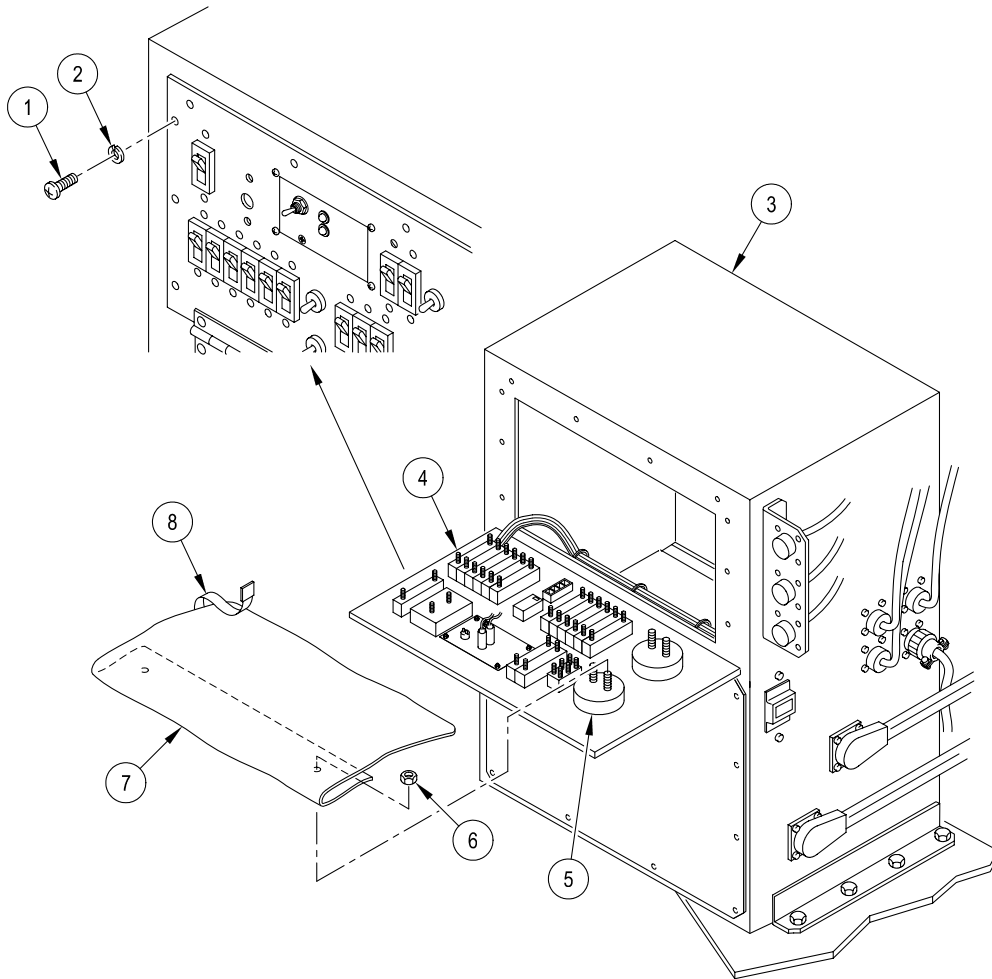
SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

REPLACE OUTBACK REMOTE CABLE ASSEMBLY (M1068A3 ONLY) — Continued

0847 01

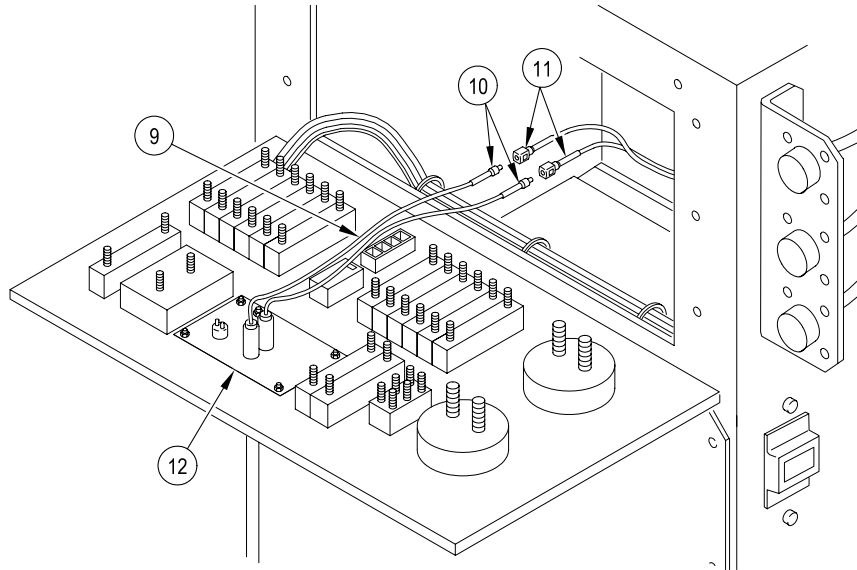
1. Remove ten screws (1), lockwashers (2), and faceplate assembly (4) from power enclosure (3).
2. Remove nut (6) and safety cover (7) from terminal 2 on meter M1 (5). Unwrap strap (8).



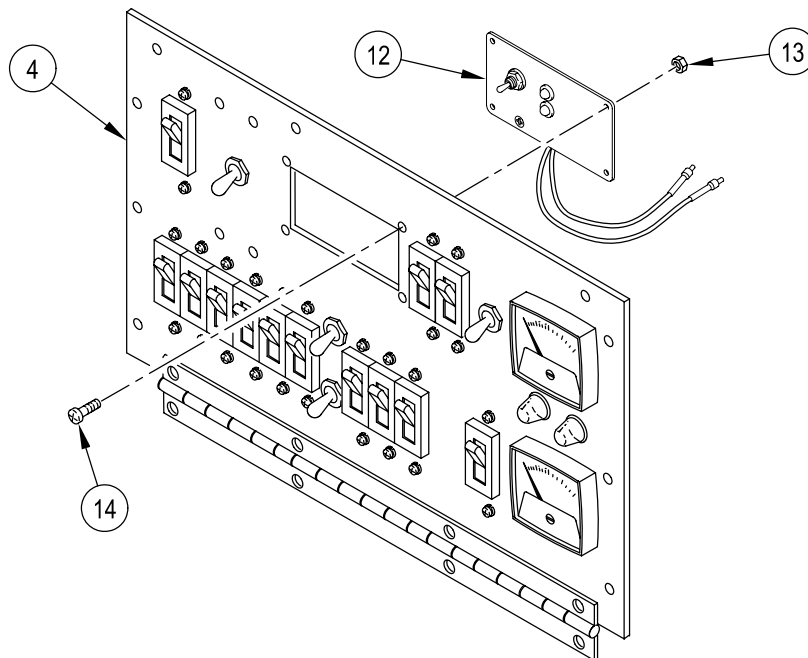
REPLACE OUTBACK REMOTE CABLE ASSEMBLY (M1068A3 ONLY) — Continued

0847 01

3. Disconnect the two leads (10) on the remote cable assembly (9) and separate remote cable (11) from remote cable control panel (12).



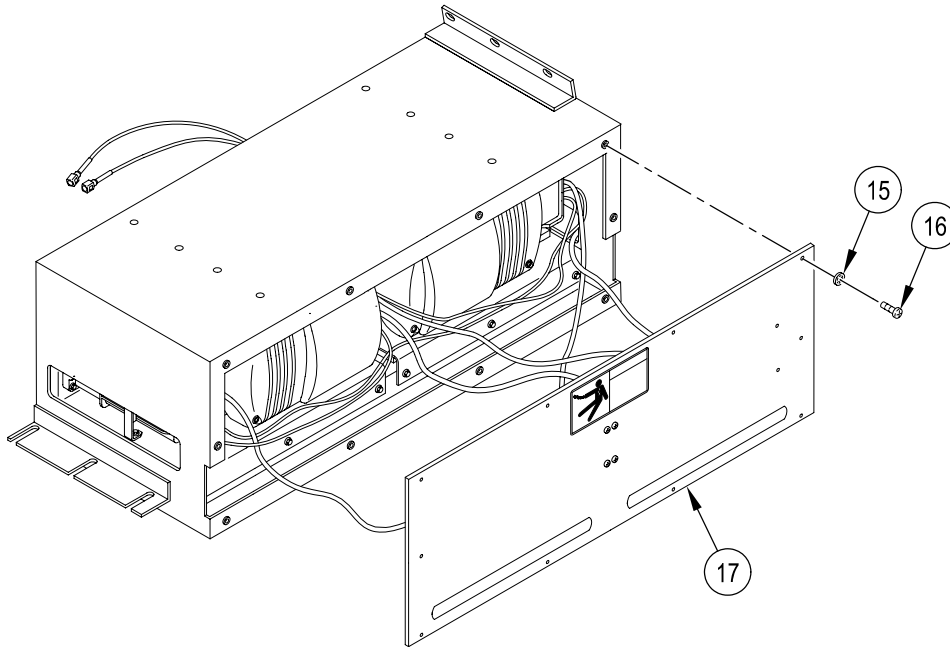
4. Remove four locknuts (13), screws (14), and remote cable control panel (12) from power enclosure faceplate assembly (4). Discard locknuts.



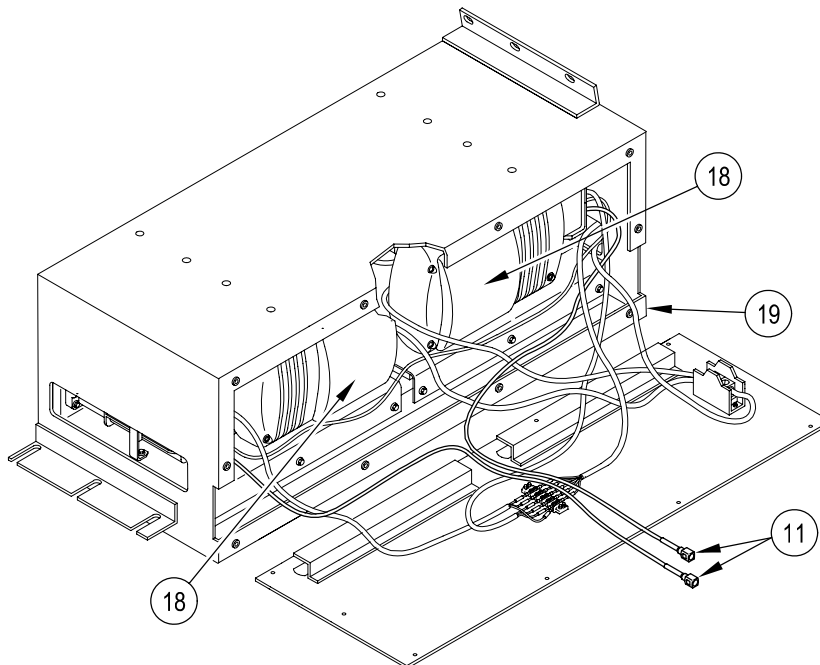
REPLACE OUTBACK REMOTE CABLE ASSEMBLY (M1068A3 ONLY) — Continued

0847 01

- Remove ten screws (16) and lockwashers (15) from inverter housing cover (17). Lay inverter housing cover down. Discard lockwashers.



- Pull two ends of remote cable (11) thru opening in back of inverter housing (19), between the two inverters (18), and out the front of the inverter housing (19).



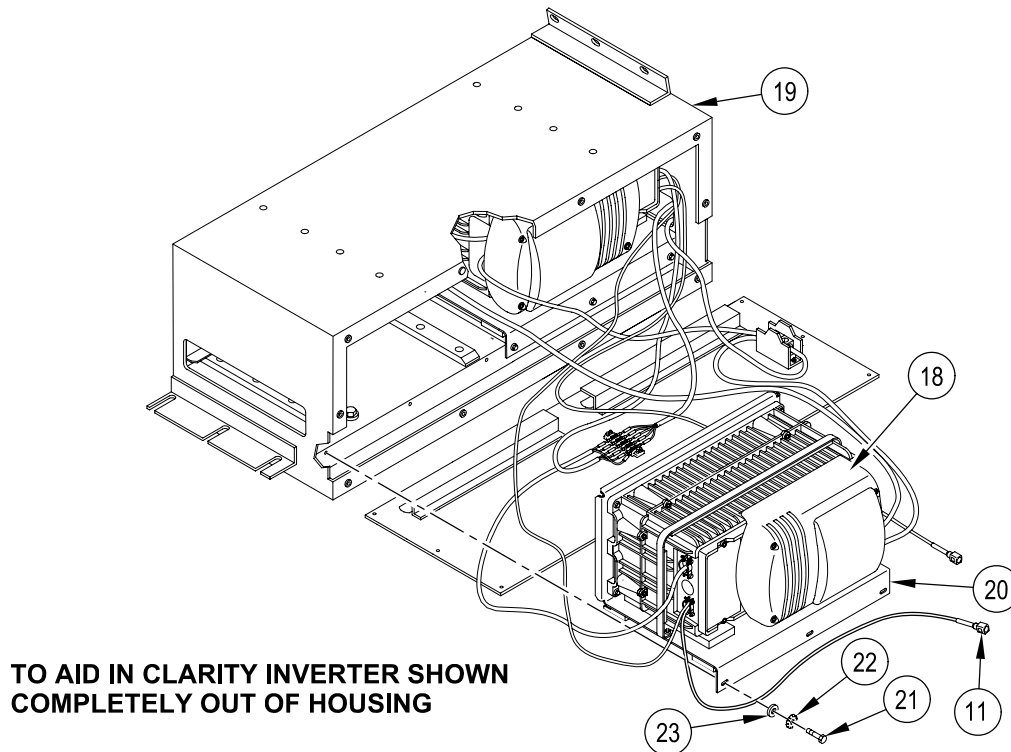
WARNING

Each Outback inverter assembly weighs 70 lbs (32kg) and may be awkward to handle. Use correct lifting procedures, indicated lifting devices, and/or assistance from other personnel to avoid injury. Failure to comply could result in injury to personnel and equipment damage.

NOTE

Both inverters are identical, however due to space constraints, one of the inverters must be mounted upside down.

7. Remove three cap screws (21), lockwashers (22), and flat washers (23) securing inverter (IN1) mount assembly (20) to the inverter housing (19). Discard lockwashers.
8. Slide inverter (IN1) mount assembly (20) out of housing (19) enough to access the remote cable (11) wiring connections on side of inverter (18). Have helper assist.

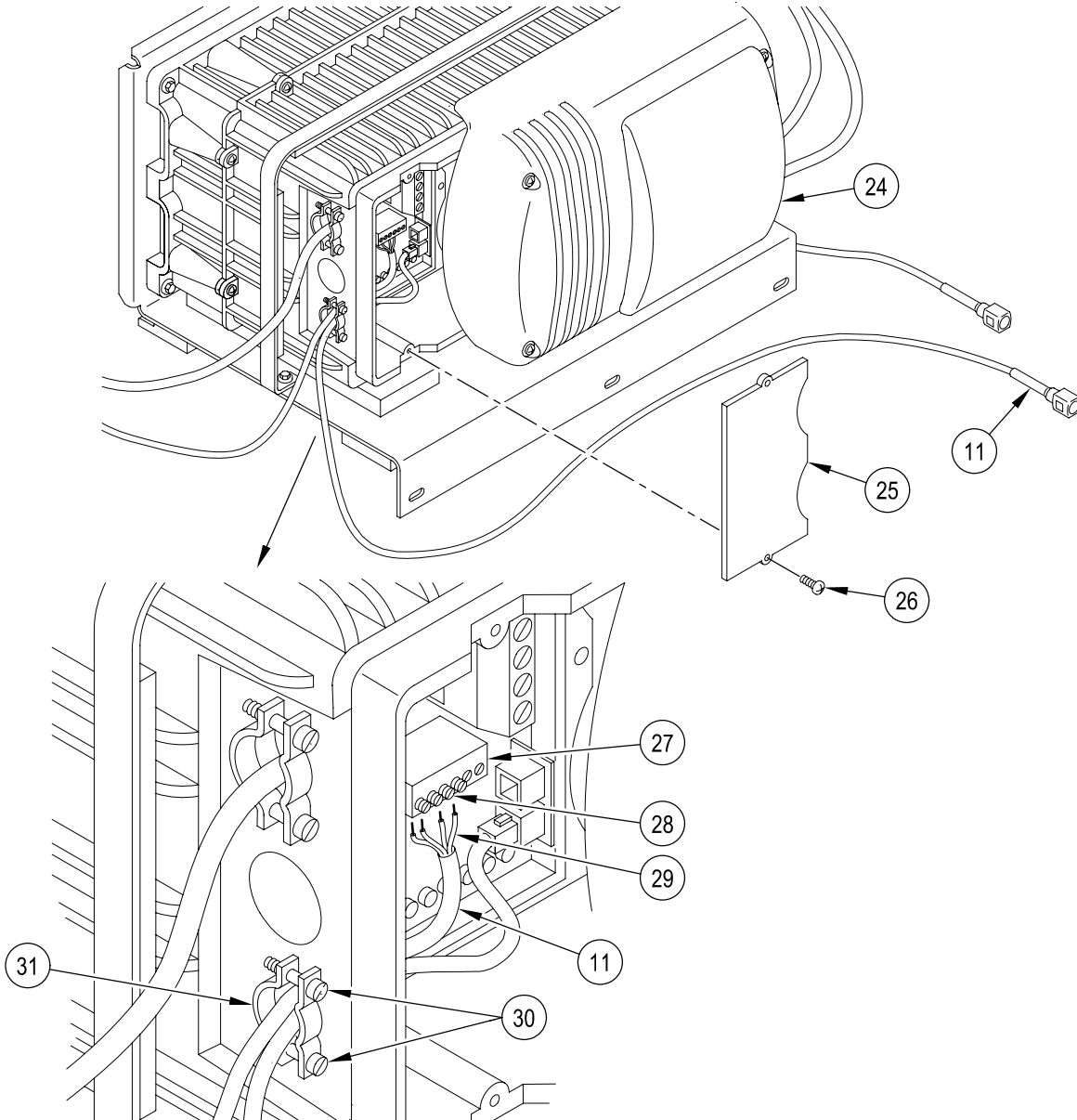


9. Remove two screws (26) and plastic cover (25) from inverter housing (24).
10. Loosen two screws (30) on cable clamp (31) on side of inverter housing (24) enough to free remote cable (11).

NOTE

Tag leads to aid in identification and installation.

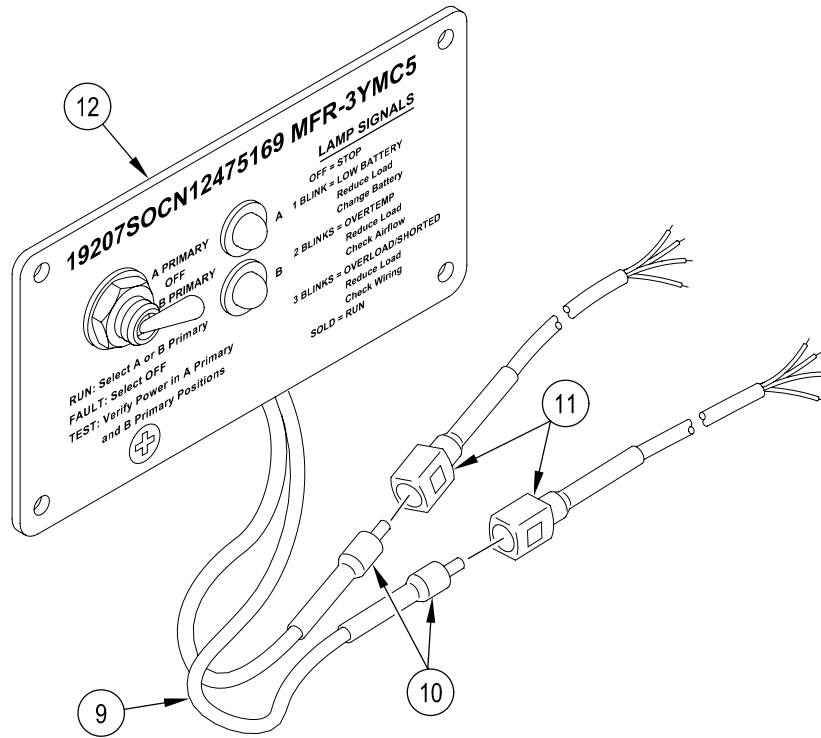
11. Loosen four terminal screws (28) and remove four leads (29) from inverter terminal block (27). Remove remote cable from inverter housing (24).



REPLACE OUTBACK REMOTE CABLE ASSEMBLY (M1068A3 ONLY) — Continued

0847 01

12. Repeat Steps 7 - 11 to disconnect remote cable connection from second inverter (IN2). Remove remote cable from inverter housing.
13. Connect two leads (10) on remote cable control panel (12) into two ends of remote cable (11) to reassemble remote control cable assembly (9).



INSTALLATION

WARNING

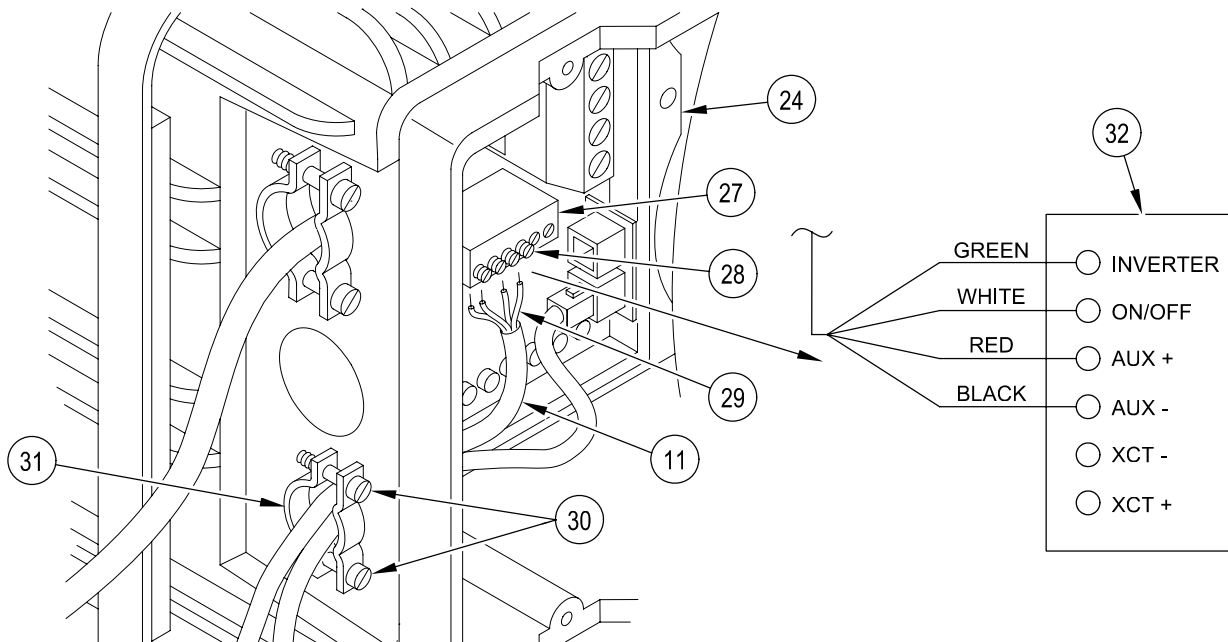


Each Outback inverter assembly weighs 70 lbs (32kg) and may be awkward to handle. Use correct lifting procedures, indicated lifting devices, and/or assistance from other personnel to avoid injury. Failure to comply could result in injury to personnel and equipment damage.

NOTE

Connect the cable leads to the inverter by positioning inverter half out of inverter housing or connect cable leads before placing inverter assembly into housing.

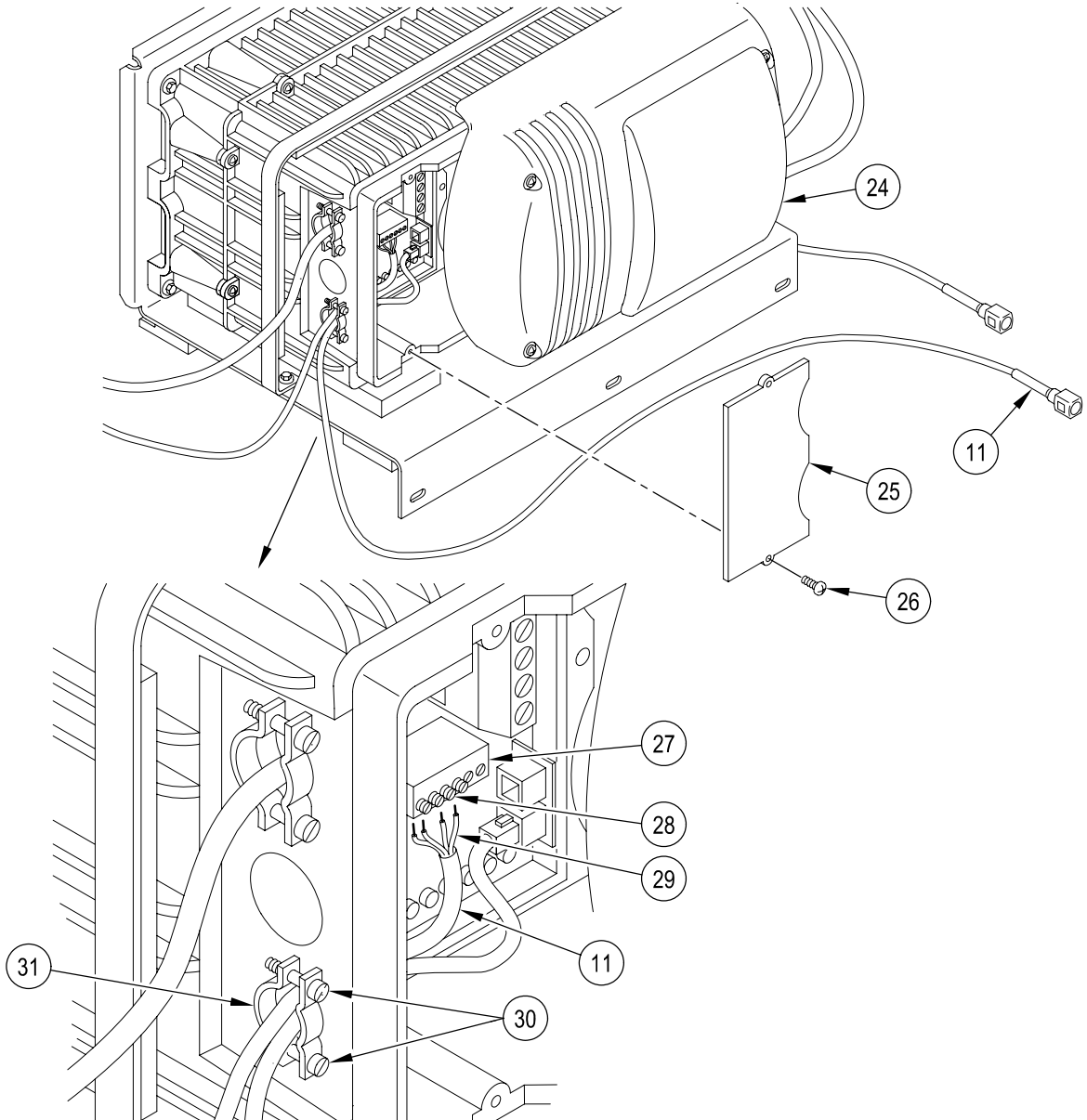
1. Loosen two screws (30) on cable clamp (31) located on side of inverter housing (24) enough to route cable (11) through cable clamp up to terminal block (27). Do not tighten cable clamp screws until leads are secured to terminal block.
2. Loosen four terminal block screws (28). Connect four leads (29) into inverter terminal block (27) and tighten terminal screws (28). Follow wiring diagram (32).



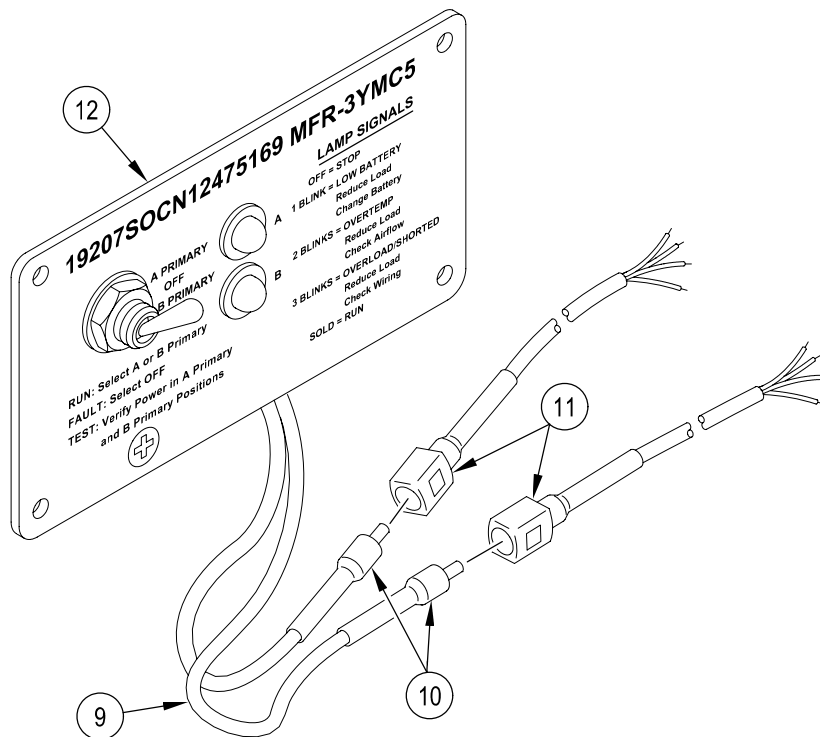
CAUTION

Do not over tighten cable clamp screws. Failure to comply may cause damage to wiring cable.

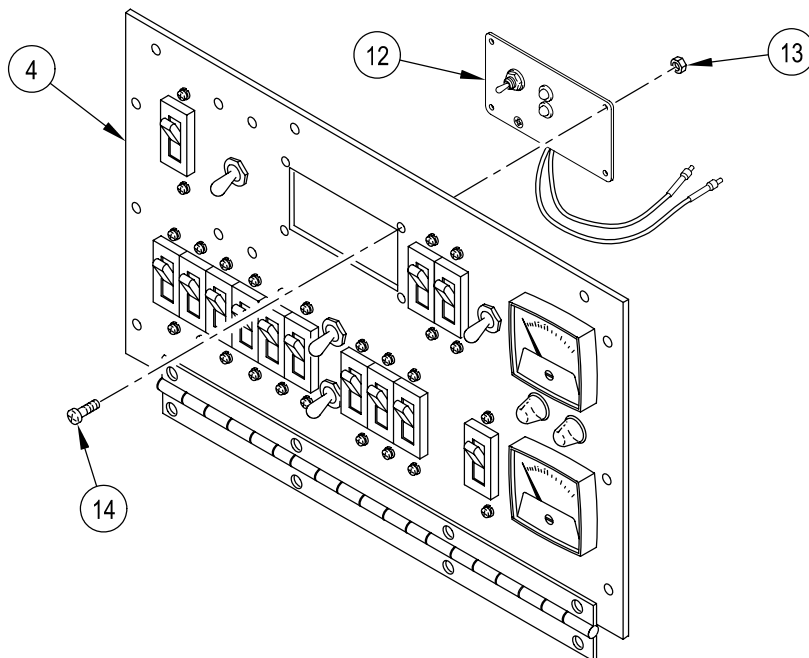
3. Tighten two screws (30) on cable clamp (31) and secure remote cable (11) to inverter (IN1) housing (24).
4. Install plastic cover (25) on inverter (IN1) housing (24) using two screws (26).
5. Repeat Steps 1 - 4 and connect remote cable to second inverter (IN2).



- Disconnect two disconnects (10) of the remote cable assembly (9) and separate remote cable (11) from remote cable control panel (12).



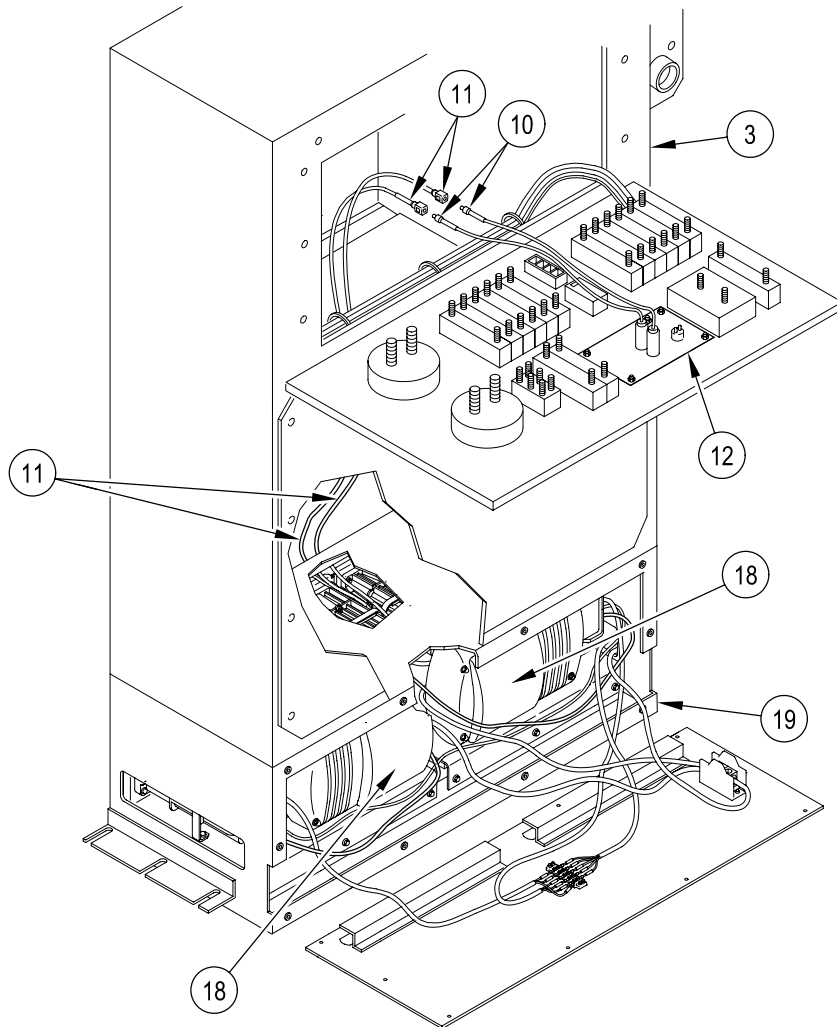
- Install remote cable control panel (12) on power enclosure faceplate assembly (4) using four screws (14) and new locknuts (13).



REPLACE OUTBACK REMOTE CABLE ASSEMBLY (M1068A3 ONLY) — Continued

0847 01

8. Route the two ends of the remote cable (11) between the two inverters (18) and through the opening in the back of the inverter housing (19), then up and into the rear of the power enclosure.
9. Pull two ends of remote cable (11) through power enclosure (3) and connect to the two disconnects (10) on the remote cable control panel (12).



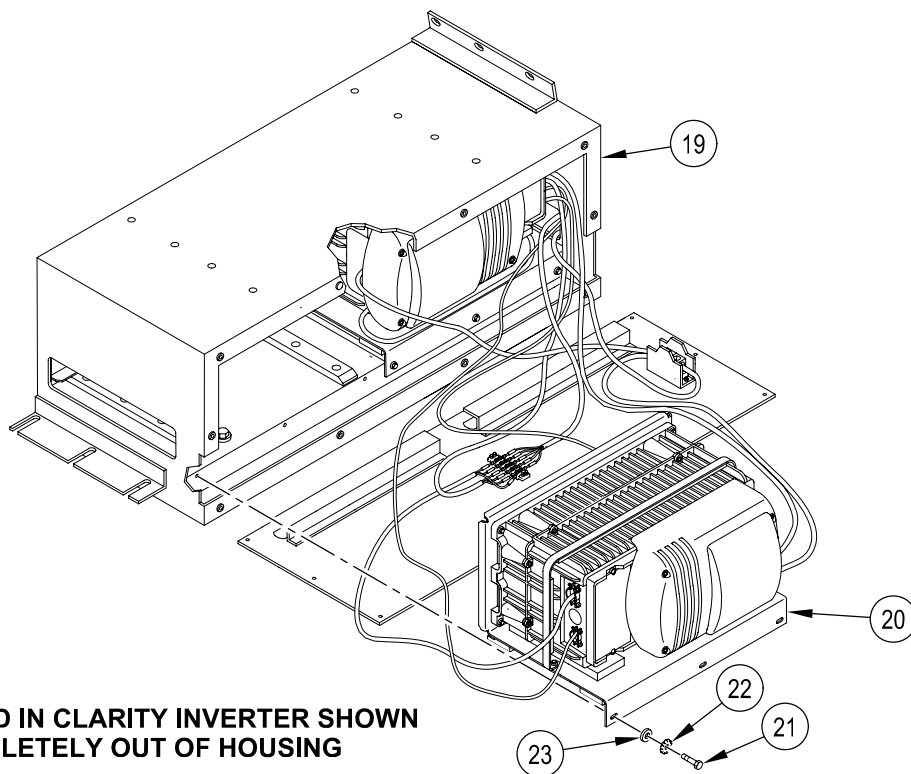
WARNING

Each Outback inverter assembly weighs 70 lbs (32kg) and may be awkward to handle. Use correct lifting procedures, indicated lifting devices, and/or assistance from other personnel to avoid injury. Failure to comply could result in injury to personnel and equipment damage.

NOTE

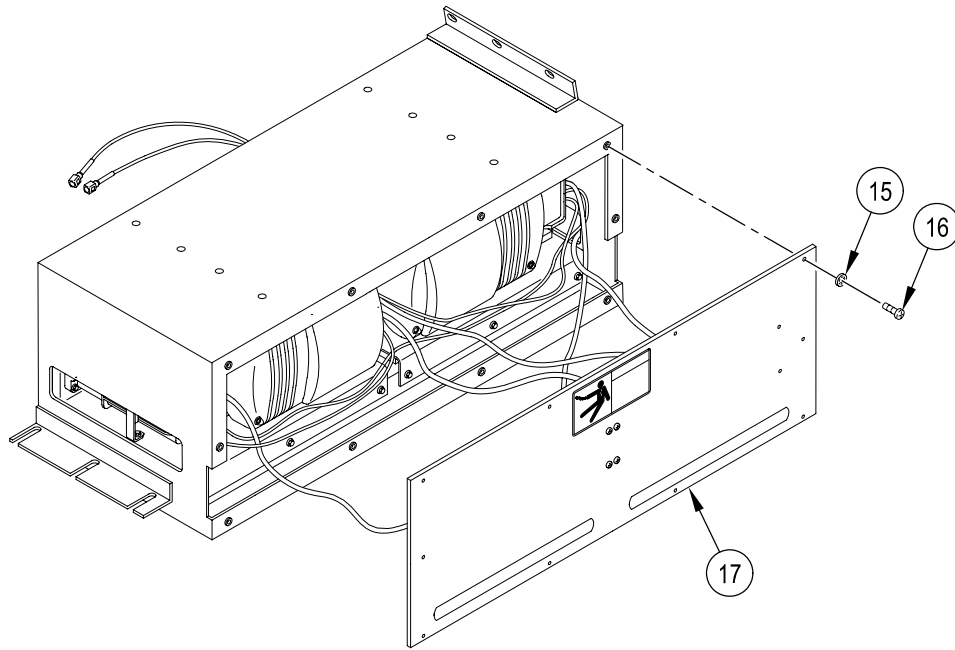
Both inverters are identical, however due to space constraints, one of the inverters must be mounted upside down.

10. Slide inverter (IN1) mount assembly (20) into housing (19). Have helper assist.
11. Install three cap screws (21), new lockwashers (22), and flat washers (23) securing the inverter (IN1) mount assembly (20) to the inverter housing (19).



TO AID IN CLARITY INVERTER SHOWN COMPLETELY OUT OF HOUSING

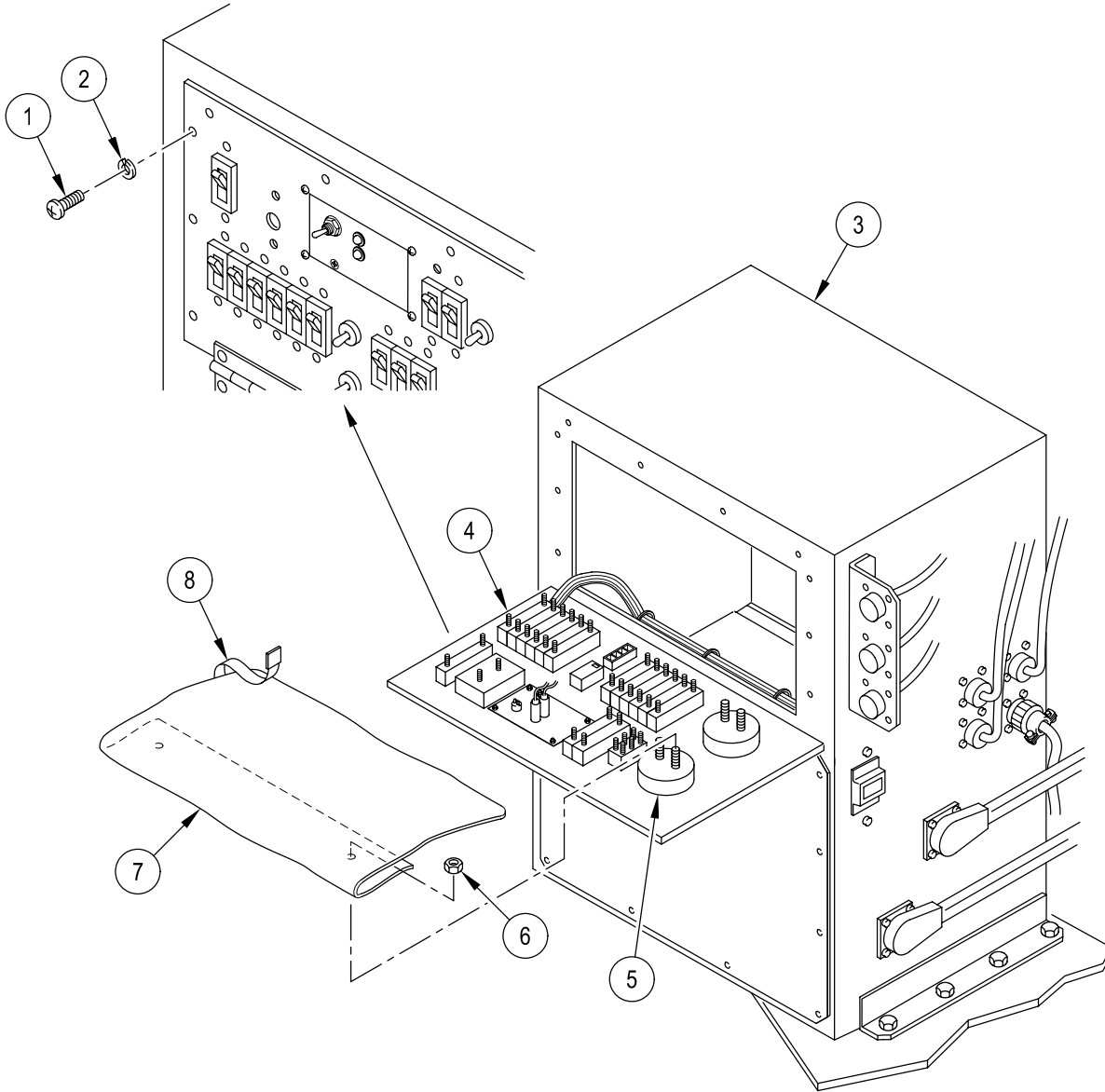
12. Position inverter housing cover (17) on inverter housing and secure with ten screws (16) and new lockwashers (15).



REPLACE OUTBACK REMOTE CABLE ASSEMBLY (M1068A3 ONLY) — Continued

0847 01

13. Install safety cover (7) using nut (6) on terminal 2 of meter M1 (5). Pull and wrap strap (8) around local wiring.
14. Position the faceplate (4) on power enclosure (3) and secure with ten screws (1) and new lockwashers (2).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE HARNESS W32 (M1068A3 ONLY)

0848 00

THIS WORK PACKAGE COVERS:

Removal (page 0848 00-1).
 Installation (page 0848 00-4).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Disconnect all external power (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Strap (11)

Personnel Required

Power-Generation Equipment Repairer 52D10

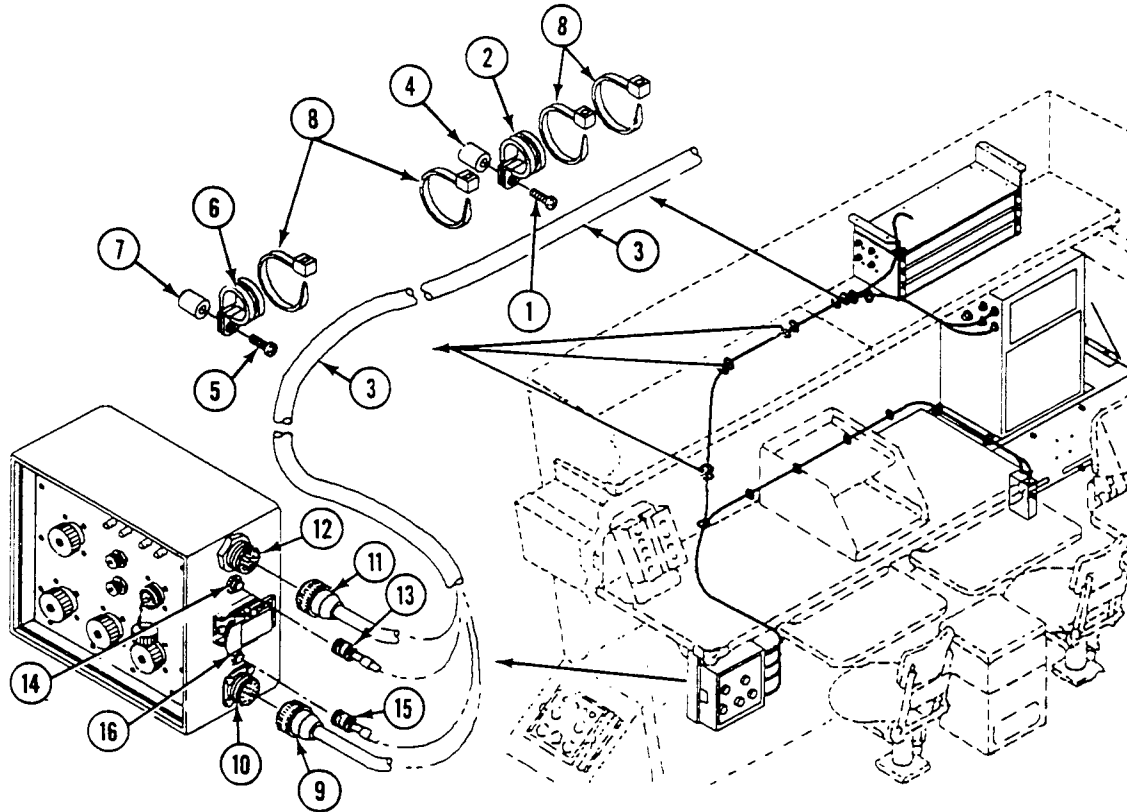
REMOVAL

1. Remove screw (1) and clamp (2) from W32 harness (3) and weldnut (4).

REPLACE HARNESS W32 (M1068A3 ONLY) — Continued

0848 00

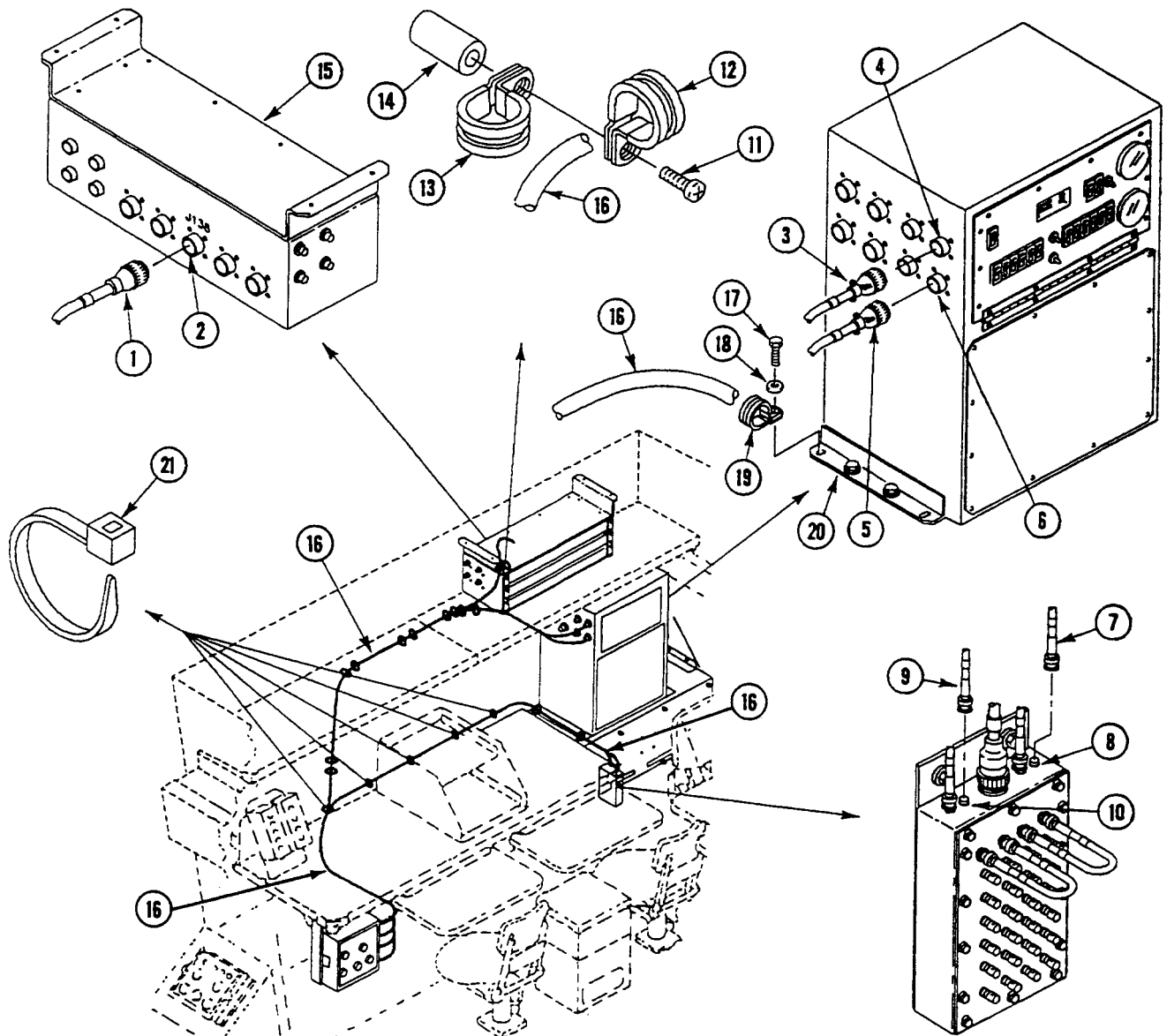
2. Remove three screws (5) and clamps (6) from W32 harness (3) and weldnuts (7).
3. Remove six straps (8) from W32 harness (3). Discard straps.
4. Disconnect W32 harness plug P6 (9) from tent interface panel box A5 jack J7 (10).
5. Disconnect W32 harness plug P7 (11) from tent interface panel box A5 jack J8 (12).
6. Disconnect W32 harness plug P8 (13) from tent interface panel box A5 jack J10 (14).
7. Disconnect W32 harness plug P9 (15) from tent interface panel box A5 jack J9 (16).



REPLACE HARNESS W32 (M1068A3 ONLY) — Continued

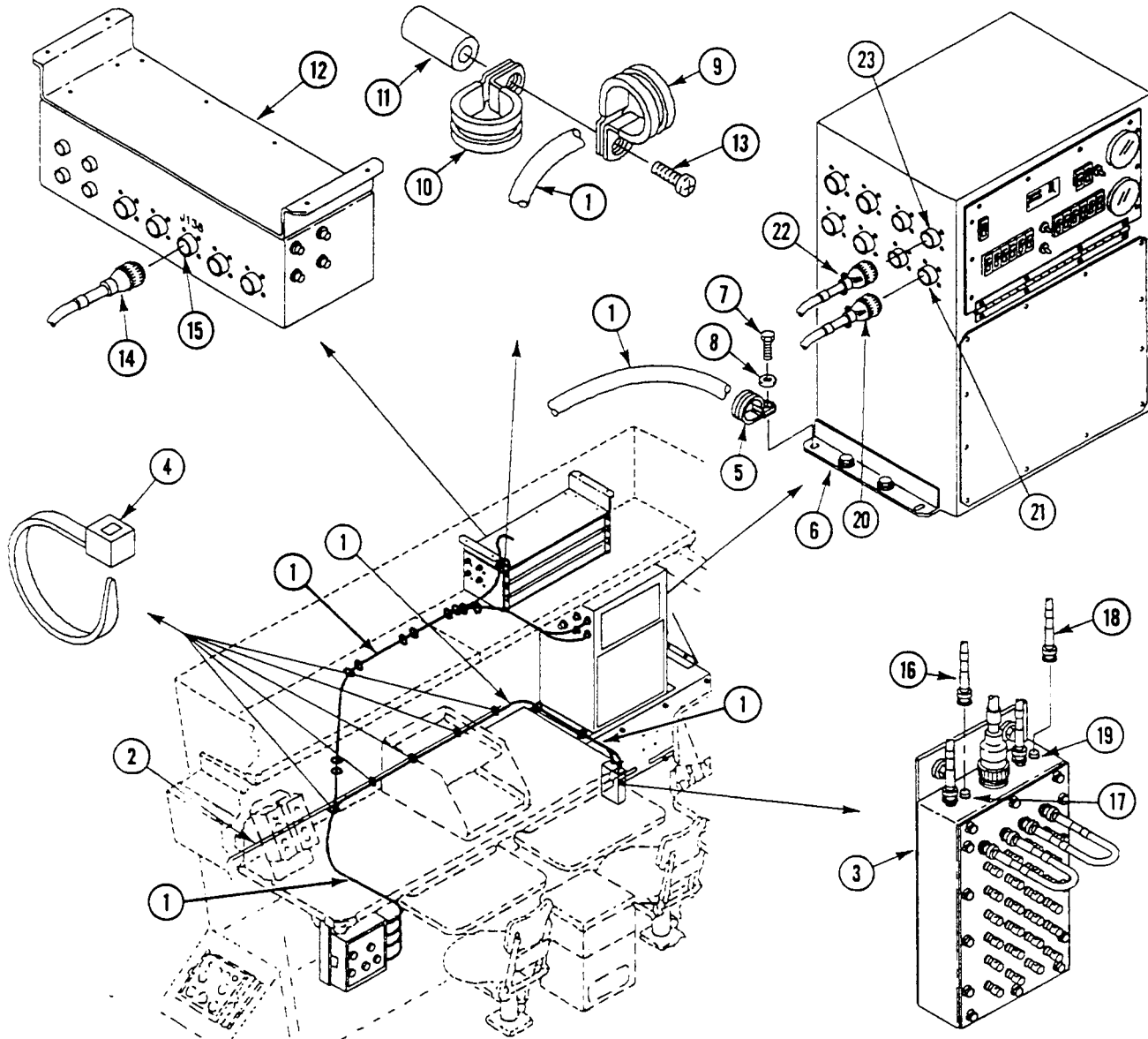
0848 00

8. Disconnect W32 harness plug P107 (1) from patch panel box A10 jack J138 (2).
9. Disconnect W32 harness plug P16 (3) from power control enclosure A1 jack J36 (4).
10. Disconnect W32 harness plug P15 (5) from power control enclosure A1 jack J32 (6).
11. Disconnect W32 harness plug P5 (7) from data panel assembly A13 jack J1 (8).
12. Disconnect W32 harness plug P4 (9) from data panel assembly A13 jack J4 (10).
13. Remove screw (11) and clamps (12) and (13) from weldnut (14) below patch panel box A10 (15). Remove clamp (12) from W32 harness (16).
14. Remove two screws (17), washers (18), and clamps (19) from power control enclosure A1 (20) and W32 harness (16).
15. Remove five straps (21) and W32 harness (16) from carrier. Discard straps.



INSTALLATION

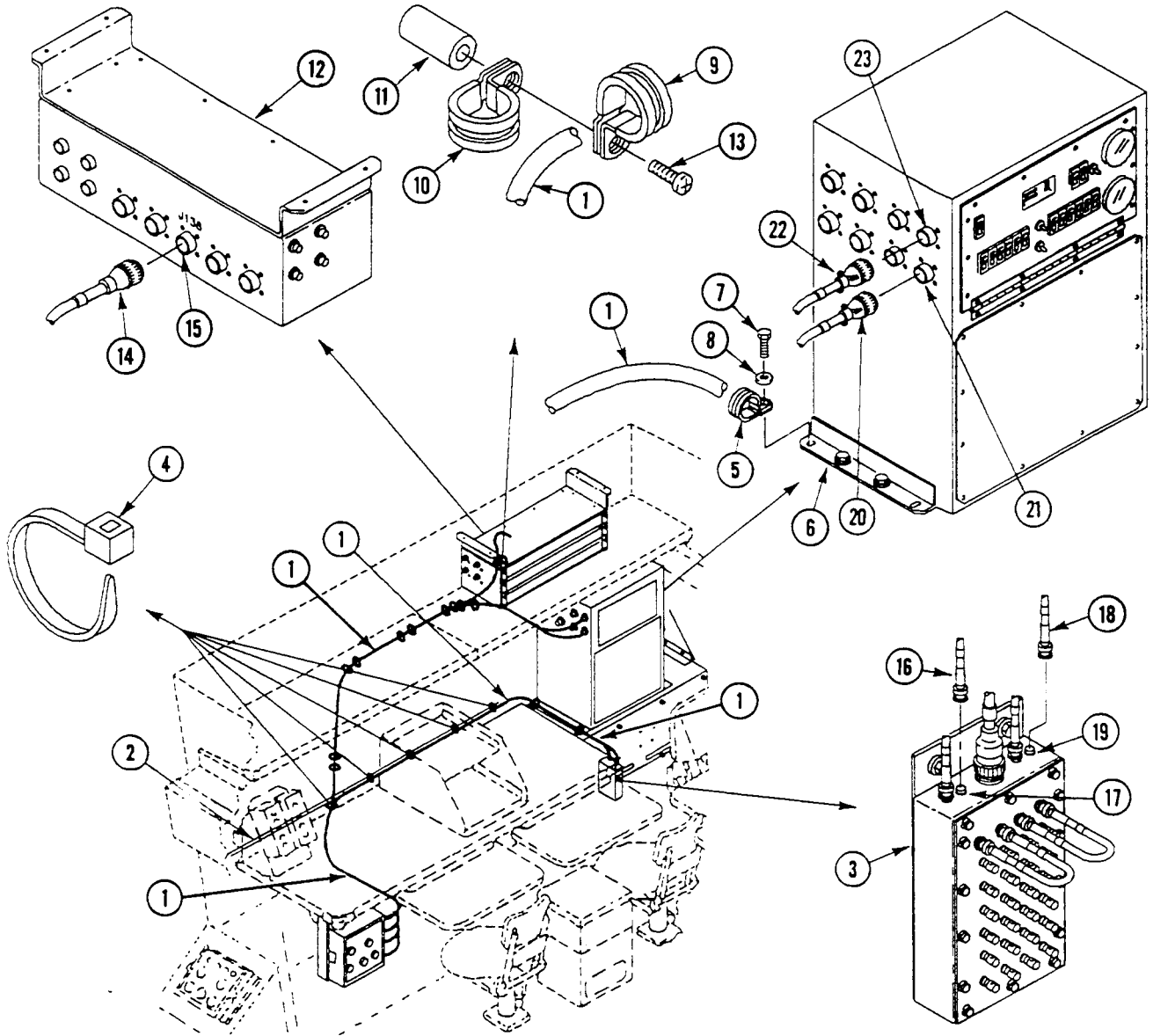
1. Route branch of W32 harness (1) along fuel line (2) to data panel assembly A13 (3). Secure W32 harness with five new straps (4).
2. Install two clamps (5) on W32 harness (1) and secure to power control enclosure A1 (6) with two screws (7) and washers (8).
3. Install clamp (9) on W32 harness (1) and secure clamps (9) and (10) to weldnut (11) below patch panel box A10 (12) with screw (13).



REPLACE HARNESS W32 (M1068A3 ONLY) — Continued

0848 00

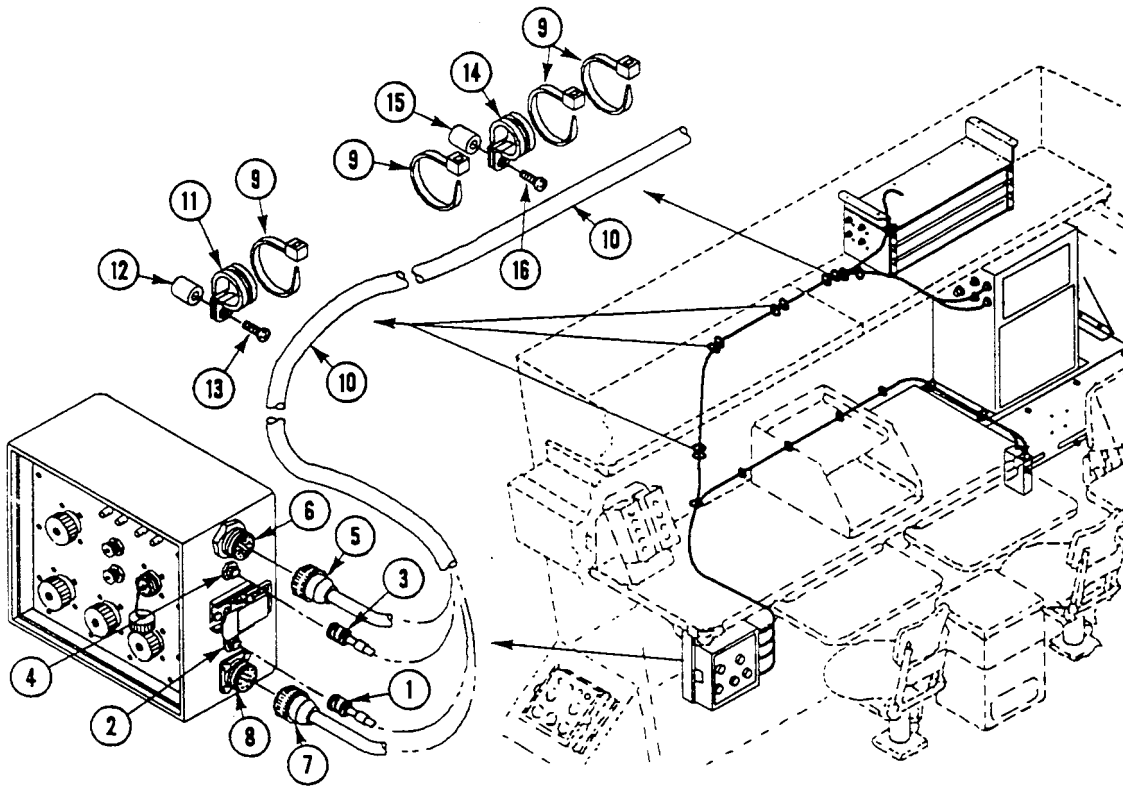
4. Connect W32 harness plug P107 (14) to patch panel box A10 jack J138 (15).
5. Connect W32 harness plug P4 (16) to data panel assembly A13 jack J4 (17).
6. Connect W32 harness plug P5 (18) to data panel assembly A13 jack J1 (19).
7. Connect W32 harness plug P15 (20) to power control enclosure A1 jack J32 (21).
8. Connect W32 harness plug P16 (22) to power control enclosure A1 jack J36 (23).



REPLACE HARNESS W32 (M1068A3 ONLY) — Continued

0848 00

9. Connect W32 harness plug P9 (1) to tent interface panel box A5 jack J9 (2).
10. Connect W32 harness plug P8 (3) to tent interface panel box A5 jack J10 (4).
11. Connect W32 harness plug P7 (5) to tent interface panel box A5 jack J8 (6).
12. Connect W32 harness plug P6 (7) to tent interface panel box A5 jack J7 (8).
13. Install six new straps (9) on W32 harness (10).
14. Install three clamps (11) on W32 harness (10) and secure to weldnuts (12) with screws (13).
15. Install clamp (14) on W32 harness (10) and secure to weldnut (15) with screw (16).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE CABLE W35, CABLE W28, AND CABLE ADAPTER (M1068A3 ONLY)

0849 00

THIS WORK PACKAGE COVERS:

Removal (page 0849 00-1).
 Installation (page 0849 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

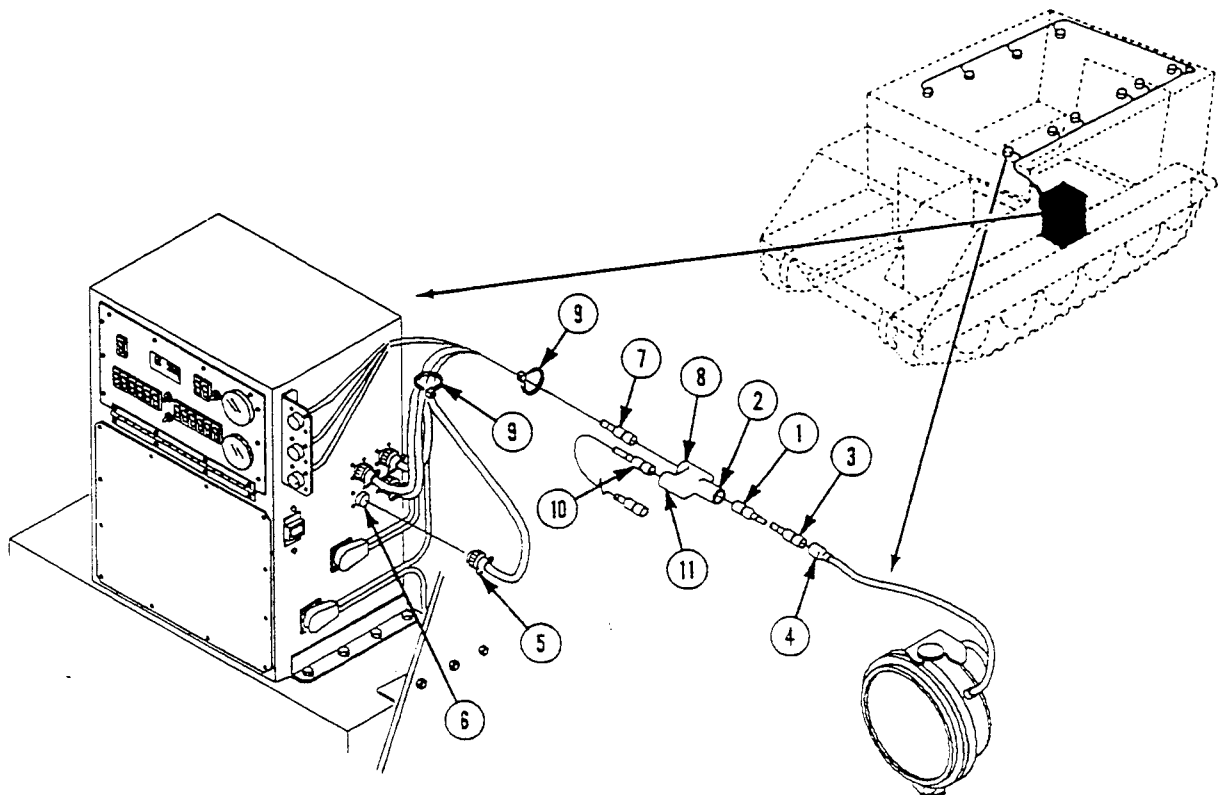
Strap (5)

Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

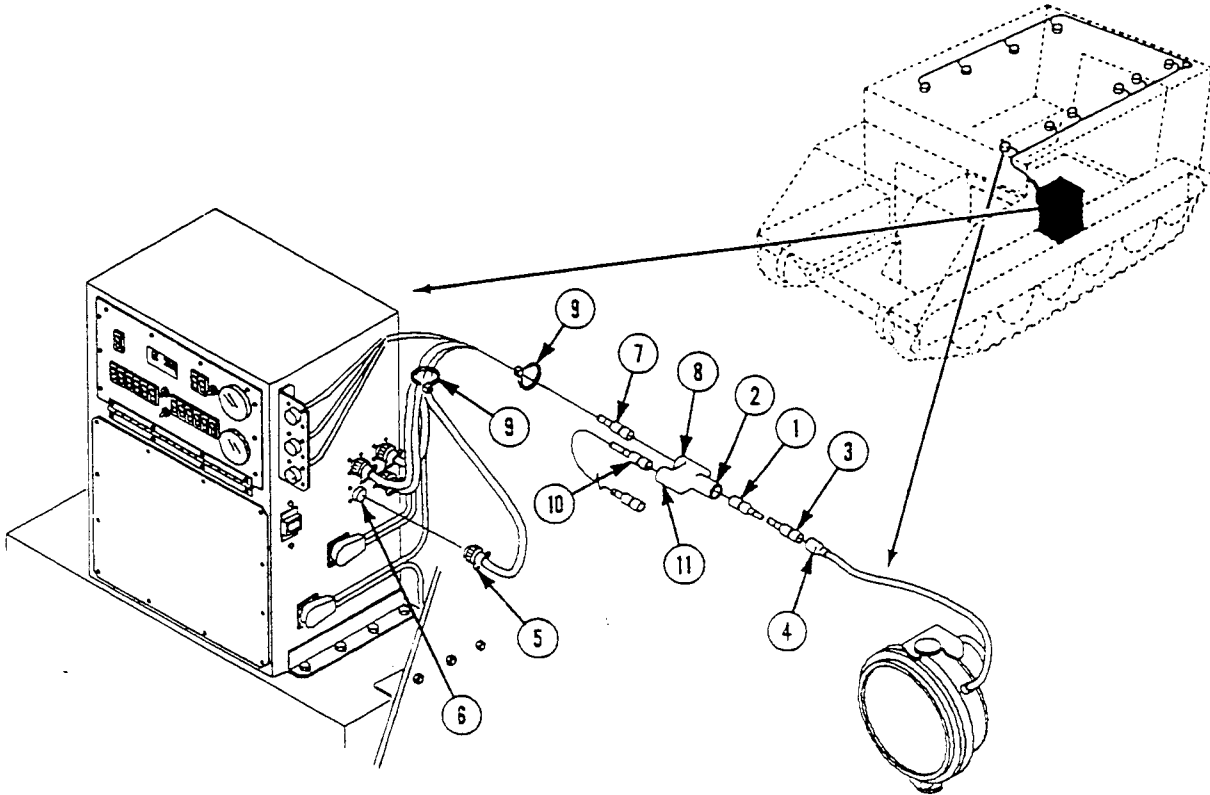
1. Disconnect cable plug W28P1 (1) from connector adapter plug T1P1 (2).
2. Disconnect cable plug W28P2 (3) from circuit 38B lead (4).



**REPLACE CABLE W35, CABLE W28, AND CABLE ADAPTER (M1068A3 ONLY) —
Continued**

0849 00

3. Disconnect cable plug W35P9 (5) from power control enclosure jack A1J29 (6).
4. Disconnect cable plug W35P1 (7) from connector adapter plug T1P2 (8).
5. Remove five straps (9) and cable W35 from vehicle. Discard straps.
6. Disconnect circuit 38B lead (10) from connector adapter plug T1P3 (11).

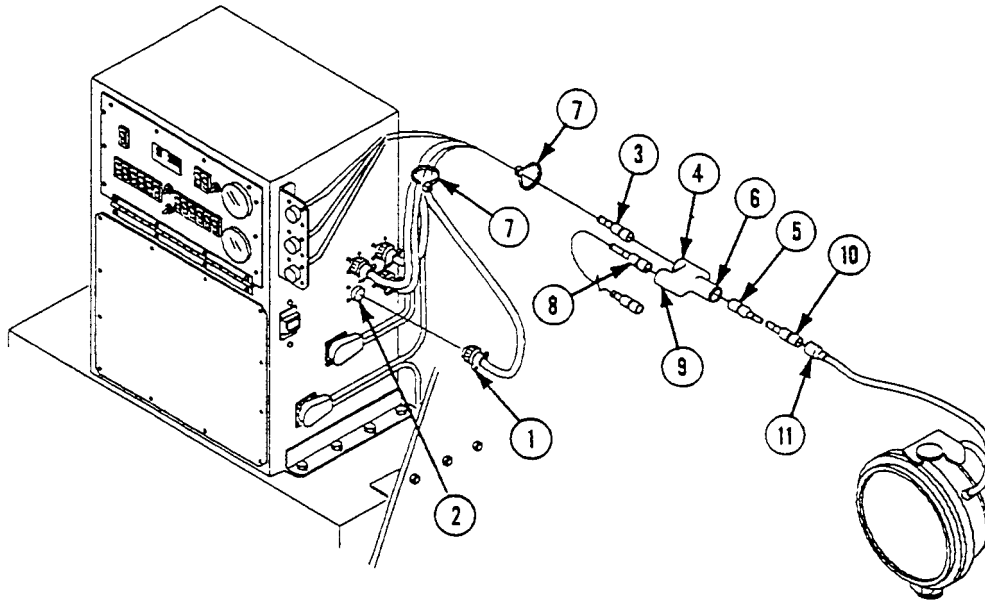


**REPLACE CABLE W35, CABLE W28, AND CABLE ADAPTER (M1068A3 ONLY) —
Continued**

0849 00

INSTALLATION

1. Connect cable plug W35P9 (1) to power control enclosure jack A1J29 (2).
2. Connect cable plug W35P1 (3) to connector adapter plug T1P2 (4).
3. Connect cable plug W28P1 (5) to connector adapter plug T1P1 (6).
4. Secure cable W35 with five new straps (7).
5. Connect circuit 38B lead (8) to connector adapter plug T1P3 (9).
6. Connect circuit 38B lead (10) to cable plug W28P2 (11).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE CABLE W38, CABLE W29, AND CABLE ADAPTER (M1068A3 ONLY)

0850 00

THIS WORK PACKAGE COVERS:

Removal (page 0850 00-1).
 Installation (page 0850 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

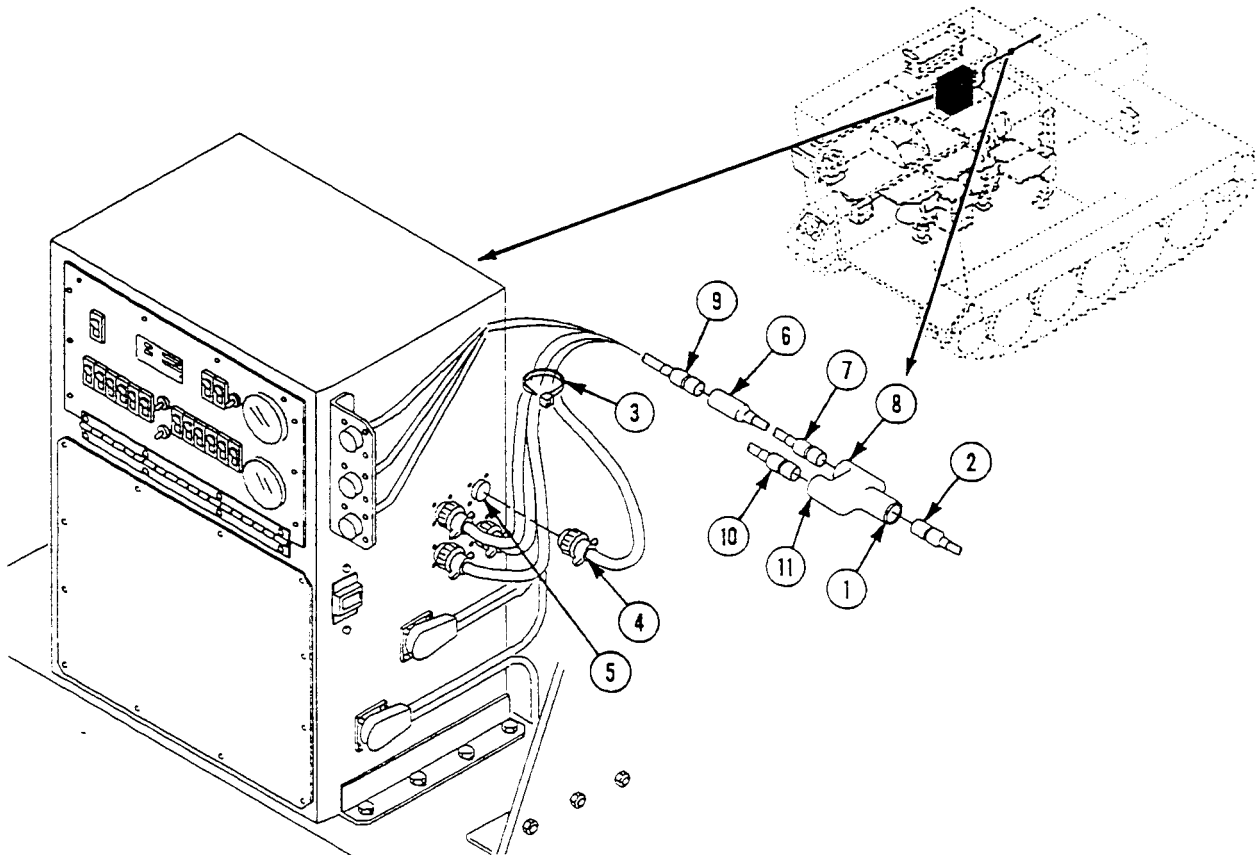
Strap

Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

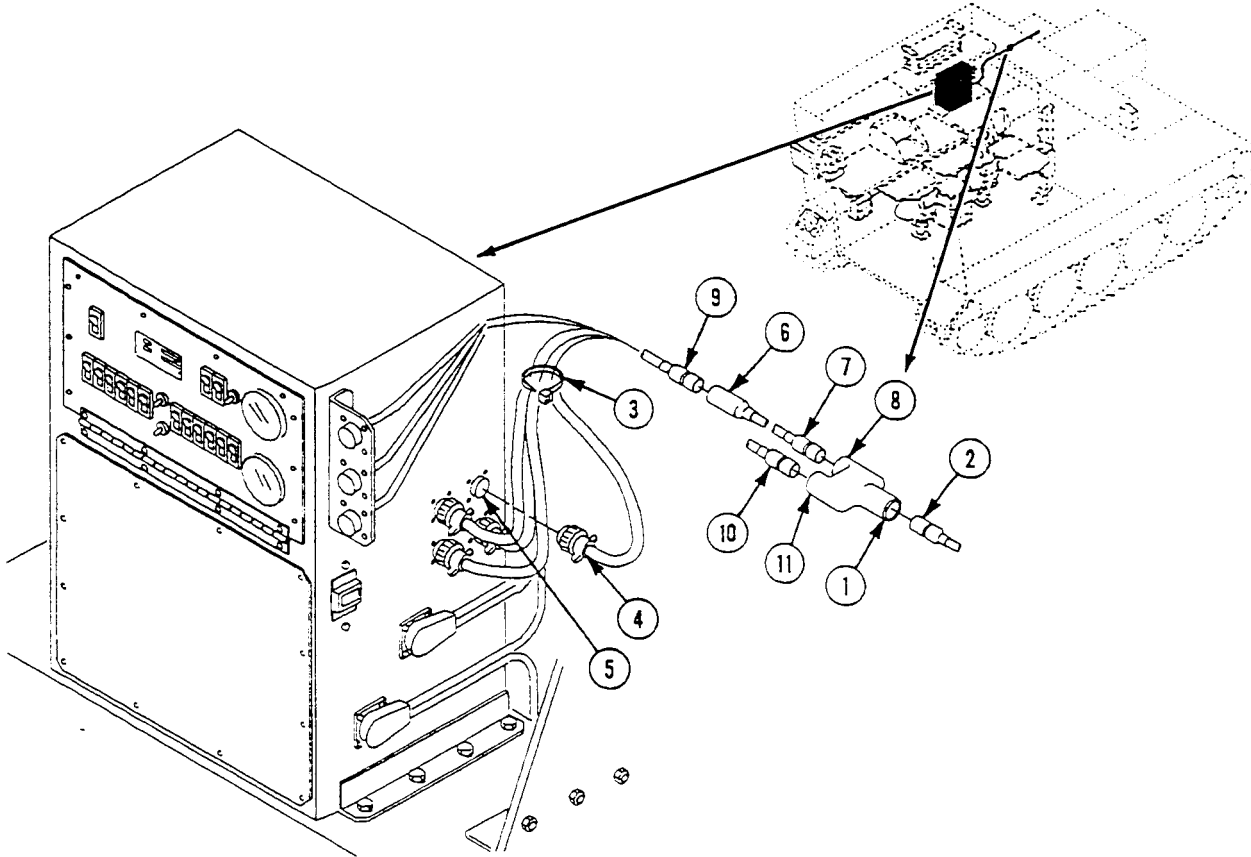
1. Disconnect connector adapter plug T2P1 (1) from circuit 415 lead (2).
2. Remove strap (3) from cables.



**REPLACE CABLE W38, CABLE W29, AND CABLE ADAPTER (M1068A3 ONLY) —
Continued**

0850 00

3. Disconnect cable plug W38P7 (4) from power control enclosure jack A1J28 (5).
4. Disconnect cable plugs W29P2 (6) and W29P1 (7) from adapter plug T2P2 (8) and cable plug W38P6 (9).
5. Remove dummy connector plug (10) from connector adapter plug T2P3 (11).

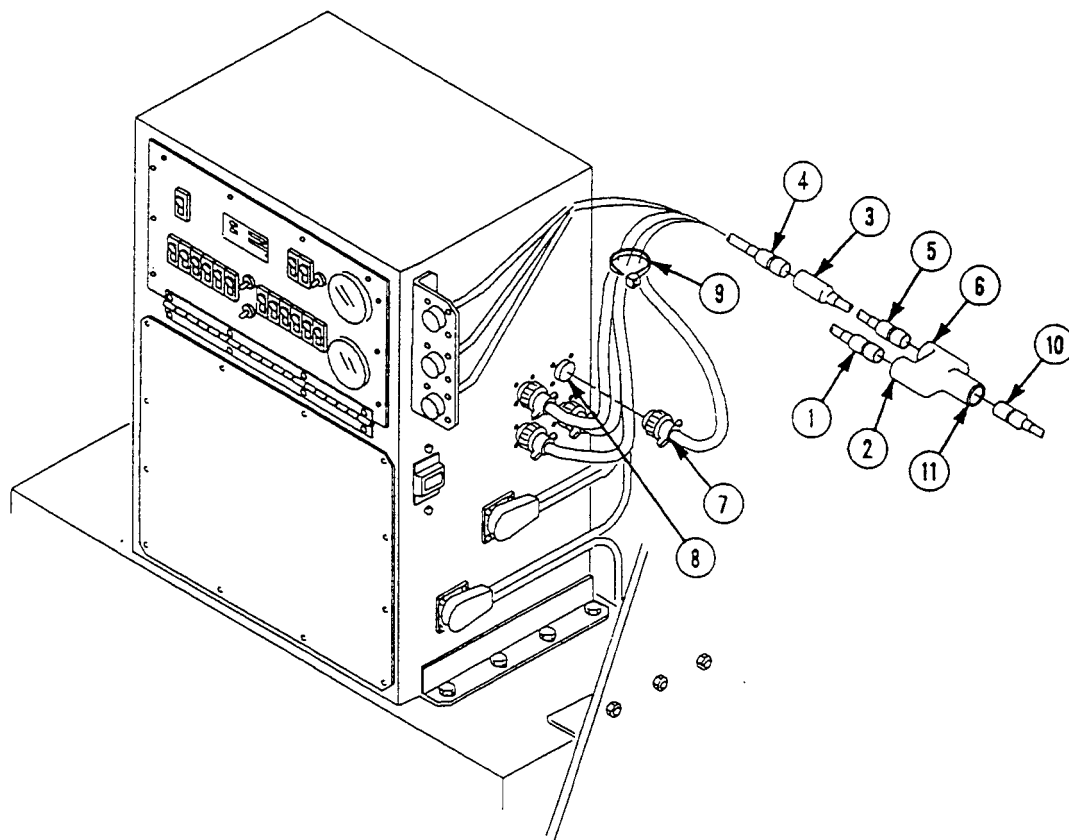


REPLACE CABLE W38, CABLE W29, AND CABLE ADAPTER (M1068A3 ONLY) —
Continued

0850 00

INSTALLATION

1. Install dummy connector plug (1) in connector adapter plug T2P3 (2).
2. Connect cable plug W29P2 (3) to cable plug W38P6 (4).
3. Connect cable plug W29P1 (5) to connector adapter plug T2P2 (6).
4. Connect cable plug W38P7 (7) to power control enclosure jack A1J28 (8).
5. Secure cables with new strap (9).
6. Connect connector adapter plug T2P1 (10) to circuit 415 lead (11).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE SINGLE POINT LAN CABLE (W40) (M1068A3 ONLY)

0851 00

THIS WORK PACKAGE COVERS:

Removal (page 0851 00-1).
 Installation (page 0851 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Materials/Parts

Electrical tie-down strap

Personnel Required

Signal Support System Specialist 31U10

References

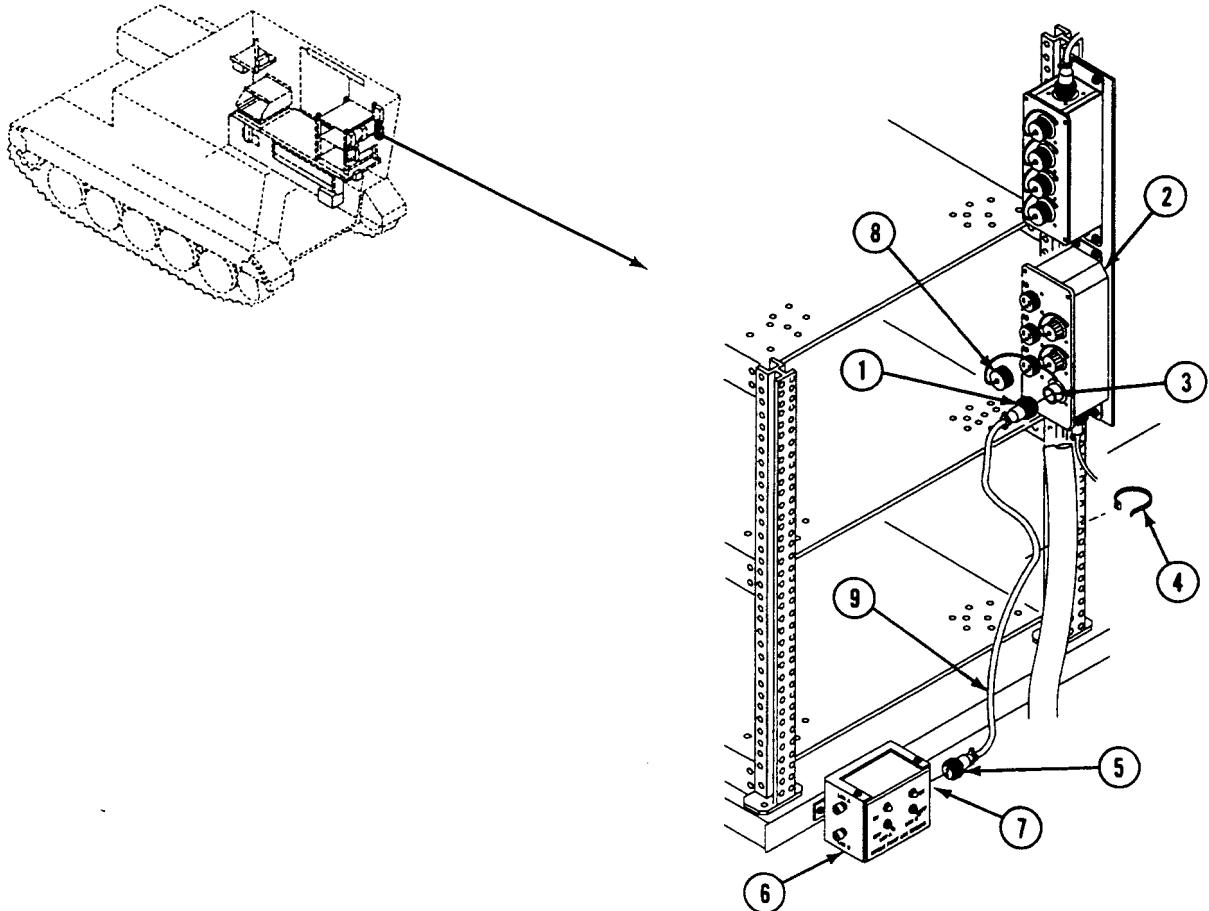
See your -10
 TM 11-7010-256-12&P

Equipment Condition

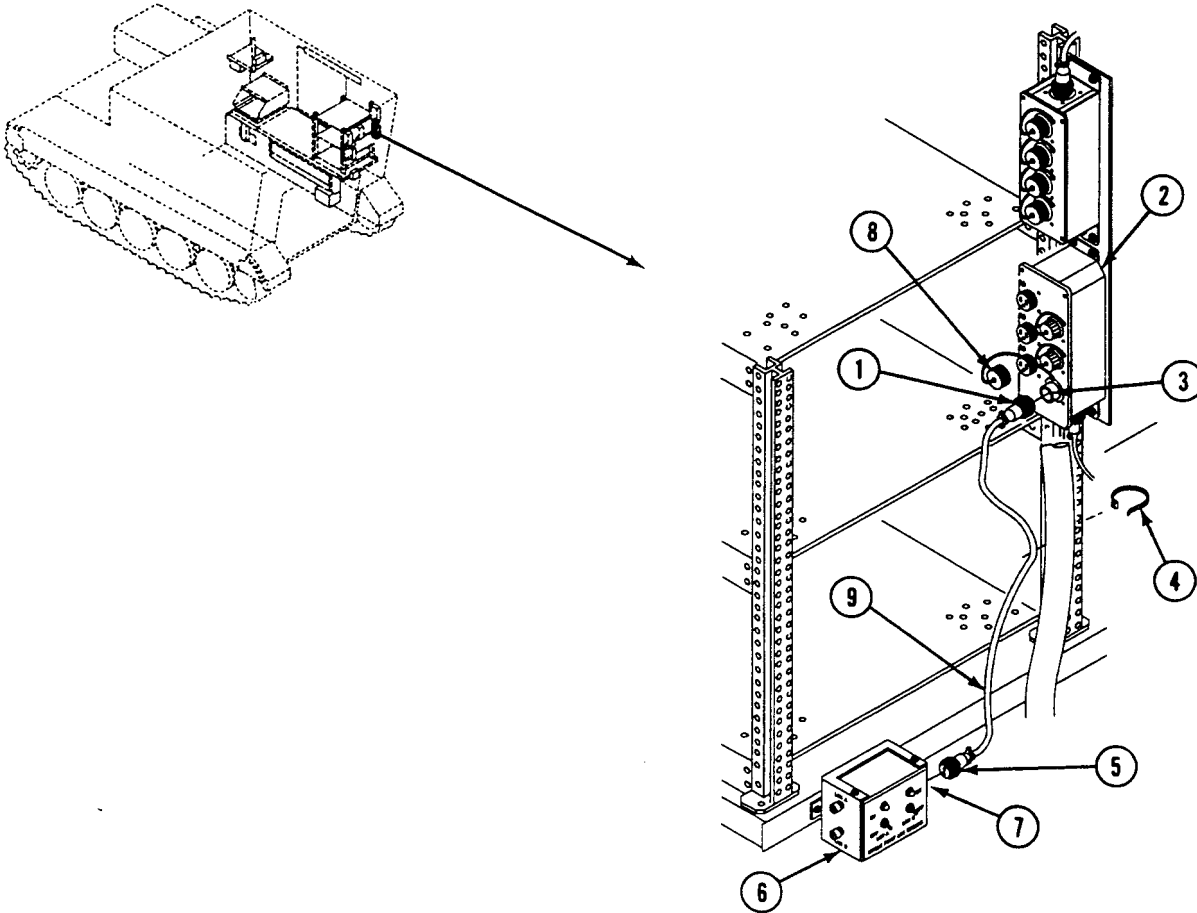
Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

REMOVAL

1. Disconnect cable W40 plug P1 (1) from DC power extension box A8 (2) jack J17 (3).

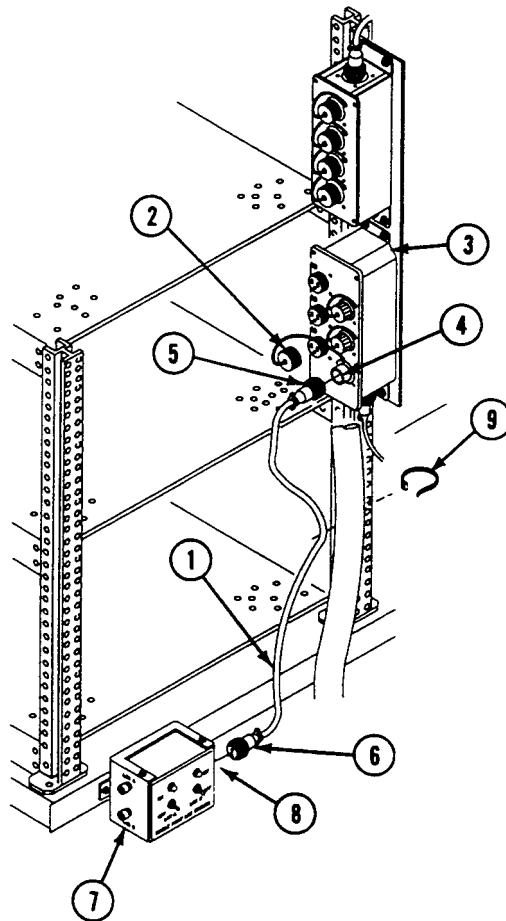


2. Remove electrical tie-down strap (4). Discard strap.
3. Disconnect cable W40 plug P2 (5) from single point LAN ground box A15 (6) jack J1 (7).
4. Install dust cap (8) on DC power extension box A8 (2) jack J17 (3).
5. Remove cable W40 (9) from carrier.



INSTALLATION

1. Install cable W40 (1) in carrier.
2. Remove dust cap (2) from DC power extension box A8 (3) jack J17 (4).
3. Connect cable W40 plug (5) to DC power extension box A8 (3) jack J17 (4).
4. Connect cable W40 plug 2 (6) to single point LAN ground box A15 (7) jack J1 (8).
5. Secure excess cable slack with new electrical tie-down strap (9).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH ON (see your -10). Check that electrical system works properly.
3. Turn MASTER SWITCH OFF (see your -10).

END OF TASK

REPLACE CABLES W42, W43, AND W251 (M1068A3 ONLY)

0852 00

THIS WORK PACKAGE COVERS:

Removal (page 0852 00-1).
 Installation (page 0852 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

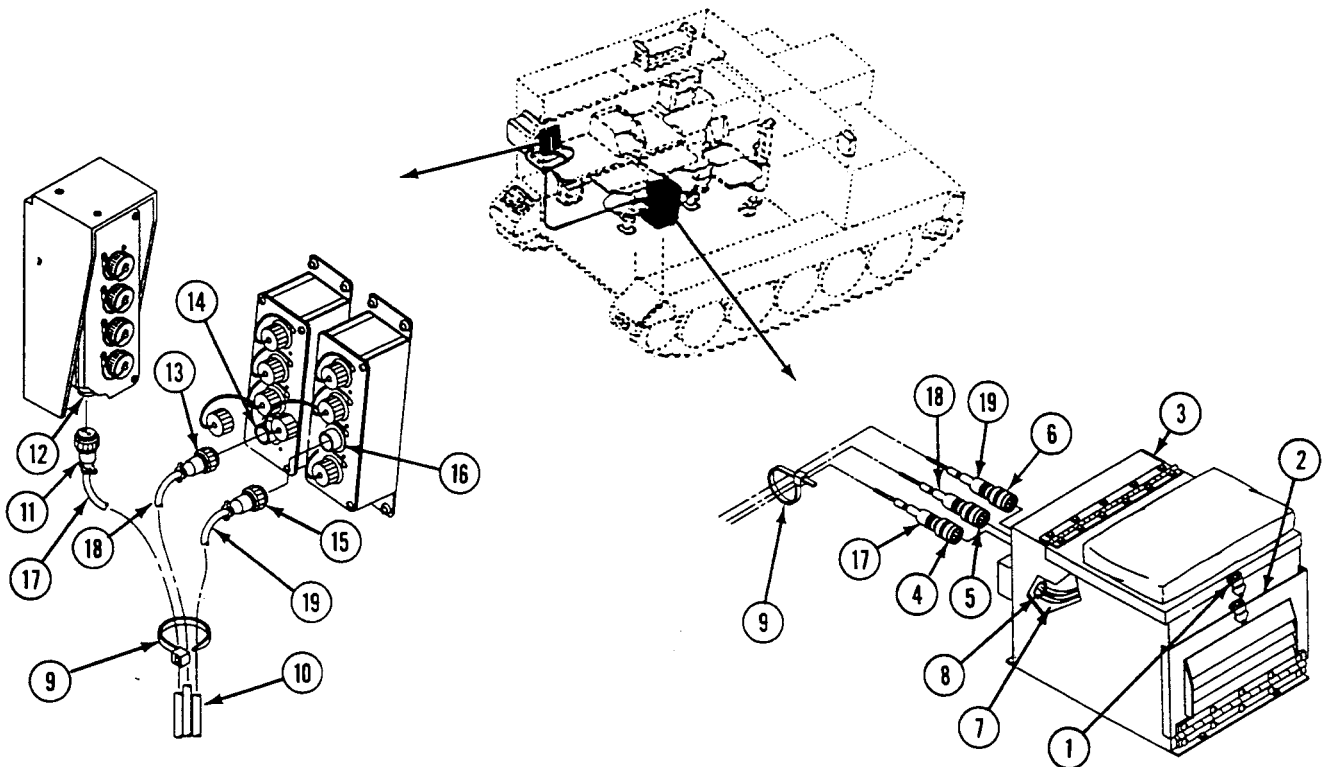
Strap (6)

Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

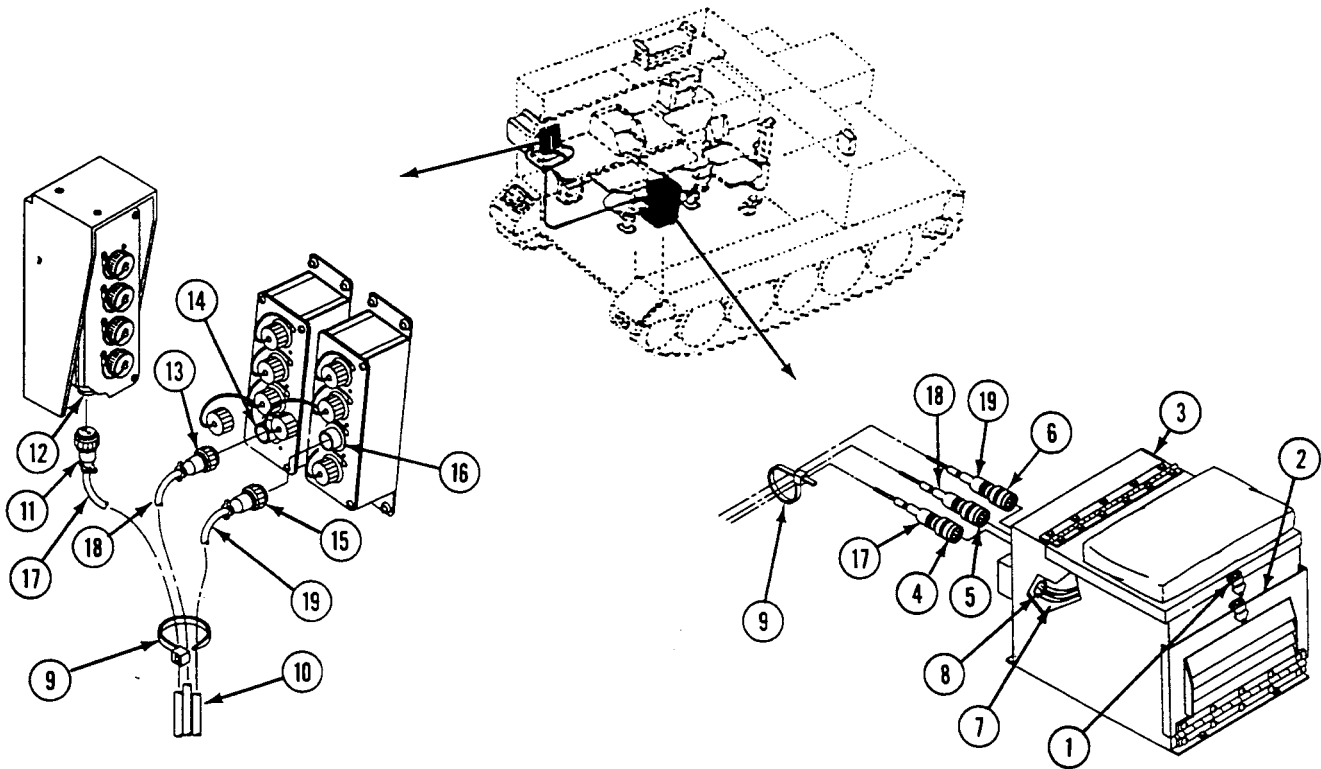
1. Release catch (1) and open cover (2) on power supply storage box (3).



REPLACE CABLES W42, W43, AND W251 (M1068A3 ONLY) — Continued

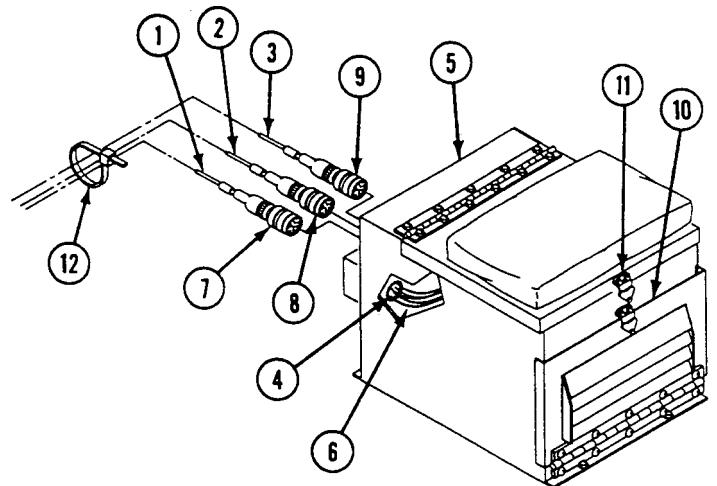
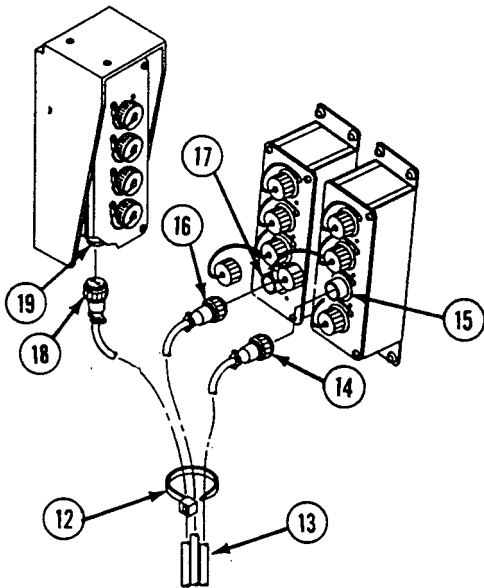
0852 00

2. Disconnect cable W251 plug P1 (4), cable W42 plug P1 (5), and cable W43 plug P1 (6) from UPS (7). Remove cables from opening (8) in back of power supply storage box (3).
3. Remove six straps (9) from cables (10).
4. Disconnect cable W251 plug P2 (11) from UPS power extension box A18 jack J6 (12).
5. Disconnect cable W42 plug P2 (13) from DC power extension box A8 jack J21 (14).
6. Disconnect cable W43 plug P2 (15) from AC power extension box A7 jack J6 (16).
7. Remove cables W251 (17), W42 (18), and W43 (19) from carrier.



INSTALLATION

1. Insert plugs P1 of three cables W251 (1), W42 (2), and W43 (3) through opening (4) in back of power supply storage box (5).
2. Connect cables to UPS (6) as follows:
 W251 plug P1 (7) to AC OUT
 W42 plug P1 (8) to DC IN
 W43 plug P1 (9) to AC IN
3. Close cover (10) on power supply storage box (5) and secure catch (11).
4. Install six new straps (12) on cables (13).
5. Connect cable W43 plug P2 (14) to AC power extension box A7 jack J6 (15).
6. Connect cable W42 plug P2 (16) to DC power extension box A8 jack J21 (17).
7. Connect cable W251 plug P2 (18) to UPS power extension box A18 jack J6 (19).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE CABLE W45 (M1068A3 ONLY)

0853 00

THIS WORK PACKAGE COVERS:

Removal (page 0853 00-1).
 Installation (page 0853 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

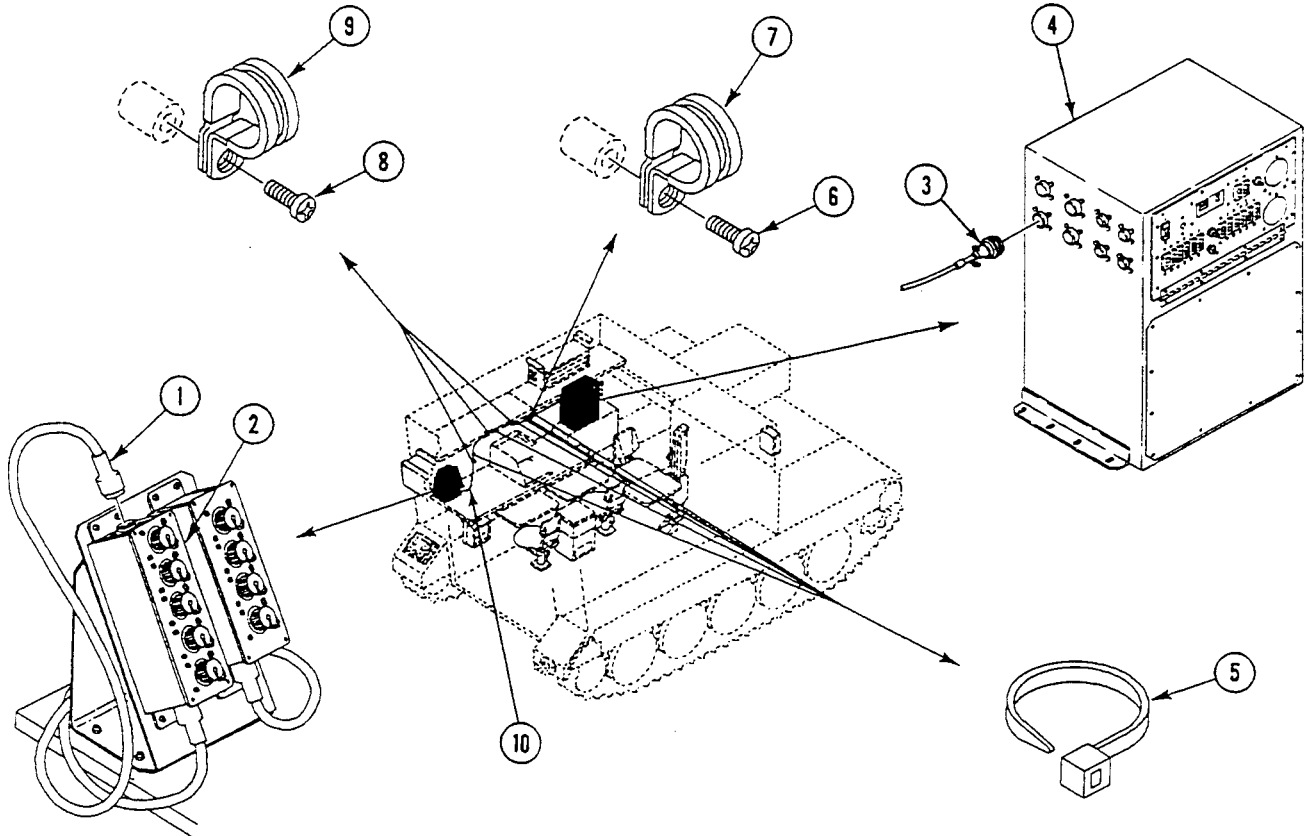
Strap (6)

Personnel Required

Power-Generation Equipment Repairer 52D10

REMOVAL

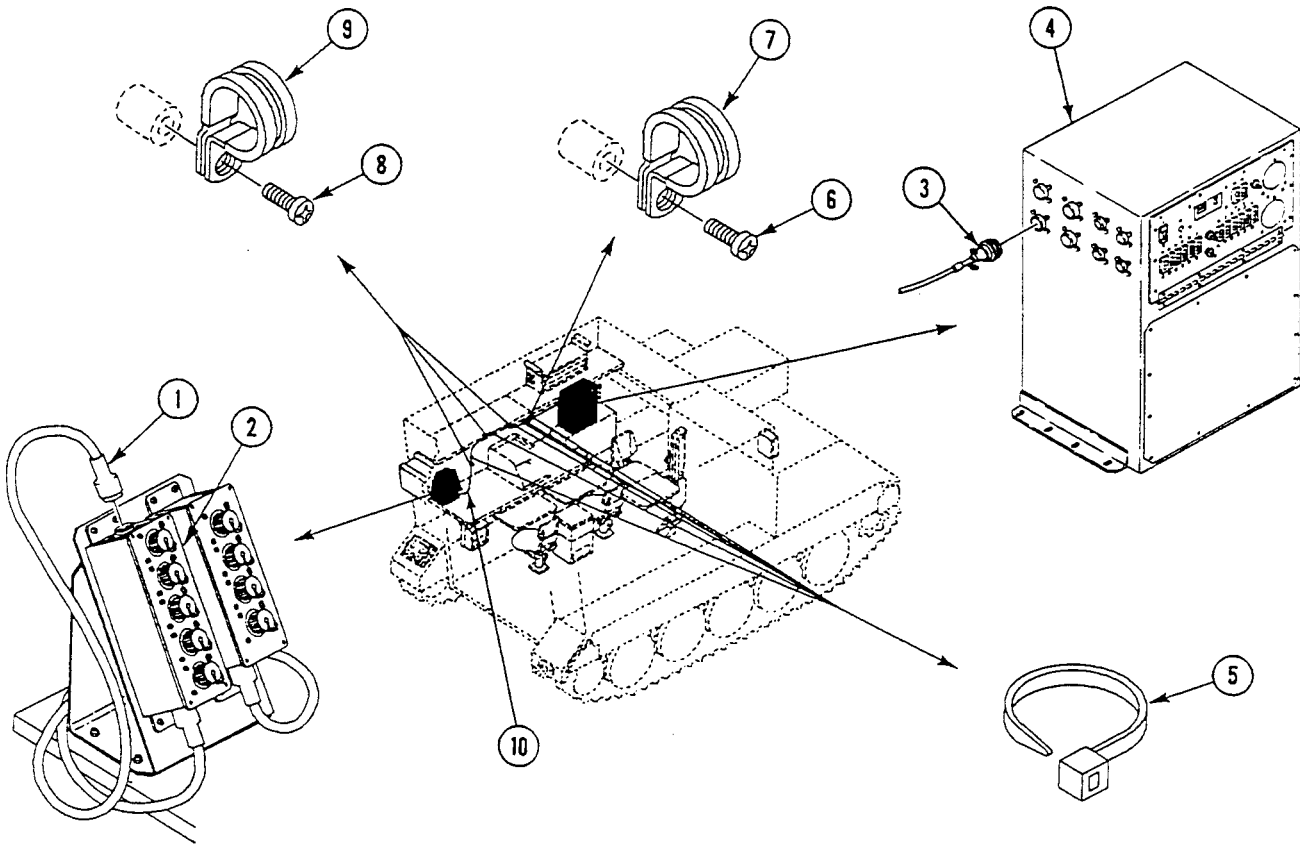
1. Disconnect cable plug W45P1 (1) from DC power extension box jack A9J2 (2).



REPLACE CABLE W45 (M1068A3 ONLY) — Continued

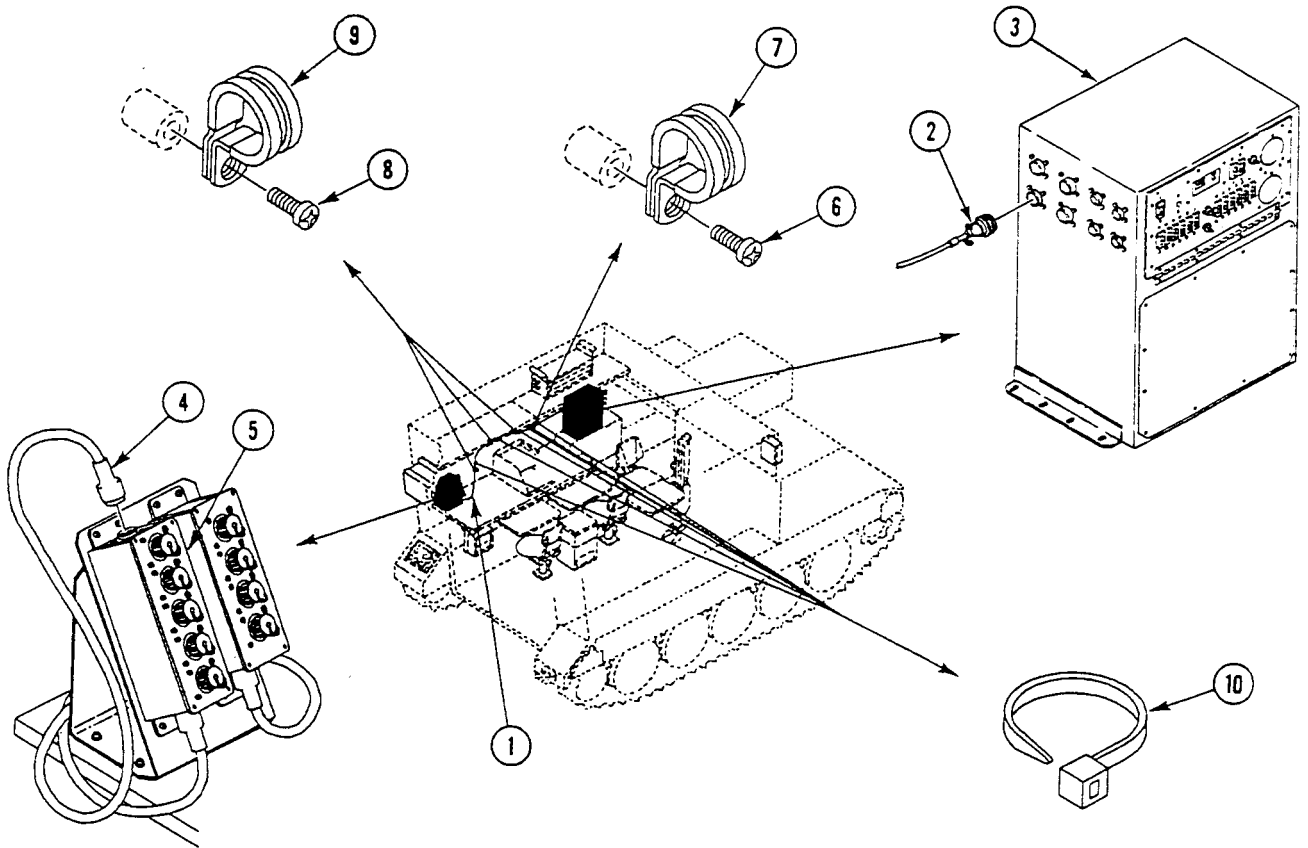
0853 00

2. Disconnect cable plug W45P13 (3) from power control enclosure jack A1J33 (4).
3. Remove six straps (5) from cables. Discard straps.
4. Remove screw (6) and clamp (7) from cables.
5. Remove three screws (8) and clamps (9) from cables. Remove cable W45 (10) from carrier.



INSTALLATION

1. Position cable W45 (1) in carrier. Connect cable plug W45P13 (2) into power control enclosure jack A1J33 (3).
2. Connect cable plug W45P1 (4) into DC power extension box jack A9J2 (5).
3. Connect cables with screw (6) and clamps (7) to bulkhead.
4. Secure cables with three screws (8) and clamps (9) to bulkhead.
5. Secure remaining cable W45 with six new straps (10) evenly between clamps (9).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0853 00).

END OF TASK

REPLACE LAN A OR B CABLE (W103/W104) (M1068A3 ONLY)

0854 00

THIS WORK PACKAGE COVERS:

Removal (page 0854 00-1).
 Installation (page 0854 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 All external power disconnected
 (TM 11-7010-256-12&P)
 Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Locknut (2)
 Strap (9)

Personnel Required

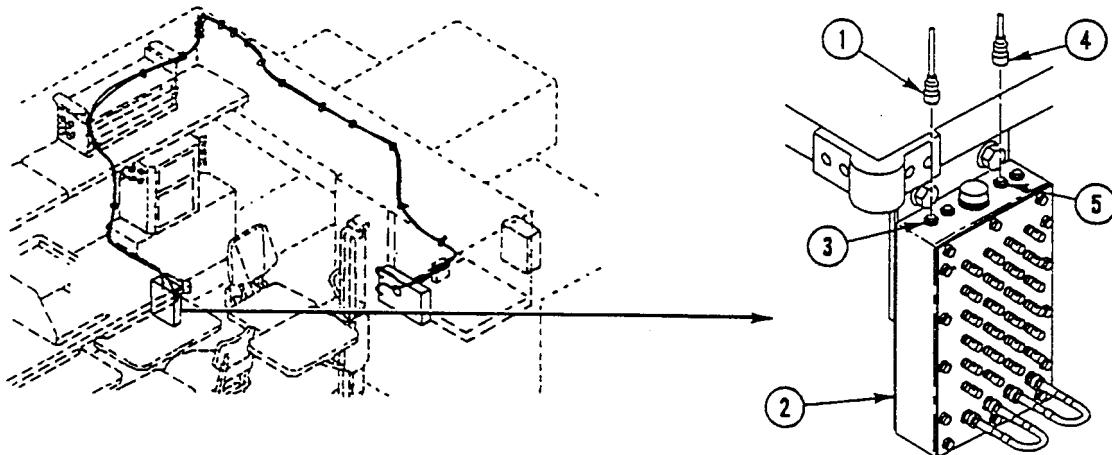
Unit Level Communications Maintainer 31V10

REMOVAL

NOTE

Cables W103 and W104 are routed together. They can be removed and installed using the same procedure.

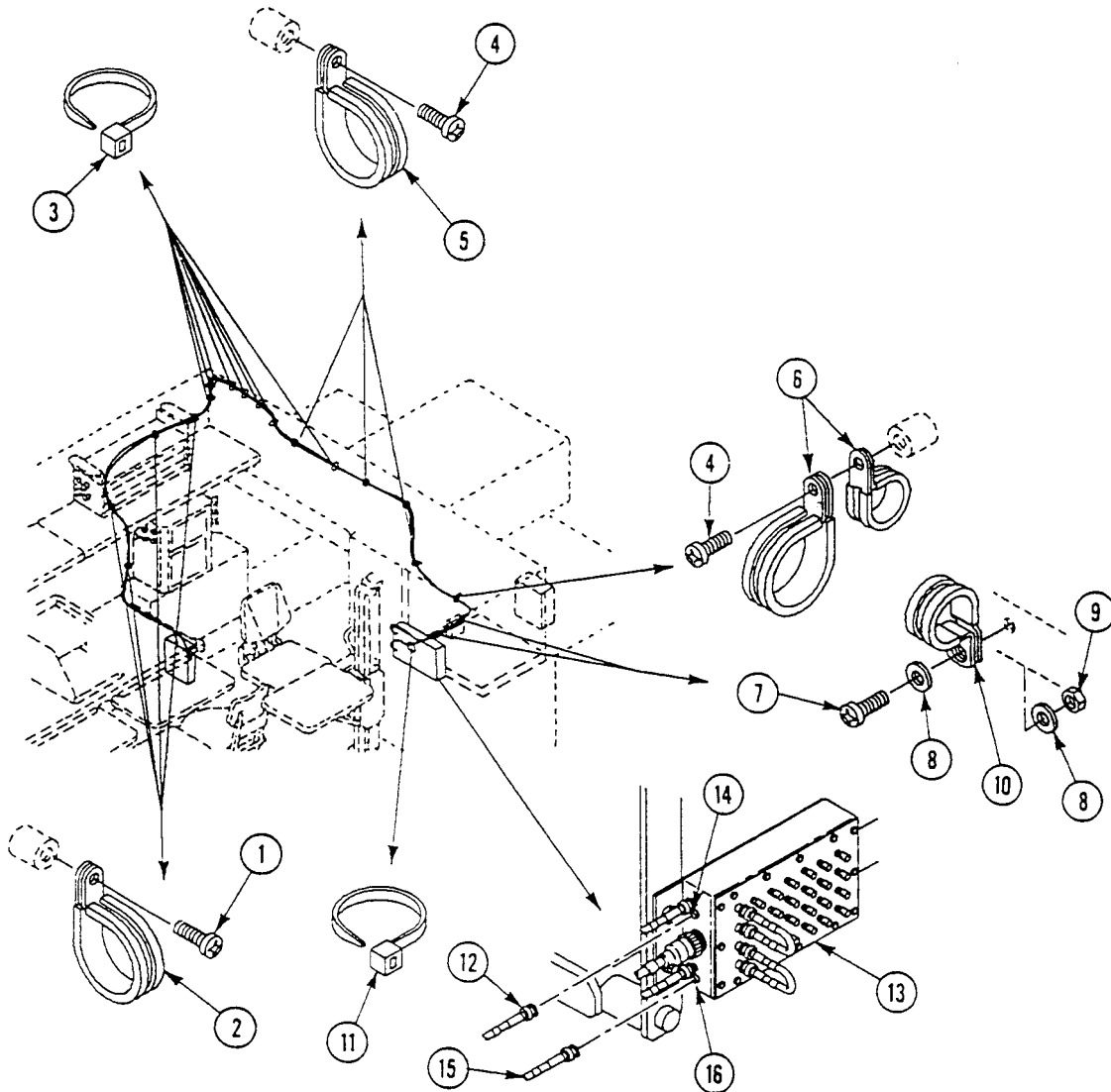
1. Remove cable W103 plug P2 (1) from roadside data box A13 (2) jack J5 (3) or W104 plug P2 (4) from roadside data box A13 (2) jack J2 (5).



REPLACE LAN A OR B CABLE (W103/W104) (M1068A3 ONLY) — Continued

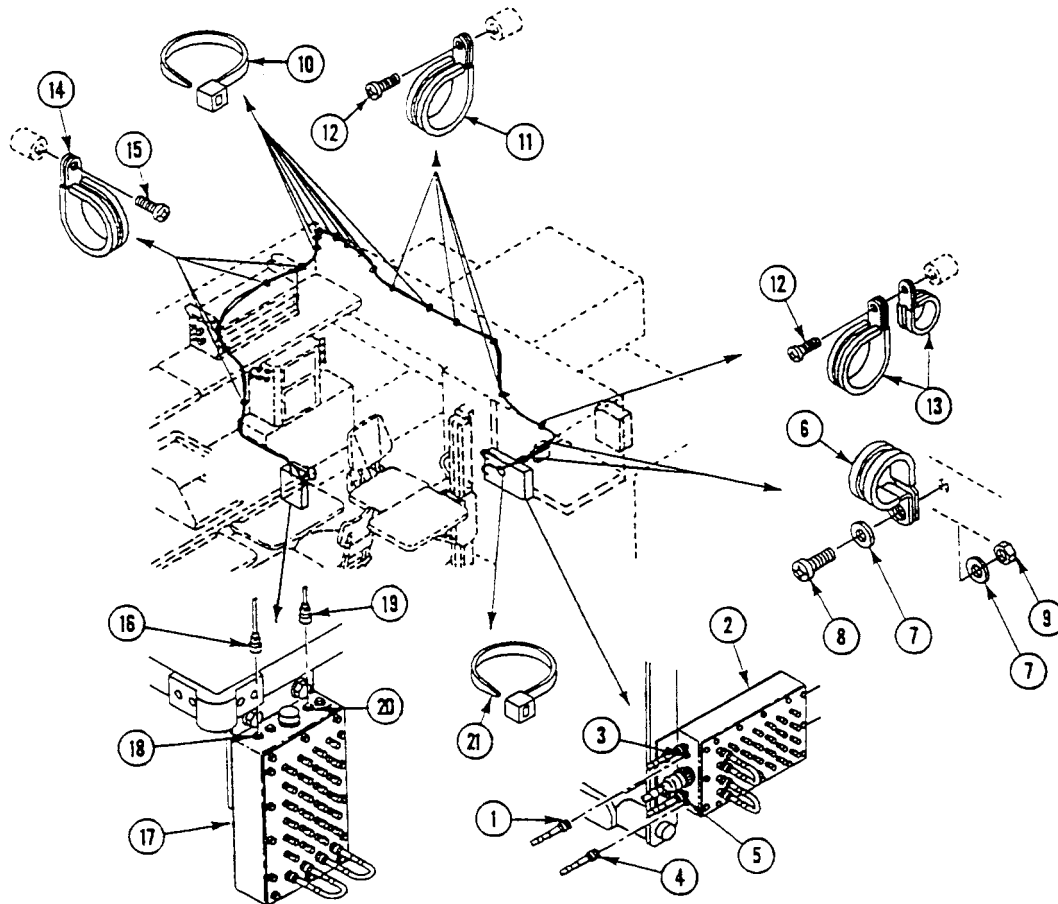
0854 00

2. Remove four screws (1) and clamps (2).
3. Remove eight straps (3). Discard straps.
4. Remove five screws (4) and clamps (5).
5. Remove screw (4) and two clamps (6) from weldnut.
6. Remove two screws (7), washers (8), locknuts (9), and clamps (10). Discard locknuts.
7. Remove strap (11). Discard strap.
8. Disconnect cables W103 plug P1 (12) from data panel assembly A12 (13) jack J2 (14) or W104 plug P1 (15) from data panel assembly A12 (13) jack J5 (16).
9. Remove cable W103 or W104 from carrier.



INSTALLATION

1. Install cable W103 or W104 in carrier.
2. Connect cable W103 plug P1 (1) to data panel assembly A12 (2) jack 2 (3) or W104 plug P1 (4) to data panel assembly A12 (2) jack J5 (5).
3. Attach cable to carrier with two clamps (6), washers (7), two screws (8), and new locknuts (9).
4. Secure excess slack in cable with new strap (10).
5. Attach cable to carrier hull above engine access panel with four clamps (11) and screws (12).
6. Install two clamps (13) and screws (12) on weldnut.
7. Attach cable to left side of carrier hull with four clamps (14) and screws (15).
8. Connect cable W103 plug P2 (16) to roadside data box A13 (17) jack J5 (18) or W104 plug P2 (19) to roadside data box A13 (17) jack J2 (20).
9. Attach excess cable slack to carrier hull above access panel with eight new straps (21).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).
2. Turn MASTER SWITCH ON (see your -10). Check that electrical system works properly.
3. Turn MASTER SWITCH OFF (see your -10).

END OF TASK

REPLACE CABLE W124 (M1068A3 ONLY)

0855 00

THIS WORK PACKAGE COVERS:

Removal (page 0855 00-1).
 Installation (page 0855 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Signal Support System Specialist 31U10

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

References

See your -10

Materials/Parts

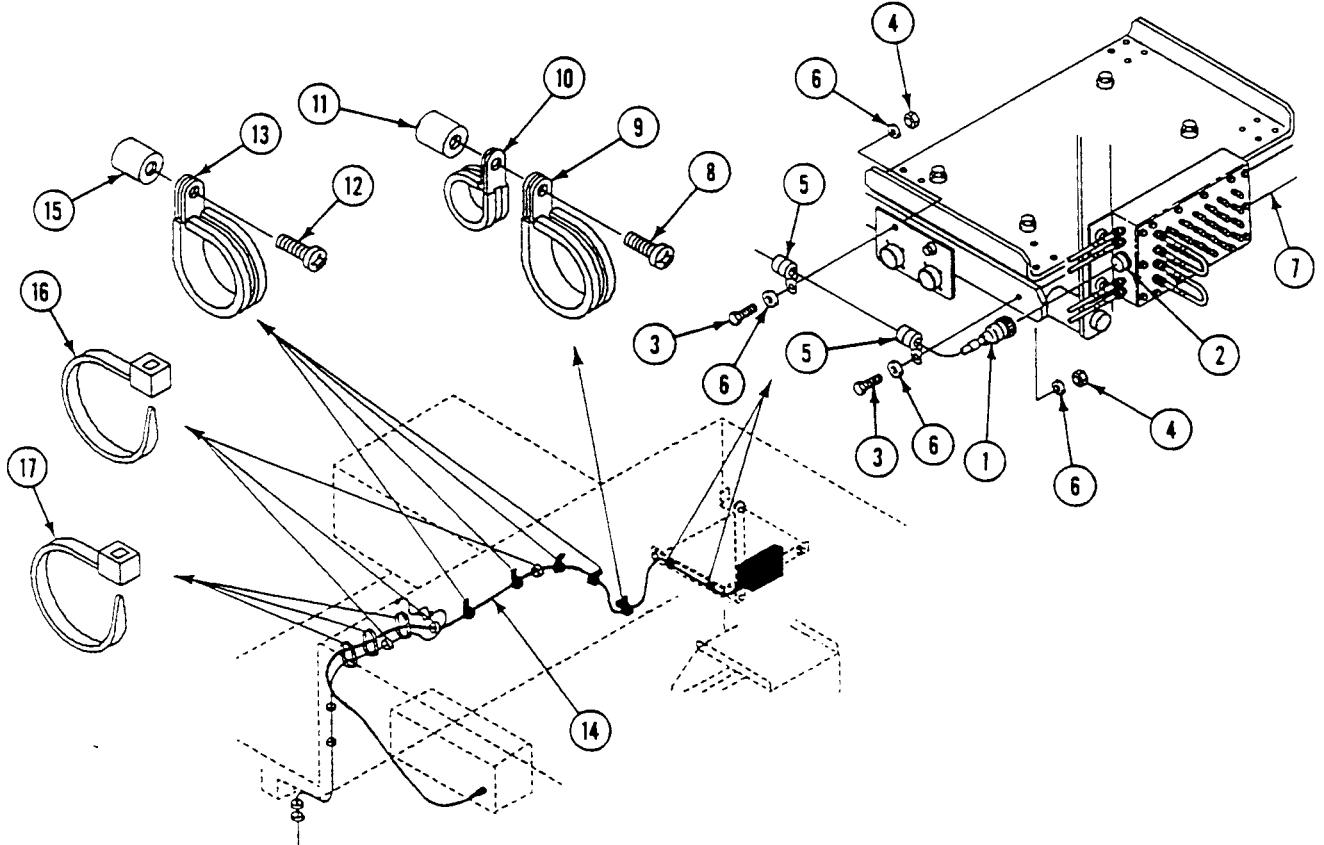
Locknut (2)
 Strap (6)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Battery ground lead disconnected (WP 0338 00)

REMOVAL

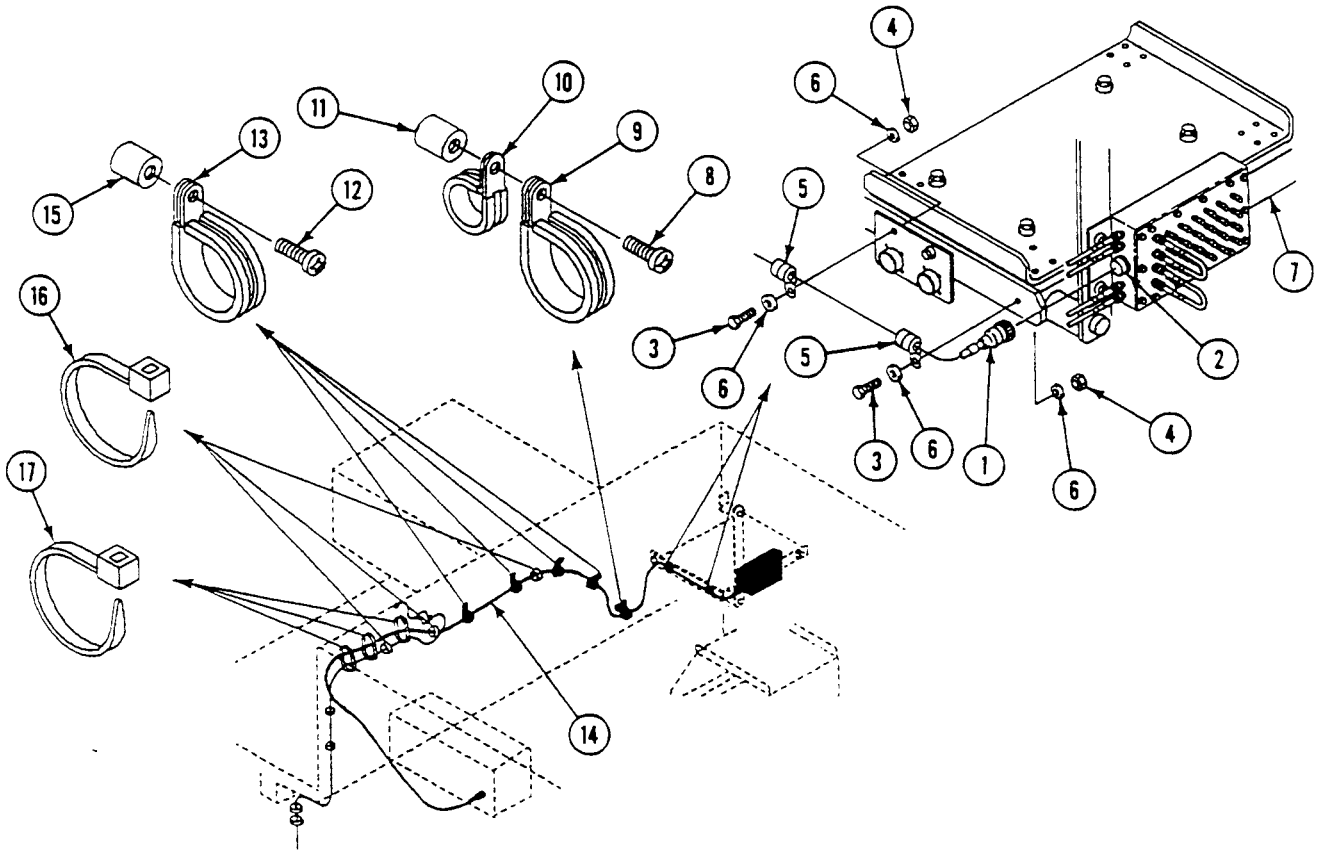
1. Disconnect cable W124 plug P1 (1) from Data Panel Assembly A12 jack J3 (2).



REPLACE CABLE W124 (M1068A3 ONLY) — Continued

0855 00

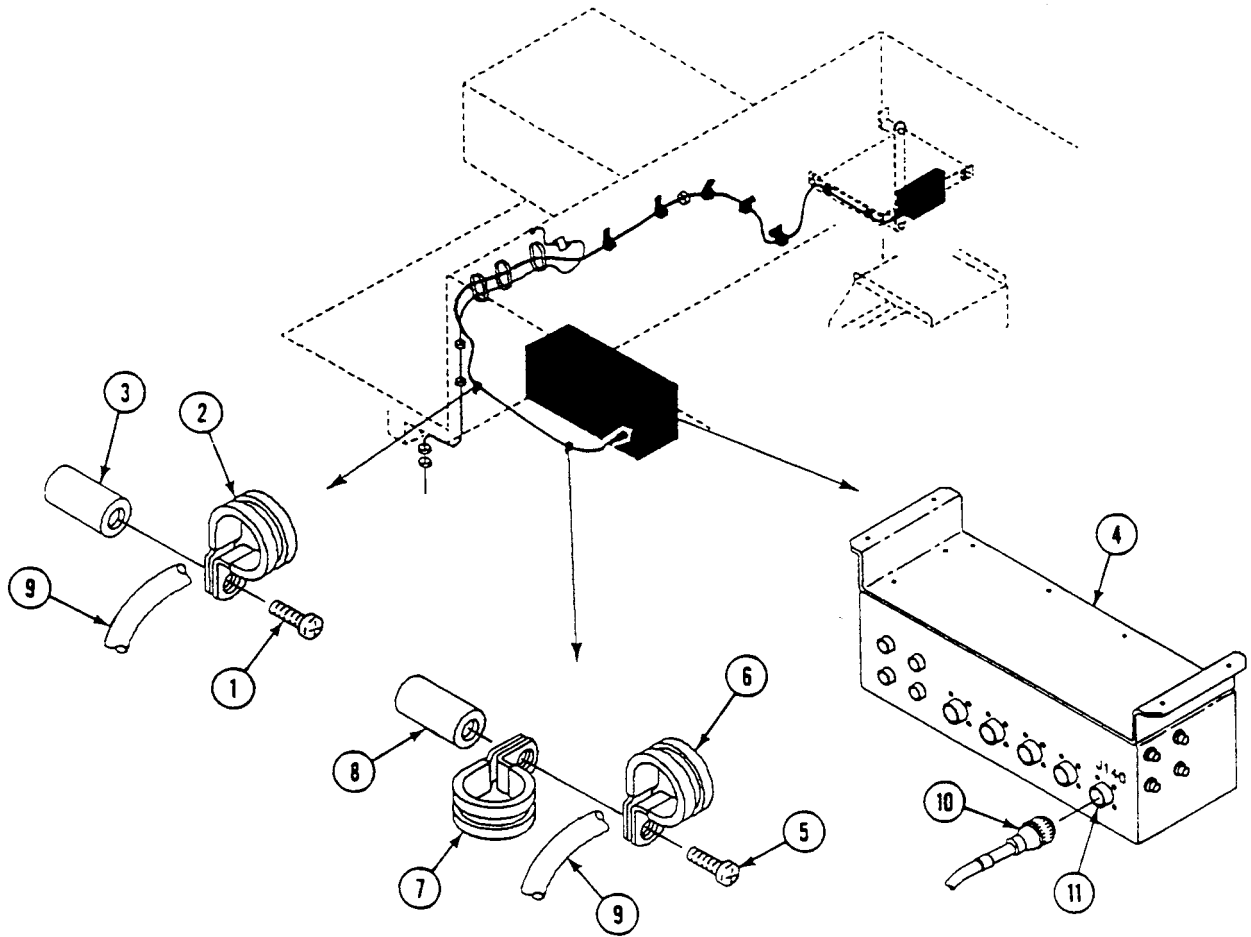
2. Remove two screws (3), locknuts (4), clamps (5), and four washers (6) from APIU rack (7). Discard locknuts.
3. Remove screw (8), clamp (9), and clamp (10) from weldnut (11).
4. Remove four screws (12) and clamps (13) from cables (14) and weldnuts (15).
5. Remove three straps (16) from cables (14). Discard straps.
6. Remove three straps (17) from cables (14). Discard straps.



7. Remove screw (1) and clamp (2) from weldnut (3) near end of Patch Panel Box A10 (4).
8. Remove screw (5), clamp (6), and clamp (7) from weldnut (8) below Patch Panel Box A10 (4). Remove clamp (6) from cables (9).
9. Disconnect cable W124 plug P109 (10) from Patch Panel Box A10 jack J140 (11).

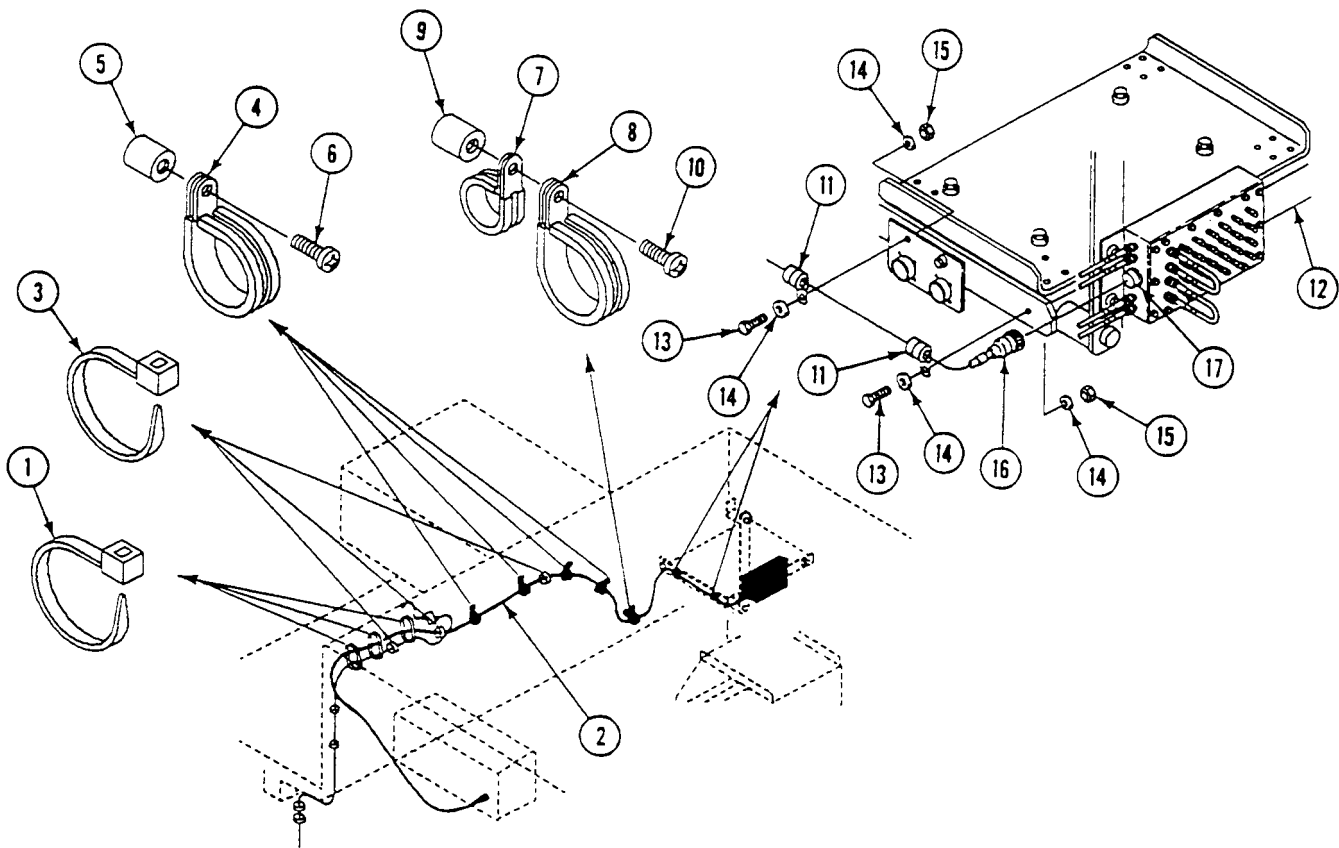
INSTALLATION

1. Connect cable W124 plug P109 (10) to Patch Panel Box A10 jack J140 (11).
2. Install clamp (6) on cables (9).
3. Secure clamp (7) and clamp (6) to weldnut (8) below Patch Panel Box A10 (4) with screw (5).
4. Install clamp (2) on cables (9) and secure to weldnut (3) near end of Patch Panel Box A10 (4) with screw (1).



REPLACE CABLE W124 (M1068A3 ONLY) — Continued**0855 00**

5. Install three new straps (1) on cables (2).
6. Install three new straps (3) on cables (2).
7. Install four clamps (4) on cables (2) and secure to weldnuts (5) with screws (6).
8. Install clamp (7) on cables (2).
9. Secure clamp (8) and clamp (7) to weldnut (9) with screw (10).
10. Install two clamps (11) on cables (2) and secure to APIU rack (12) with two screws (13), four washers (14), and two new locknuts (15).
11. Connect cable W124 plug P1 (16) to Data Panel Assembly A12 jack J3 (17).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE CABLE W126 (M1068A3 ONLY)

0856 00

THIS WORK PACKAGE COVERS:

Removal (page 0856 00-1).
 Installation (page 0856 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Equipment Condition

Engine stopped (see your -10)

Personnel Required

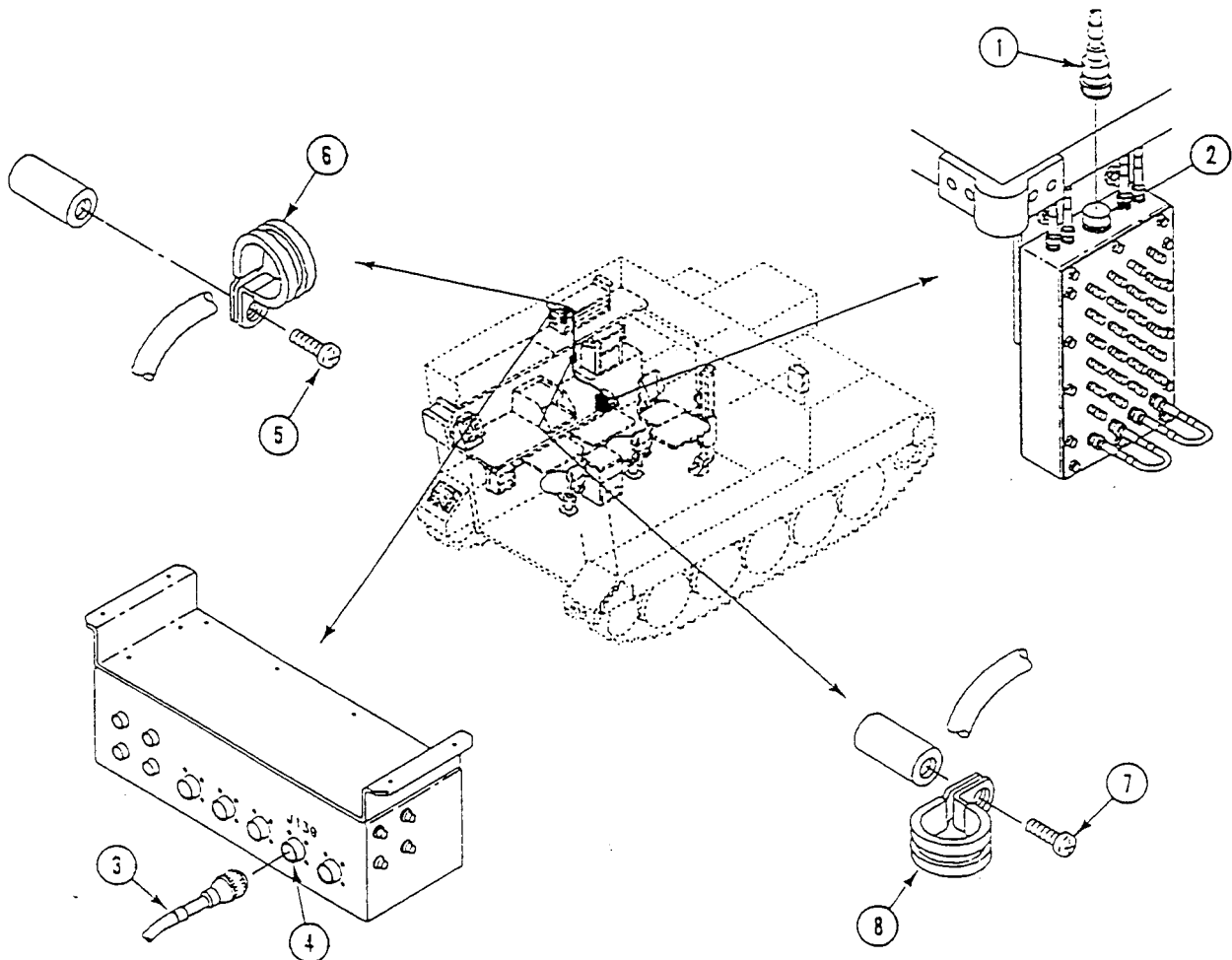
Signal Support System Specialist 31U10

Carrier blocked (see your -10)

Battery ground lead disconnected (WP 0338 00)

REMOVAL

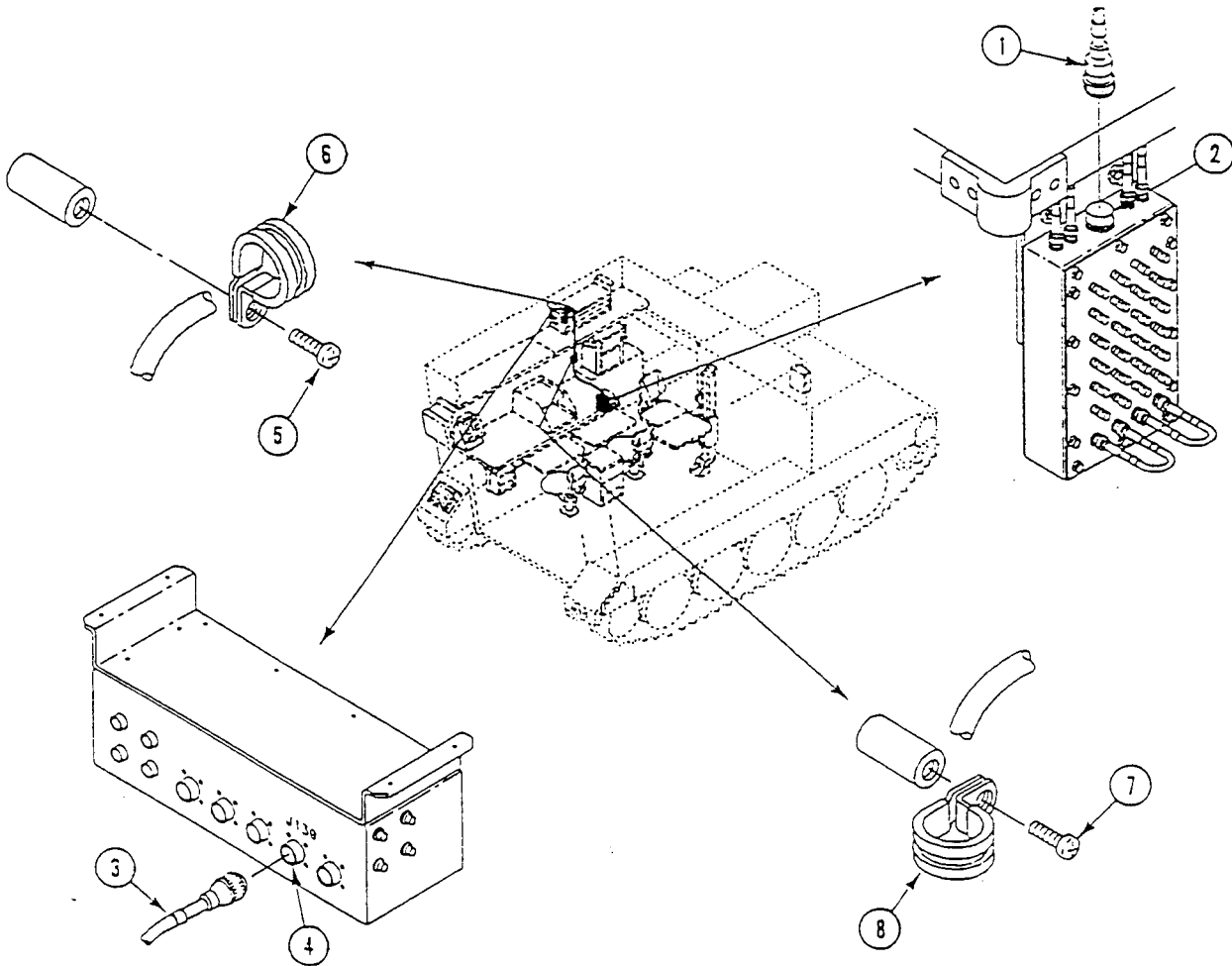
1. Disconnect cable plug W126P1 (1) from data panel assembly jack A13J3 (2).



REPLACE CABLE W126 (M1068A3 ONLY) — Continued

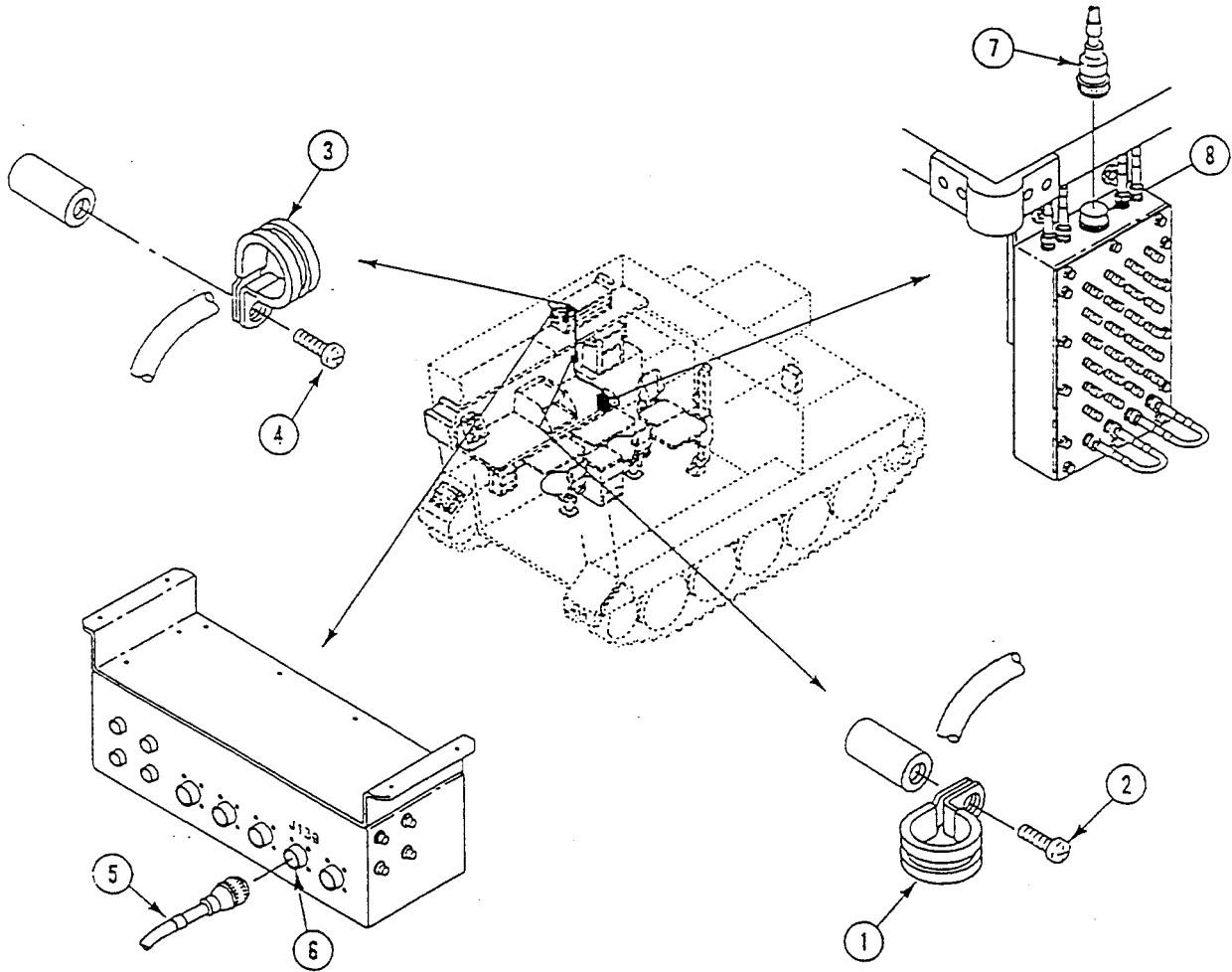
0856 00

2. Disconnect cable plug W126P108 (3) from patch panel box jack A10J139 (4).
3. Remove screw (5) and clamp (6) from cables.
4. Remove screw (7) and clamp (8) from cables. Remove cable W126 from other cables.



INSTALLATION

1. Position cable W126 with other cables and secure with clamp (1) and screw (2).
2. Install clamp (3) and screw (4) on cables.
3. Connect cable plug W126P108 (5) to patch panel box jack A10J139 (6).
4. Connect cable plug W126P1 (7) to data panel assembly jack A13J3 (8).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE AC CABLE ASSEMBLY (W252) (M1068A3 ONLY)

0857 00

THIS WORK PACKAGE COVERS:

Removal (page 0857 00-1).
 Installation (page 0857 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit WP 0926 00, Item 65

Equipment Condition

Materials/Parts

Strap (2)

Strap (6)

Engine stopped (see your -10)

Carrier blocked (see your -10)

All external power disconnected

(TM 11-7010-256-12&P)

Personnel Required

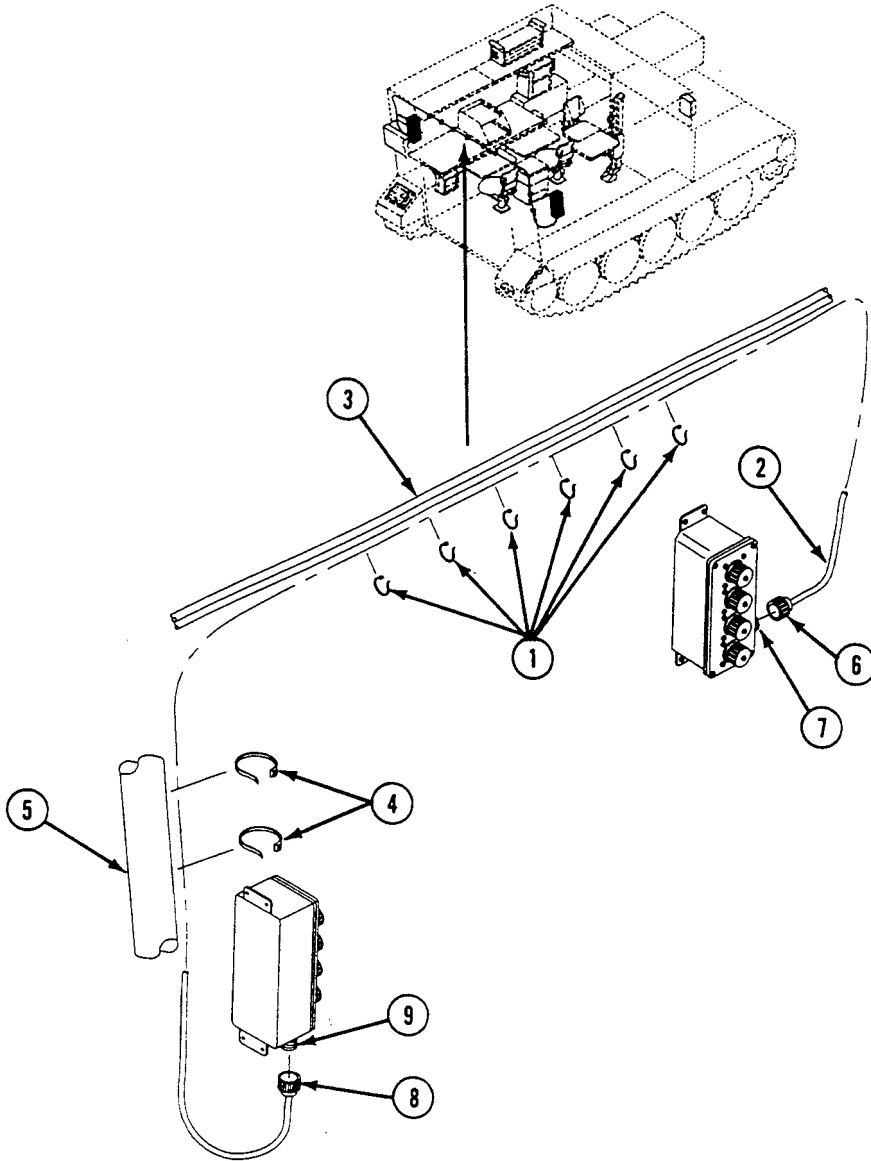
Unit Mechanic

Battery ground lead disconnected (WP 0338 00)

REMOVAL

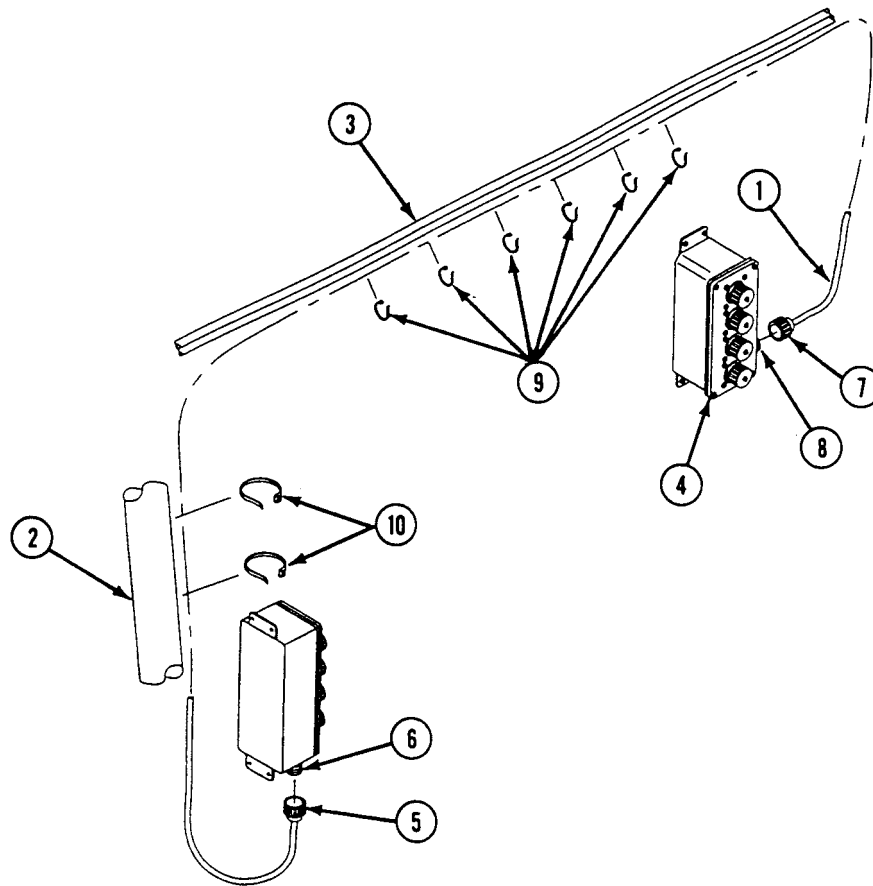
1. Remove 6 straps (1) and cable W252 (2) from existing wiring harness (3) along top rear hull. Discard straps.
2. Remove two straps (4) and cable W252 (2) from fuel filler tube (5). Discard straps
3. Disconnect cable W252 plug P1 (6) from AC power extension box A18 jack J1 (7).
4. Disconnect cable W252 plug P2 (8) from AC power extension box A19 jack J15 (9).

5. Remove cable W252 (2) from carrier.



INSTALLATION

1. Install cable W252 (1) in carrier. Route cable along fuel filler tube (2), along the rear wiring harness (3) across the rear top of hull, and down to power extension box A18 (4).
2. Connect cable W252 plug P2 (5) to AC power extension box A19 jack J15 (6).
3. Connect cable W252 plug P1 (7) to power extension box A18 jack J1 (8).
4. Secure cable W252 (1) to rear wiring harness (3) above ramp with 6 new straps (9) and to fuel filler tube (2) with two new straps (10).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

CHAPTER 25

UNIT MAINTENANCE INSTRUCTIONS
FOR GAUGES

WORK PACKAGE INDEX

<u>Title</u>	<u>Sequence No.</u>
SERVICE SPEEDOMETER/TACHOMETER CABLE FLEXIBLE CORE.....	0858 00
REPLACE SPEEDOMETER.....	0859 00
REPLACE SPEEDOMETER CABLE AND ADAPTER.....	0860 00
REPAIR SPEEDOMETER CABLE.....	0861 00
REPLACE TACHOMETER.....	0862 00
REPLACE TACHOMETER ENGINE ADAPTER.....	0863 00
REPLACE TACHOMETER CABLE.....	0864 00
REPAIR TACHOMETER CABLE.....	0865 00

SERVICE SPEEDOMETER/TACHOMETER CABLE FLEXIBLE CORE

0858 00

THIS WORK PACKAGE COVERS:

Removal (page 0858 00-1).
 Installation (page 0858 00-5).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

References

See your -10

Materials/Parts

Grease (WP 0928 00, Item 11)
 Gasket
 Lockwasher (2)
 Preformed packing

Equipment Condition

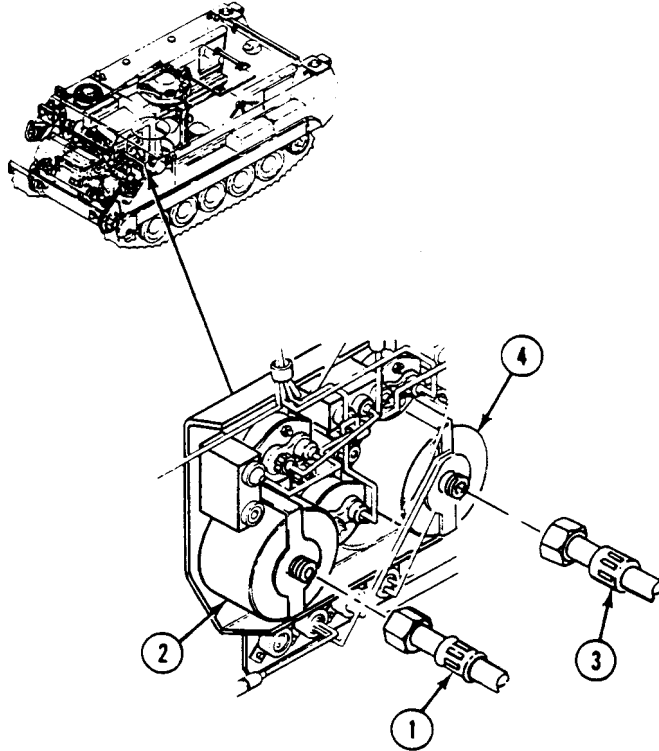
MASTER SWITCH OFF (see your -10)
 Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Power plant front access door opened (see your -10)
 Driver's power plant access panel removed (see your-10)

REMOVAL

NOTE

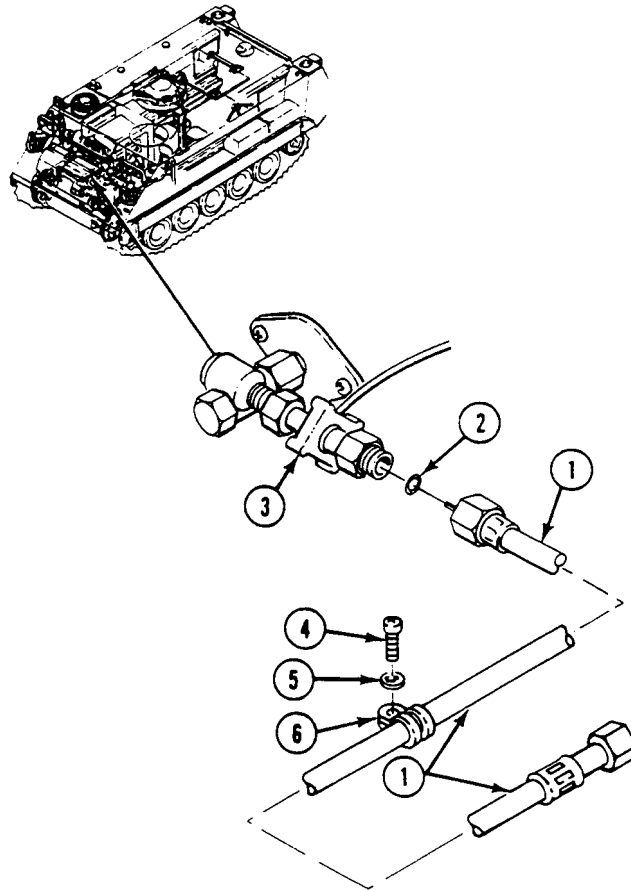
This task applies to BOTH tachometer cable assembly and speedometer cable assembly core servicing. Perform only those steps that refer to cable that requires servicing.

1. Disconnect tachometer cable (1) from gauge (2) and/or speedometer cable (3) from gauge (4).

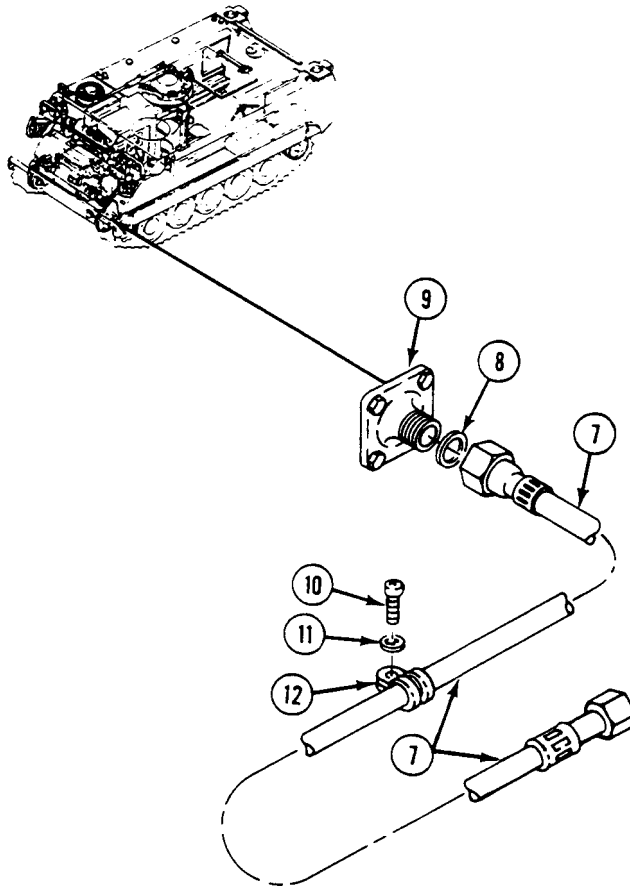


2. Remove tachometer cable (1) and gasket (2) from STE/ICE unit (3). Discard gasket.

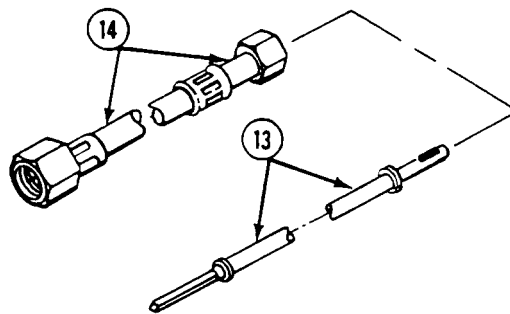
3. Remove screw (4), lockwasher (5), and clamp (6) from tachometer cable (1). Discard lockwasher.



4. Remove speedometer cable (7) and preformed packing (8) from final drive adapter (9). Discard packing.
5. Remove screw (10), lockwasher (11), and clamp (12) from speedometer cable (7). Discard lockwasher.



6. Remove core (13) from cable housing (14). If core does not come out freely, replace cable assembly (WP 0860 00) or (WP 0864 00).

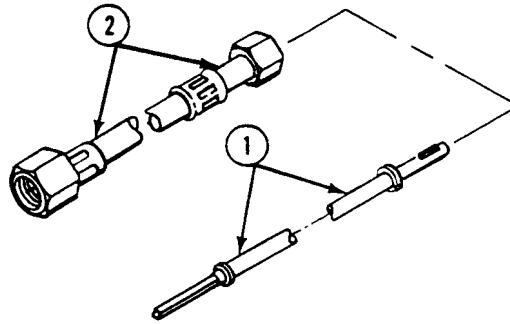


INSTALLATION

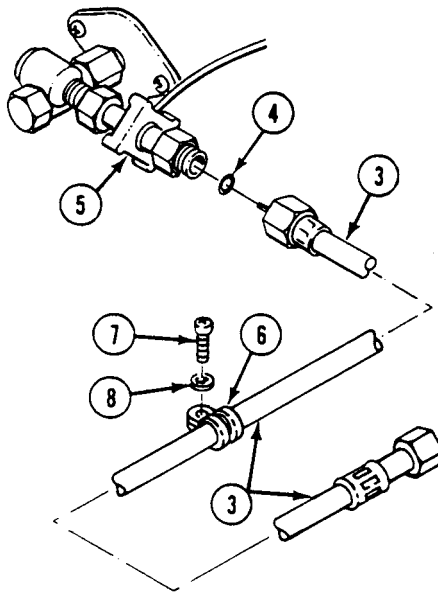
NOTE

Grease lube gun may be used in following step.

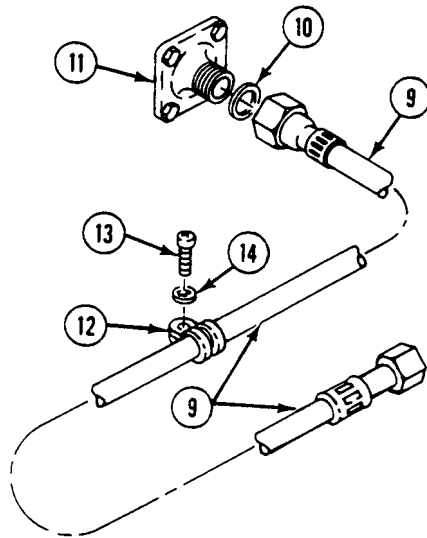
1. Apply grease to core (1).
2. Install core (1) in cable housing (2) with rotating motion.



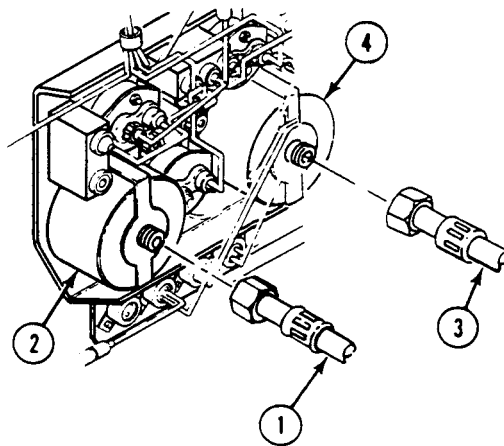
3. Install tachometer cable (3) and new gasket (4) on STE/ICE unit (5).
4. Install clamp (6) on tachometer cable (3). Secure with screw (7) and new lockwasher (8).



5. Install speedometer cable (9) and new preformed packing (10) on final drive adapter (11).
6. Install clamp (12) on speedometer cable (9). Secure with screw (13) and new lockwasher (14).



7. Connect tachometer cable (1) to gauge (2) and/or speedometer cable (3) to gauge (4).



8. Start engine (see your -10).
9. Operate carrier to check that tachometer gauge works properly. Tachometer needle should not pulsate.
10. Operate carrier to check that speedometer gauge works properly.
11. Stop engine (see your -10).
12. If gauges do not operate properly, repeat task. If problem is not corrected, remove cable assembly (WP 0860 00) or (WP 0864 00).

FOLLOW-THROUGH STEPS

1. Install driver's power plant access panel (see your -10).
2. Close power plant front access door (see your -10).

END OF TASK

REPLACE SPEEDOMETER

0859 00

THIS WORK PACKAGE COVERS:

- Removal (page 0859 00-1).
- Installation (page 0859 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)

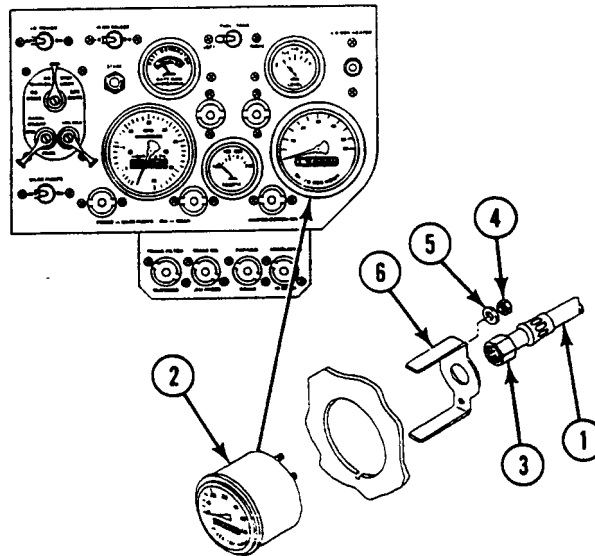
Personnel Required

Unit Mechanic

Carrier blocked (see your -10)

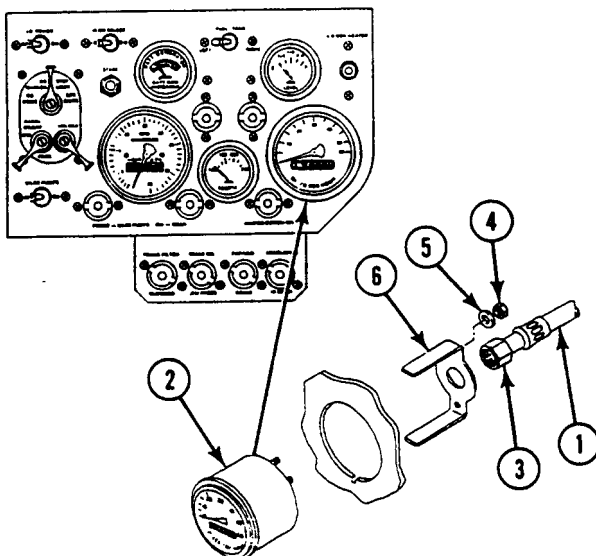
REMOVAL

1. Disconnect speedometer cable (1) from rear of speedometer (2) by loosening nut (3).
2. Remove two nuts (4), lockwashers (5), and bracket (6) from rear of speedometer (2).
3. Remove speedometer (2) from front of instrument panel.



INSTALLATION

1. Install speedometer (2) in front of instrument panel.
2. Install bracket (6) on rear of speedometer (2) and secure with two lockwashers (5) and nuts (4).
3. Connect speedometer cable (1) to rear of speedometer (2), and tighten nut (3).

**FOLLOW-THROUGH STEPS**

1. Unblock carrier (see your -10).
2. Road test carrier (WP 0155 00) to check for proper installation of speedometer.
3. Block carrier (see your -10).

END OF TASK

REPLACE SPEEDOMETER CABLE AND ADAPTER

0860 00

THIS WORK PACKAGE COVERS:

Removal (page 0860 00-1).
 Installation (page 0860 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant front door open (TM 9-2350-277-10)

Hull front access cover removed (WP 0449 00)

Materials/Parts

Adapter

Cable

Lockwasher

Preformed packing

Tab washer (4)

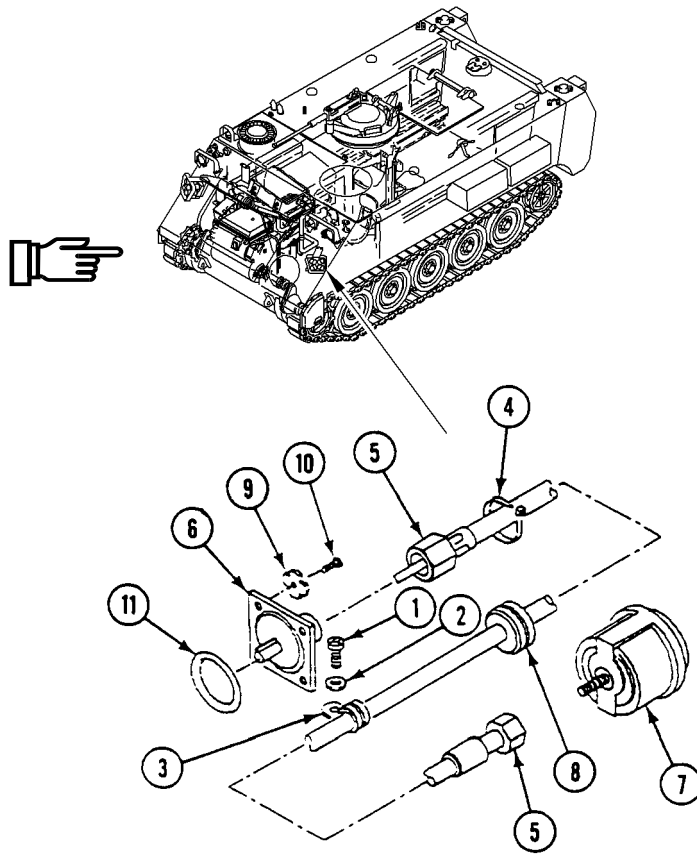
Strap

REMOVAL

REPLACE SPEEDOMETER CABLE AND ADAPTER — Continued

0860 00

1. Remove screw (1), lockwasher (2), and clamp (3) from bulkhead weldnut.
2. Remove strap (4) securing speedometer cable (5) to bilge pump hose. Discard strap.
3. Disconnect speedometer cable (5) from final drive adapter (6) and speedometer (7). Remove cable from clamp (3) and grommet (8). Discard grommet.
4. Straighten four tab washers (9). Remove four screws (10), tab washers (9), and final drive adapter from final drive. Discard tab washers.
5. Remove preformed packing (11) from adapter (6). Discard packing.



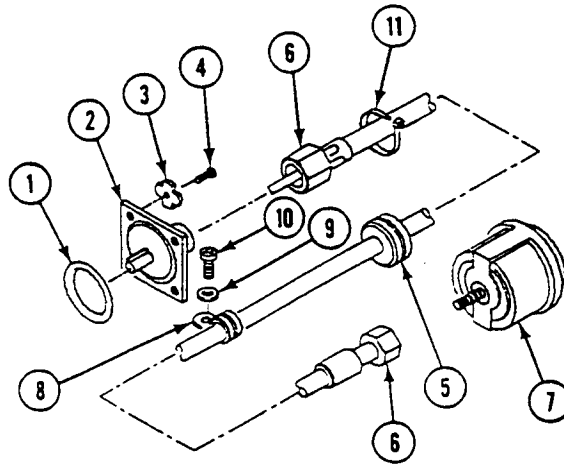
INSTALLATION

1. Place new preformed packing (1) on new final drive adapter (2).
2. Install adapter (2) on final drive, and secure with four tab washers (3) and screws (4). Bend tabs on each washer.

NOTE

Remove clamp and install new cable.

3. Install new grommet (5) on new cable (6) and route cable through driver's compartment bulkhead.
4. Install grommet (5) in bulkhead.
5. Connect speedometer cable (6) to final drive adapter (2) and speedometer (7).
6. Align clamp (8) with bulkhead weldnut and secure with new lockwasher (9) and screw (10).
7. Install new strap (11) to secure cable (6) to bilge pump hose.

**FOLLOW-THROUGH STEPS**

1. Install hull front access cover (WP 0449 00).
2. Close power plant front door. See TM 9-2350-277-10.

END OF TASK

REPAIR SPEEDOMETER CABLE

0861 00

THIS WORK PACKAGE COVERS:

- Disassembly (page 0861 00-1).
- Inspection (page 0861 00-1).
- Assembly (page 0861 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

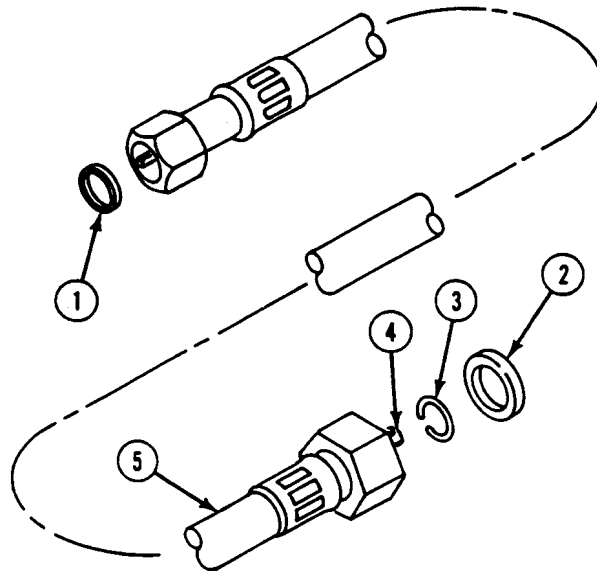
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Hull front access cover removed (WP 0449 00)
- Speedometer cable removed (WP 0860 00)

Materials/Parts

- Grease (WP 0928 00, Item 12)
- Cable core
- Gasket

DISASSEMBLY

1. Remove gasket (1), flat washer (2), slotted washer (3), and cable core (4) from cable housing (5). Discard gasket and cable core.

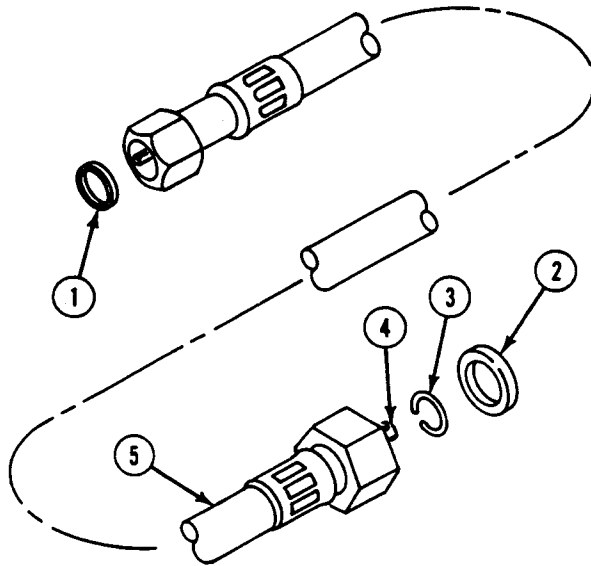


INSPECTION

1. Inspect cable housing. If damaged, replace complete cable assembly (WP 0860 00).

ASSEMBLY

1. Coat cable core (4) with grease.
2. Push new cable core (4) into cable housing (5).
3. Install new gasket (1) and flat washer (2) in cable housing (5).
4. Install slotted washer (3) on cable core (4) at final drive adapter end.
5. Connect speedometer cable to final drive adapter and speedometer (WP 0860 00).

**FOLLOW-THROUGH STEPS**

1. Install speedometer cable (WP 0860 00).
2. Install hull front access cover (WP 0449 00).
3. Close power plant access door. See TM 9-2350-277-10.

END OF TASK

REPLACE TACHOMETER

0862 00

THIS WORK PACKAGE COVERS:

Removal (page 0862 00-1).
 Installation (page 0862 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)

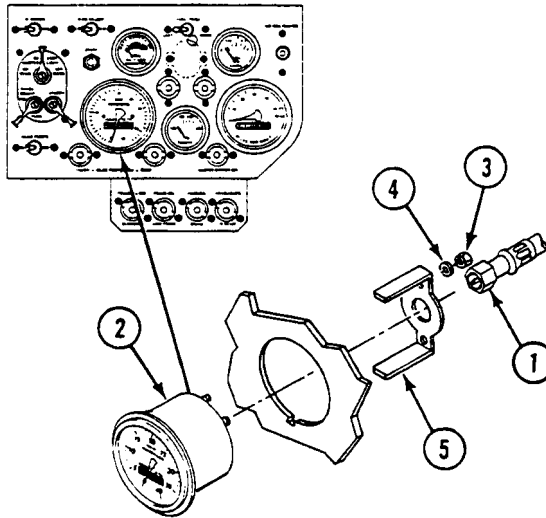
Personnel Required

Unit Mechanic

Carrier blocked (see your -10)

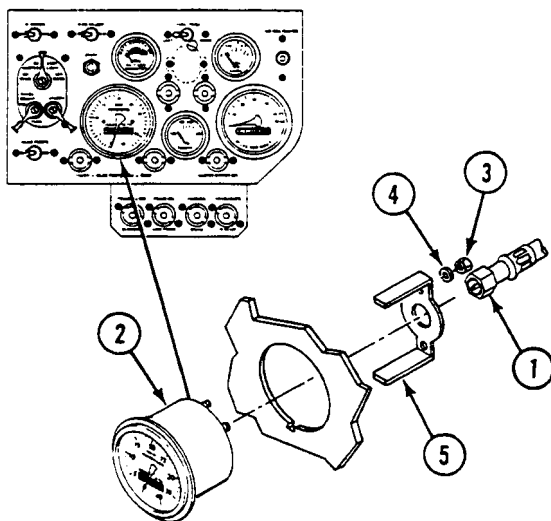
REMOVAL

1. Disconnect tachometer cable (1) from rear of tachometer (2)
2. Remove two nuts (3), lockwashers (4), and bracket (5) from rear of tachometer (2).
3. Remove tachometer (2) from front of instrument panel.



INSTALLATION

1. Install tachometer (2) in front of instrument panel.
2. Install bracket (5) on rear of tachometer (2) and secure with two lockwashers (4) and nuts (3).
3. Connect tachometer cable (1) to rear of tachometer (2).

**FOLLOW-THROUGH STEPS**

1. Turn MASTER SWITCH ON (see your -10).
2. Start engine (see your -10).
3. Check tachometer (see your -10).
4. Stop engine (see your -10).

END OF TASK

REPLACE TACHOMETER ENGINE ADAPTER

0863 00

THIS WORK PACKAGE COVERS:

Removal (page 0863 00-1).
Installation (page 0863 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Driver's power plant access panel removed
(TM 9-2350-277-10)

Power plant front access door open (TM 9-2350-277-10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Materials/Parts

Gasket

Personnel Required

Unit Mechanic

REMOVAL

WARNING

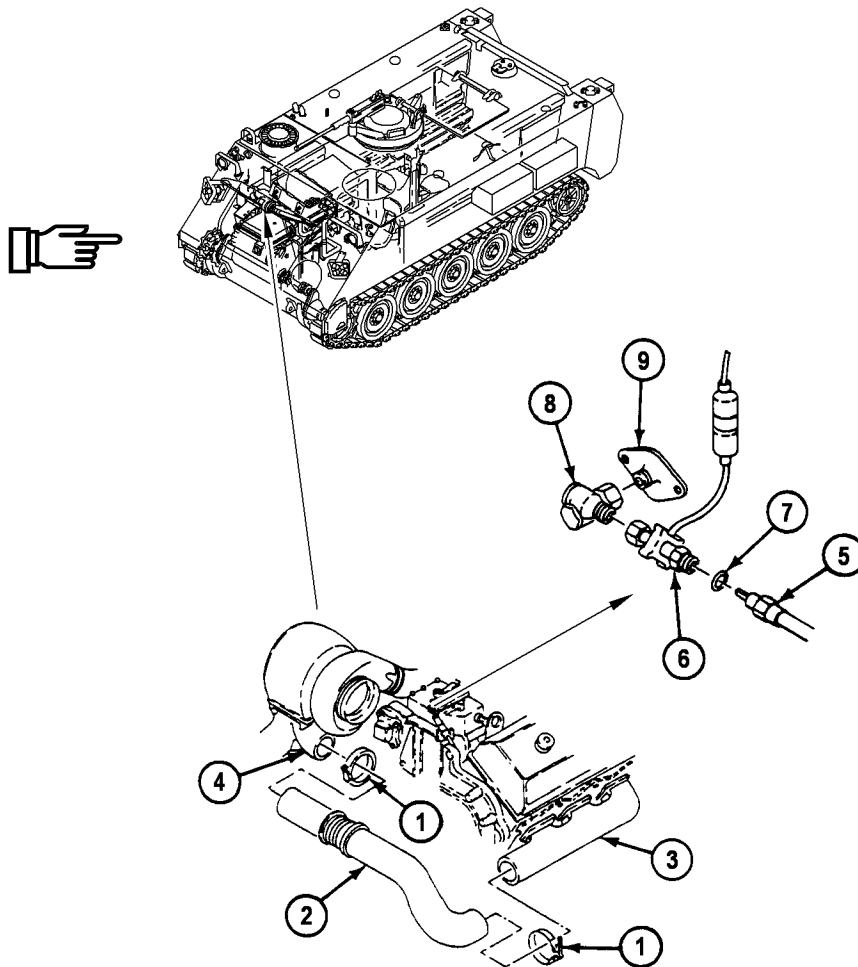


Hot exhaust pipes can burn you. Let power unit cool before you start work.

REPLACE TACHOMETER ENGINE ADAPTER — Continued

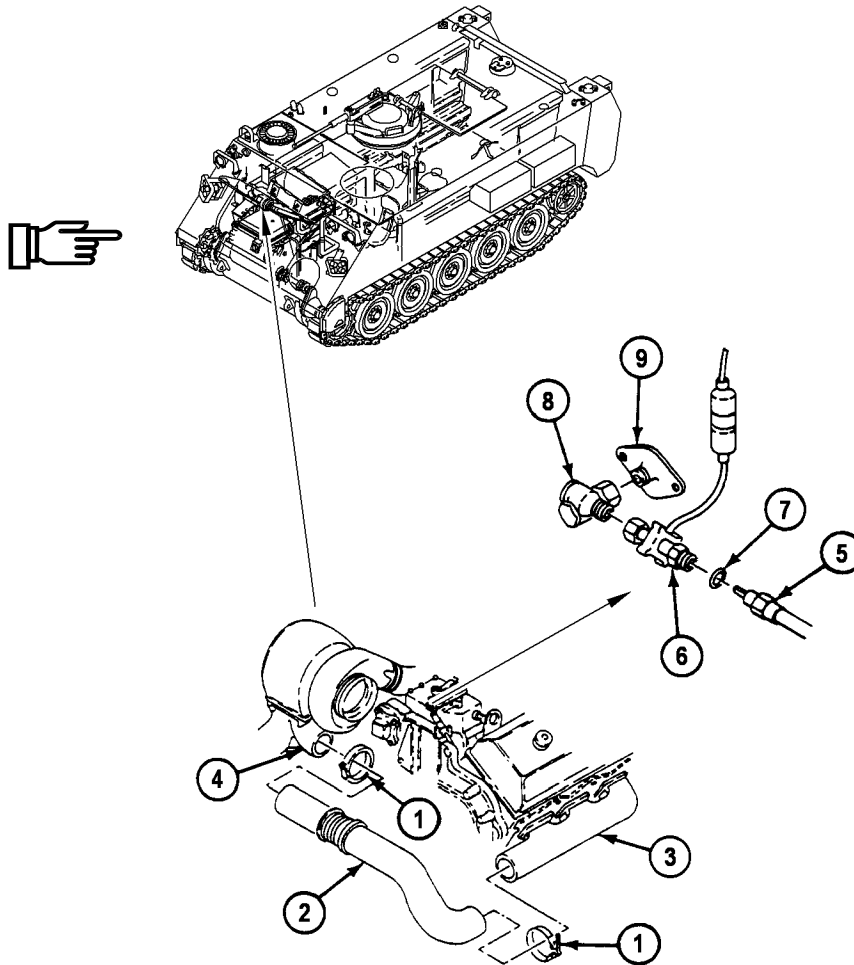
0863 00

1. Remove two clamps (1) from elbow (2). Remove elbow from exhaust manifold (3) and crossover pipe (4).
2. Remove tachometer cable assembly (5) from MSD/ICE unit (6). Slide jam nut (7) back on cable and remove gasket (8) from cable. Discard gasket.
3. Remove MSD/ICE unit (6) from tachometer engine adapter (8).
4. Remove tachometer engine adapter (8) from engine mounting bracket (9).



INSTALLATION

1. Install tachometer engine adapter (8) on mounting bracket (9).
2. Install MSD/ICE unit (6) on tachometer engine adapter (8).
3. Install new gasket (7) on tachometer cable assembly (5) and slide jam nut forward. Connect tachometer cable assembly to MSD/ICE unit (6).
4. Position elbow (2) between exhaust manifold (3) and crossover pipe (4). Secure with two clamps (1).

**FOLLOW-THROUGH STEPS**

1. Start engine. See TM 9-2350-277-10.
2. Check tachometer for proper operation. Tachometer needle should not pulsate.
3. Check exhaust system for leaks.
4. Stop engine. See TM 9-2350-277-10.
5. Close power plant front access door. See TM 9-2350-277-10.
6. Install driver's power plant access panel. See TM 9-2350-277-10.

END OF TASK

REPLACE TACHOMETER CABLE

0864 00

THIS WORK PACKAGE COVERS:

Removal (page 0864 00-1).
 Installation (page 0864 00-5).

INITIAL SETUP:

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Driver's power plant access panel removed
 (TM 9-2350-277-10)

Materials/Parts

Gasket

Grommet

Lockwasher (4)

Power plant front access door open (TM 9-2350-277-10)

Hull front access cover removed (WP 0449 00)

Personnel Required

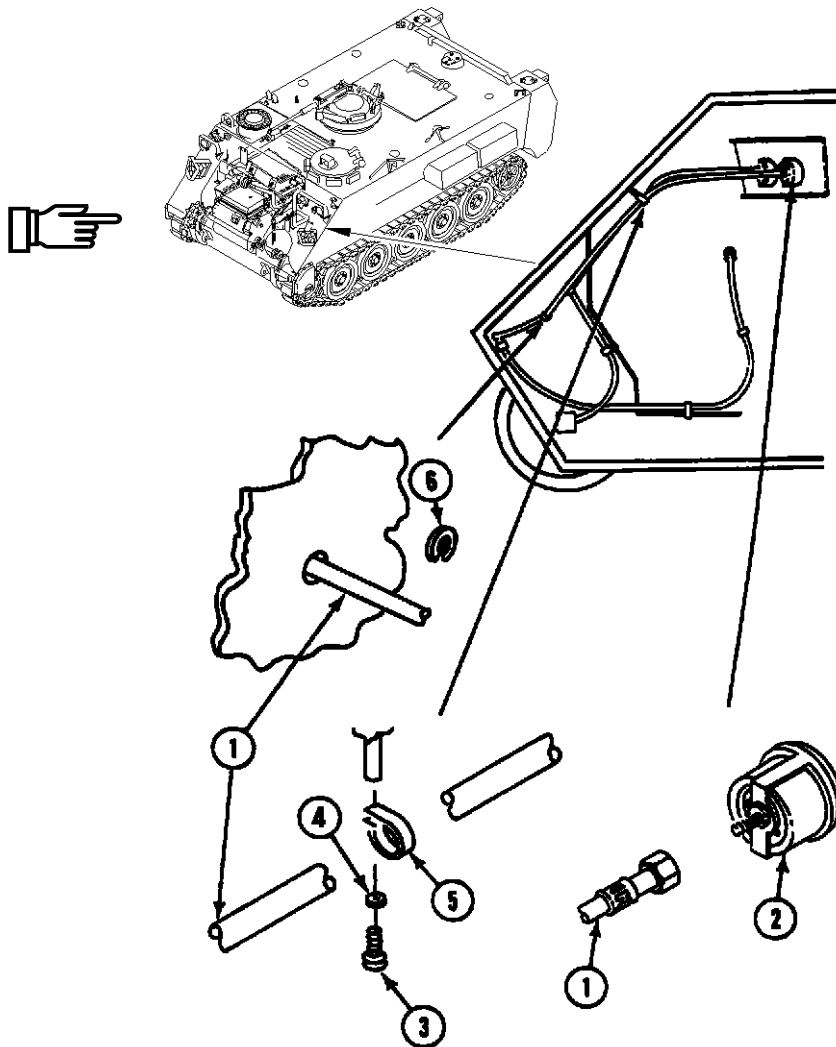
Unit Mechanic

REMOVAL

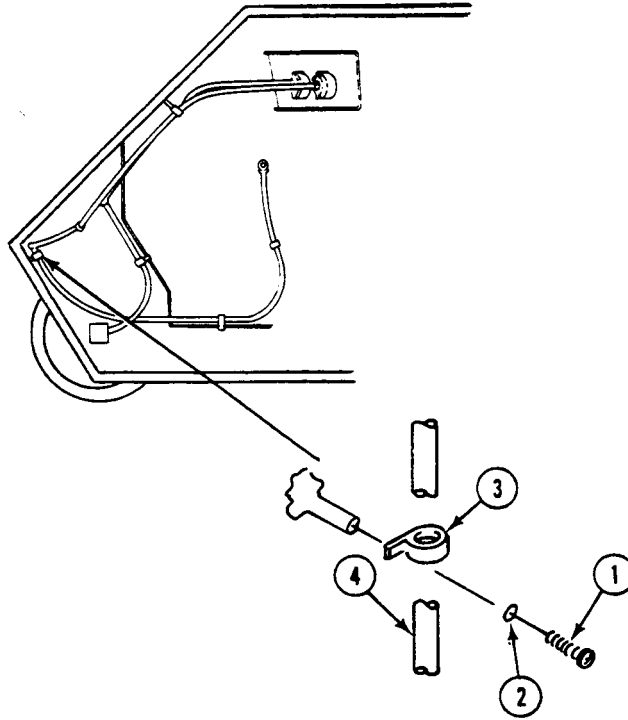
REPLACE TACHOMETER CABLE — Continued

0864 00

1. Disconnect cable (1) from gauge (2).
2. Remove screw (3), lockwasher (4), and clamp (5) from cable (1). Discard lockwasher.
3. Route cable (1) through bulkhead. Remove grommet (6) from bulkhead. Discard grommet.

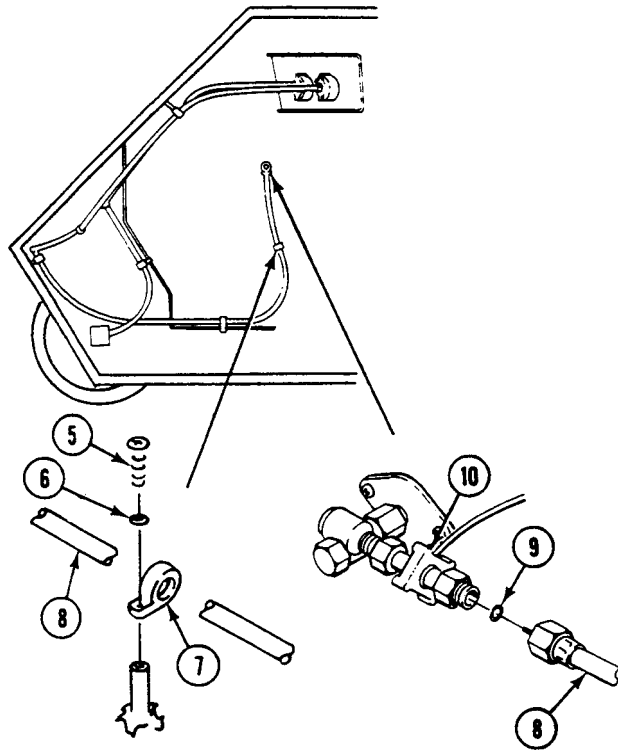


4. Remove screw (1), lockwasher (2), and clamp (3) from cable (4). Discard lockwasher.



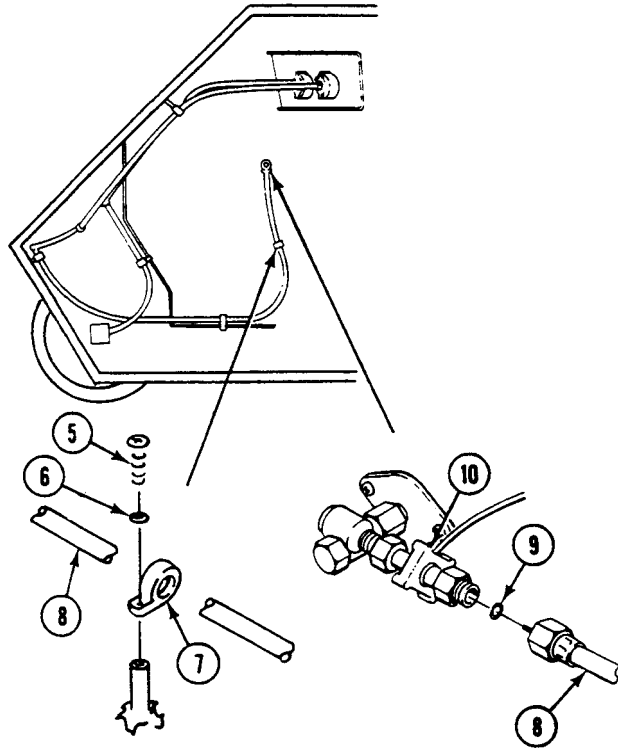
5. Remove two screws (5), lockwashers (6), and clamps (7) from cable (8). Discard lockwashers.

6. Remove cable (8) and gasket (9) from MSD/ICE unit (10). Discard gasket.

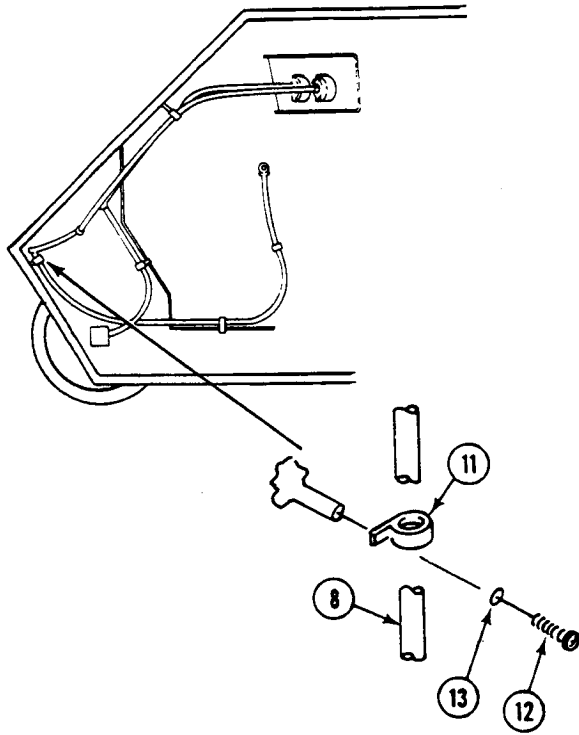


INSTALLATION

1. Connect cable (8) and new gasket (9) on MSD/ICE unit (10).
2. Install two clamps (7) on cable (8). Secure with two new lockwashers (6) and screws (5).



3. Install clamp (11) on cable (8). Secure with screw (12) and new lockwasher (13).

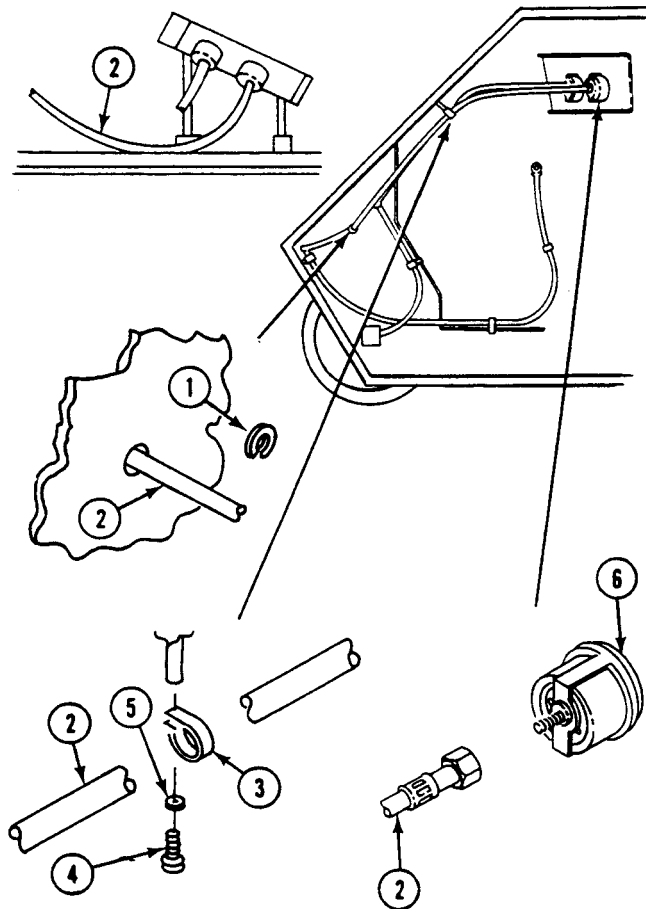


4. Install new grommet (1) on cable (2). Route cable through bulkhead and install grommet in bulkhead.

NOTE

Place cable as close to carrier wall as possible to obtain maximum bend. All other cables must be placed in front of tachometer cable.

5. Install clamp (3) on cable (2). Secure with screw (4) and new lockwasher (5).
6. Connect cable (2) to gauge (6).



FOLLOW-THROUGH STEPS

1. Install hull front access cover (WP 0449 00).
2. Install driver's power plant access panel. See TM 9-2350-277-10.
3. Close power plant front access door. See TM 9-2350-277-10.

END OF TASK

REPAIR TACHOMETER CABLE

0865 00

THIS WORK PACKAGE COVERS:

- Disassembly (page 0865 00-1).
- Inspection (page 0865 00-1).
- Assembly (page 0865 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

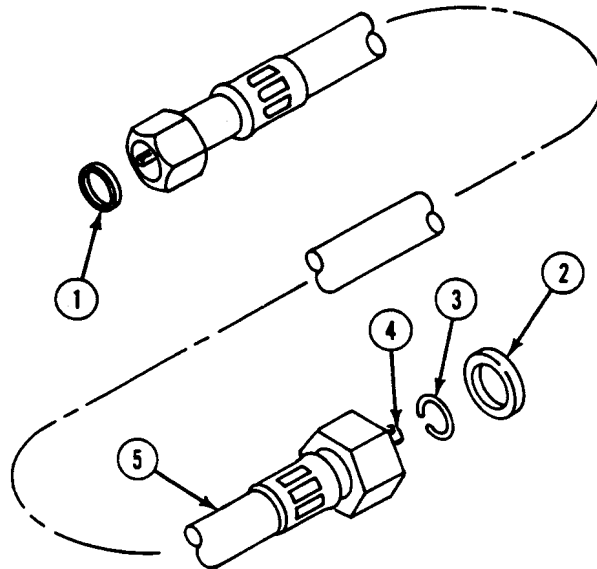
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Hull front access cover removed (WP 0449 00)
- Tachometer cable removed (WP 0864 00)

Materials/Parts

- Grease (WP 0928 00, Item 12)
- Cable core
- Gasket

DISASSEMBLY

1. Remove gasket (1), flat washer (2), slotted washer (3), and core (4) from cable housing (5). Discard gasket and core.

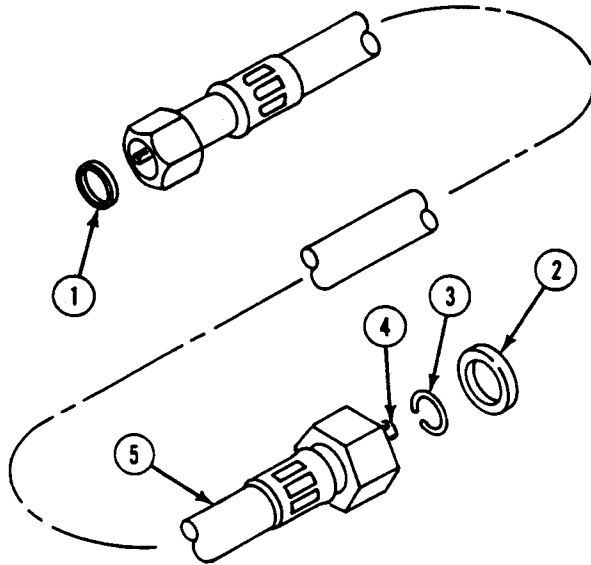


INSPECTION

1. Inspect cable housing. If damaged, replace complete cable assembly (WP 0864 00).

ASSEMBLY

1. Coat new core (4) with grease.
2. Install core (4) in cable housing (5).
3. Install new gasket (1) and flat washer (2) in cable housing (5).
4. Install slotted washer (3) on cable core (4) at engine adapter end.

**FOLLOW-THROUGH STEPS**

1. Install tachometer cable (WP 0864 00).
2. Install hull front access cover (WP 0449 00).
3. Close power plant access door. See TM 9-2350-277-10.

END OF TASK

CHAPTER 27

UNIT MAINTENANCE INSTRUCTIONS
FOR PRECISION INSTRUMENTS AND SYSTEMS

WORK PACKAGE INDEX

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REPLACE DRIVER'S VISION ENHANCER (DVE) AN/VAS-5 POWER SUPPLY CABLE.....	0866 04
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REPLACE MSD/ICE SHUNT GUARD (M113A3 AND M1059A3 ONLY).....	0868 00
DELETED.....	0869 00
REPLACE MSD/ICE SHUNT (M113A3 AND M1059A3 ONLY).....	0870 00
REPLACE MSD/ICE SHUNT (M577A3 AND M1068A3 ONLY).....	0871 00
DELETED.....	0872 00
REPLACE MSD/ICE SHUNT (M1064A3 ONLY).....	0873 00
REPLACE MSD/ICE DISTRIBUTION BOX (M113A3 AND M1059A3 ONLY).....	0874 00
REPLACE MSD/ICE DISTRIBUTION BOX (M577A3 AND M1068A3 ONLY).....	0875 00
DELETED.....	0876 00
REPLACE MSD/ICE DISTRIBUTION BOX (M1064A3 ONLY).....	0877 00
REPLACE MSD/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY).....	0878 00
REPLACE MSD/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY).....	0879 00
DELETED.....	0880 00
REPLACE MSD/ICE CREW WIRING HARNESS (M1064A3 ONLY).....	0881 00
REPLACE MSD/ICE ENGINE WIRING HARNESS.....	0882 00

REPLACE DVE SENSOR SET ASSEMBLY POWER CABLE

0866 01

THIS WORK PACKAGE COVERS:

- Removal (page 0866 01-1).
- Test and Inspection (page 0866 01-1).
- Installation (page 0866 01-2).

INITIAL SETUP:

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-277-10)

DVE switch off (TM 9-2350-277-10)

Sensor set assembly removed (TM 9-2350-277-10)

Tools and Special Tools

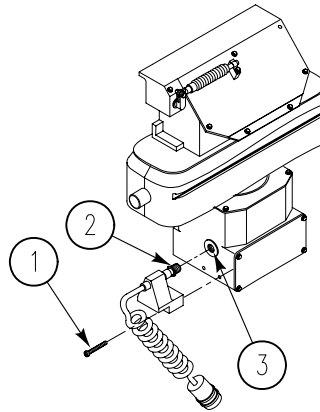
General Mechanic's Tool Kit (WP 0926 00, Item 65)

Personnel Required

Unit Mechanic

REMOVAL

1. Remove two screws (1) securing power cable (2) to sensor set assembly (3).
2. Carefully remove power cable (2) connector P1 from jack on sensor set assembly(3).

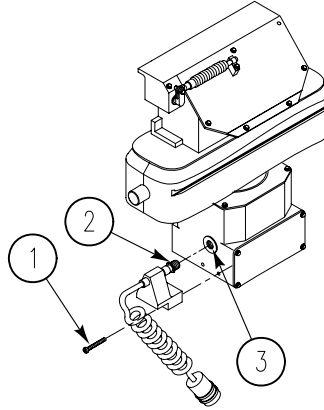


TEST AND INSPECTION

1. Check pin to pin continuity of power cable. If power cable fails continuity test or is damaged, discard power cable.

INSTALLATION

1. Install power cable (2) connector P1 into jack on sensor set assembly (3).
2. Secure power cable (2) to sensor set assembly (3) with two screws (1).

**FOLLOW-THROUGH STEPS**

1. Install sensor set assembly in driver's hatch and operate DVE. See TM 9-2350-277-10.
2. After operation remove and stow. See TM 9-2350-277-10.

END OF TASK

REPLACE DRIVER’S DISPLAY MOUNTING BRACKET (DVE)

0866 02

THIS WORK PACKAGE COVERS:

- Removal (page 0866 02-1).
- Installation (page 0866 02-5).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic’s Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

DVE switch off (TM 9-2350-277-10)

Driver’s center periscope removed (TM 9-2350-277-10)

Materials/Parts

Lockwasher (3)

REMOVAL

NOTE

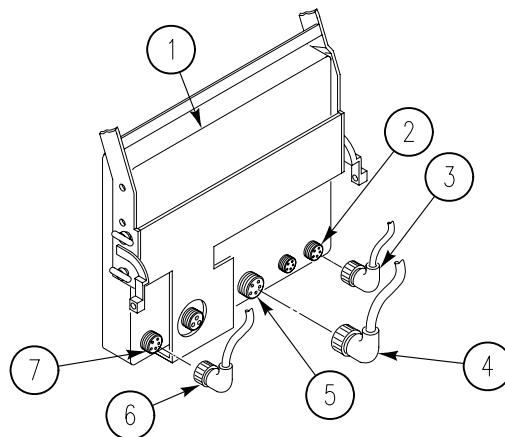
The DVE in your vehicle may or may not have the commander’s display (M58 only) mounting bracket installed. This task covers both configurations.

NOTE

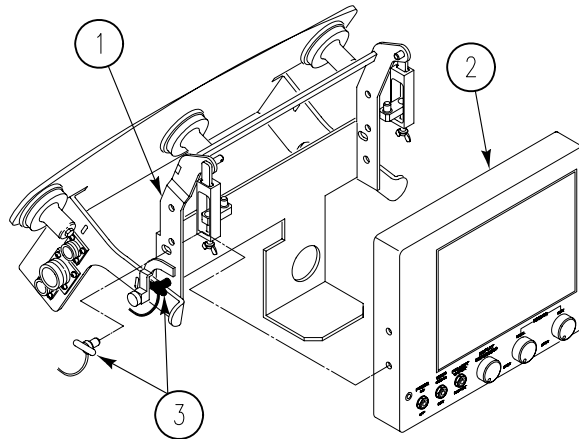
If removing driver’s/commander’s display mounting bracket, do Steps 1 - 5.

If removing driver’s display mounting bracket, do Steps 6 - 10.

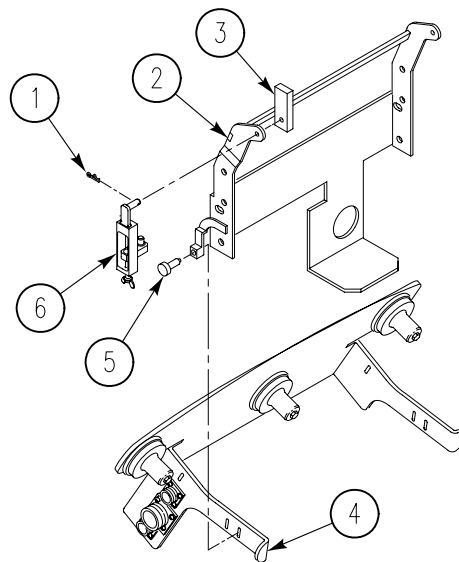
1. If commander’s display (M58 only) is installed in vehicle, remove connector W3P1 (6) from connector A1J5 (7) connector W2P2 (4) from connector A1J2 (5), and connector 516B P2 (3) from connector A1J1 (2) on driver’s display (1).



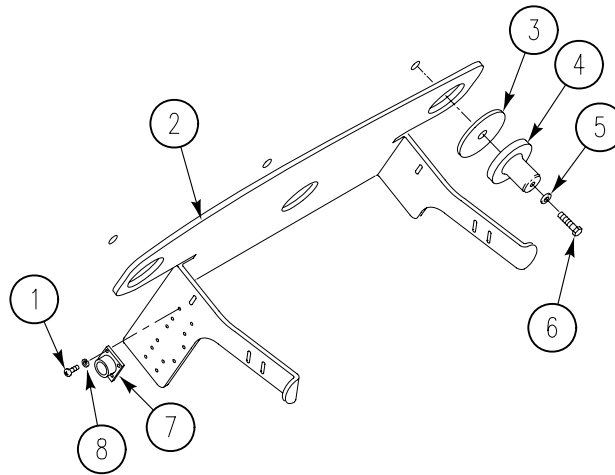
2. While holding driver's display (2), remove four knobs (3) and driver's display (2) from bracket (1).



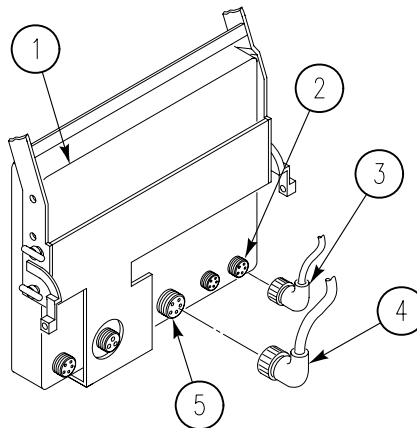
3. Remove two quick release plungers (5) securing bracket (2) to guide (4).
4. Remove two clips (1), supports (6), and bracket (2) from lugs (3).



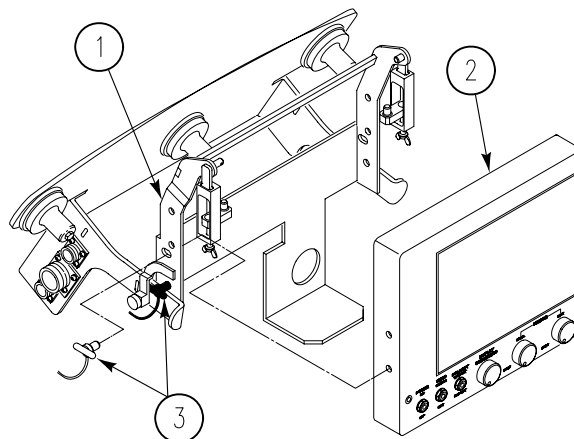
- Remove three screws (6), lockwashers (5), clamps (4), guide (2), and three pads (3) from bulkhead. Discard lockwashers.



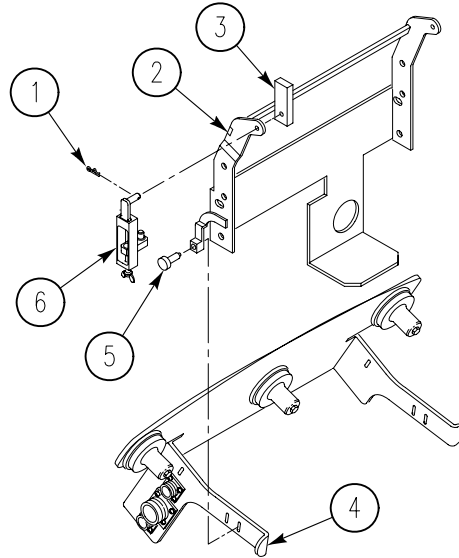
- If commander's display (M58 only) is not installed in vehicle, remove connector W2P2 (4) from connector A1J2 (5) and connector 516B P2(3) from connector A1J1 (2) on driver's display (1).



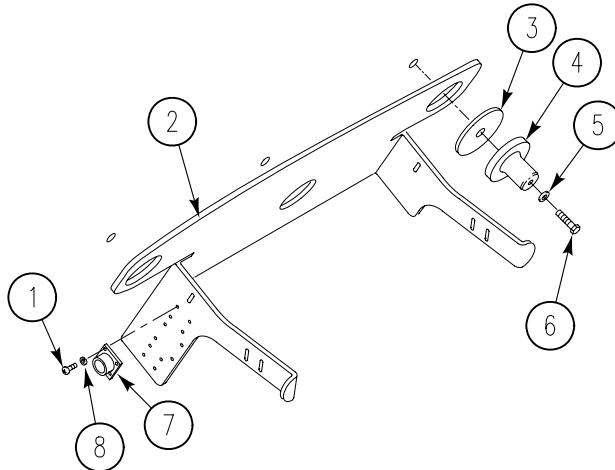
- While holding driver's display (2), remove four knobs (3) and driver's display (2) from bracket (1).



8. Remove two quick release plungers (5) securing bracket (2) to guide (4).
9. Remove two clips (1), supports (6), and bracket (2) from lugs (3).



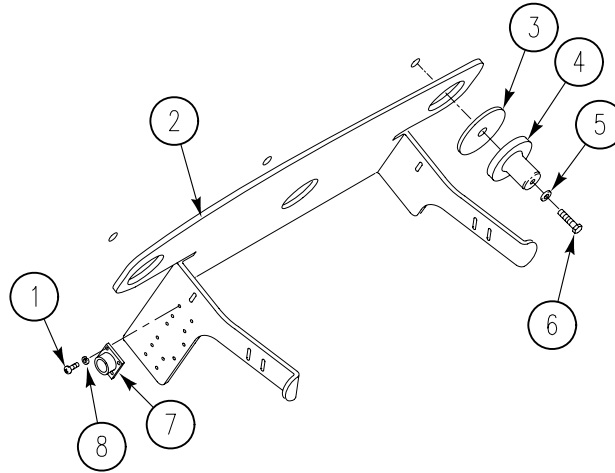
10. Remove three screws (6), lockwashers (5), clamps (4), guide (2), and three pads (3) from bulkhead. Discard lockwashers.



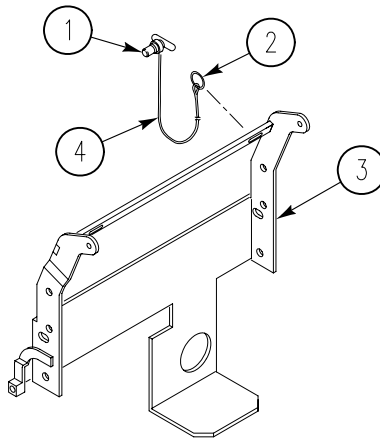
NOTE

The three dummy connectors are removed and installed the same way.

11. If damaged, remove four screws (1), washers (8), and dummy connector (7) from guide (2).

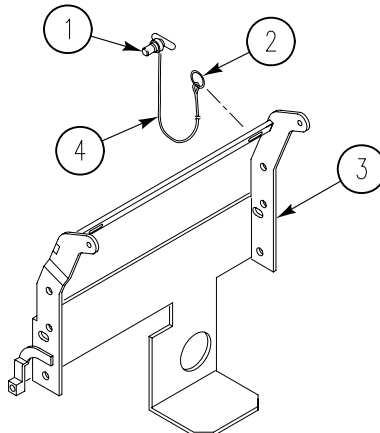


12. If damaged, remove ring (2) with lanyard (4) and knob (1) from bracket (3).

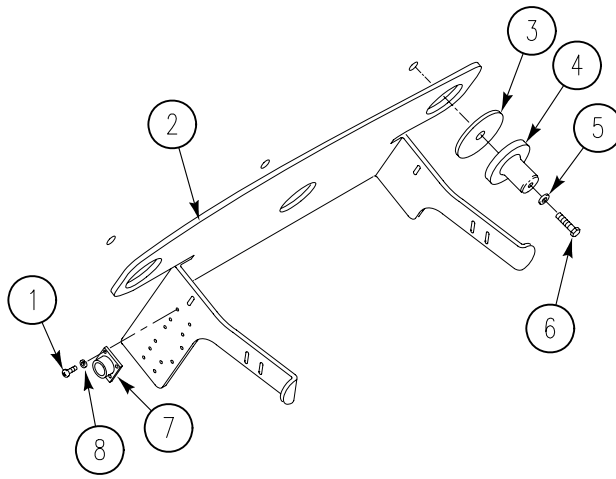


INSTALLATION

1. If removed, install new knob (1) with lanyard (4) and ring (2) on bracket (3).



- If removed, install dummy connector (7), four washers (8), and screws (1) on guide (2).

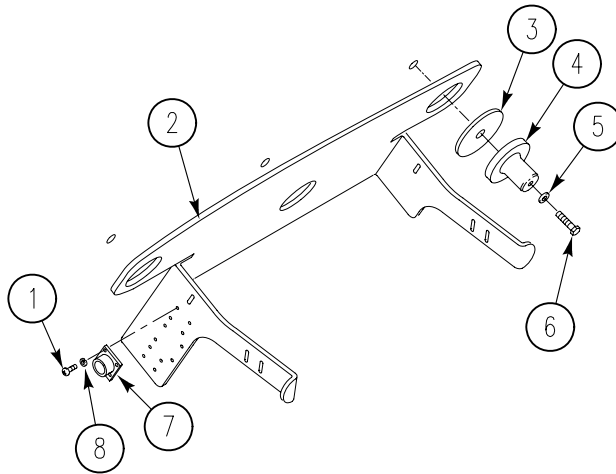


NOTE

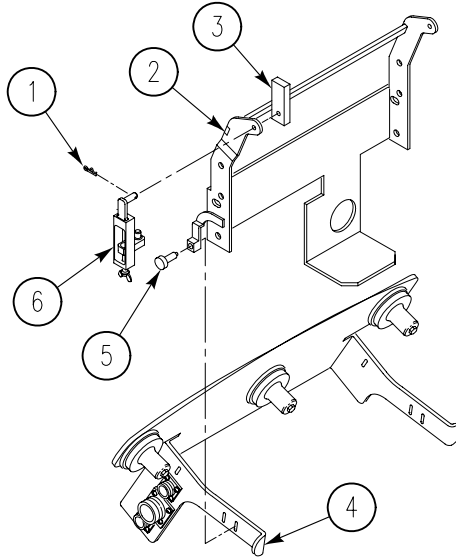
If installing driver's display mounting bracket, do Steps 3 - 7.

If installing driver's commander's display (M58 only) mounting bracket, do Steps 8 - 12.

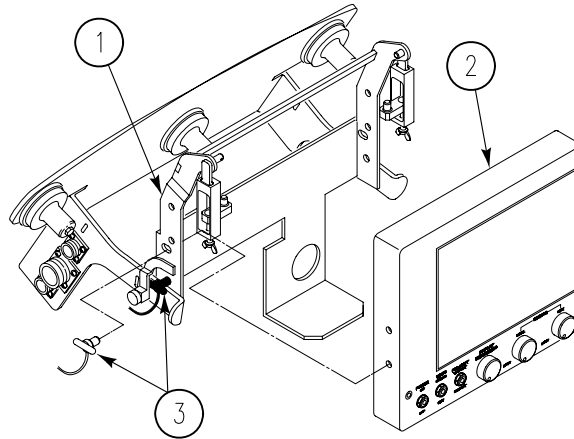
- Position three pads (3) on bulkhead and guide (2) with three clamps (4), new lockwashers (5), and screws (6).



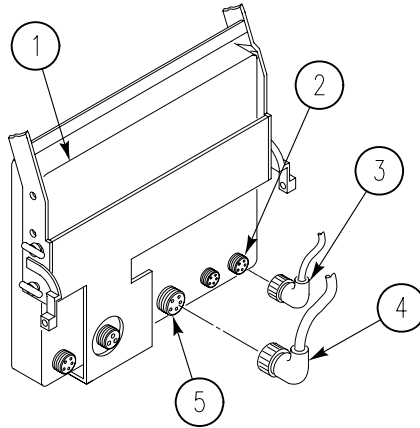
4. Align bracket (2) with two lugs (3) and secure with two supports (6) and clips (1).
5. Secure bracket (2) to guide (4) with two quick release plungers (5).



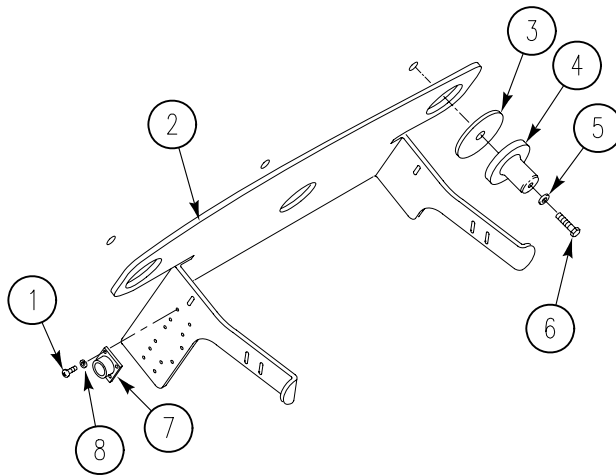
6. Position driver's display (2) on bracket (1) and secure with four knobs (3).



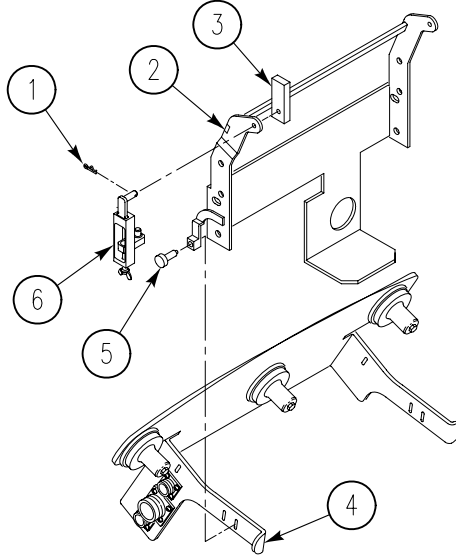
7. If commander's display (M58 only) is not installed in vehicle, install connector W2P2 (4) to connector A1J2 (5) and connector 516B P2 (3) to connector A1J1 (2) on driver's display (1).



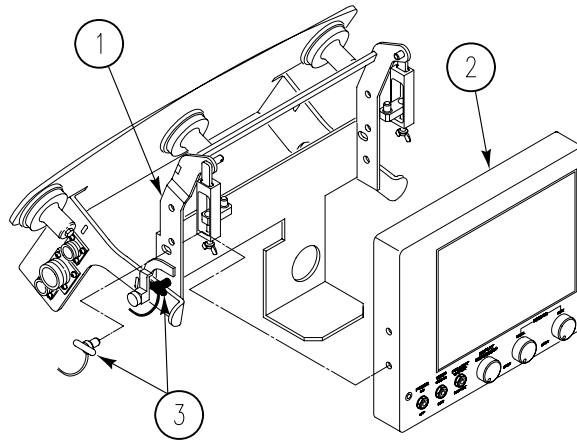
8. Position three pads (3) on bulkhead and guide (2) with three clamps (4), new lockwashers (5), and screws (6).



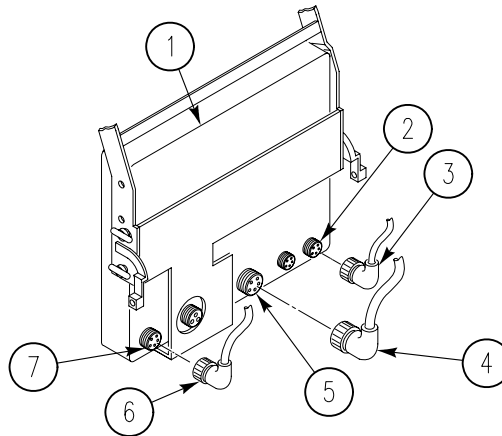
9. Align bracket (2) with two lugs (3) and secure with two supports (6) and clips (1).
10. Secure bracket (2) to guide (4) with two quick release plungers (5).



11. Position driver's display (2) on bracket (1) and secure with four knobs (3).



12. If commander's display (M58 only) is installed in vehicle, install connector W3P1 (6) to connector A1J5 (7), connector W2P2 (4) to connector A1J2 (5), and connector 516B P2 (3) to connector A1J1 (2) on driver's display (1).



FOLLOW-THROUGH STEPS

1. Install driver's center periscope. See TM 9-2350-277-10.

END OF TASK

REPLACE AN/VAS-5 DRIVER'S VISION ENHANCER STOWAGE BRACKET

0866 03

THIS WORK PACKAGE COVERS:

Removal (page 0866 03-1).
 Installation (page 0866 03-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Sensor set assembly removed (TM 9-2350-277-10)

Plug assembly removed (TM 9-2350-277-10)

Materials/Parts

Adhesive (WP 0928 00, Item 6)

Cleaning compound solvent (WP 0928 00, Item 19)

Wiping rag (WP 0928 00, Item 65)

Lockwashers (4)

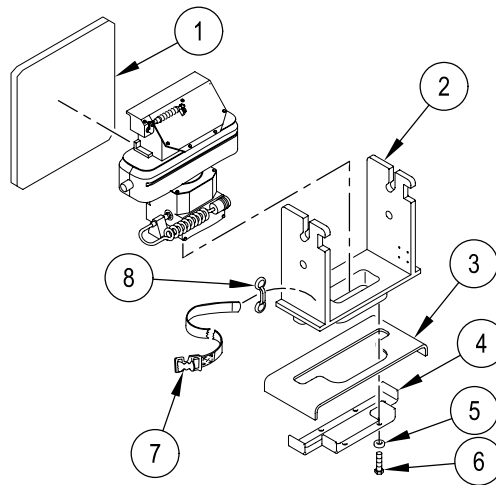
REMOVAL

NOTE

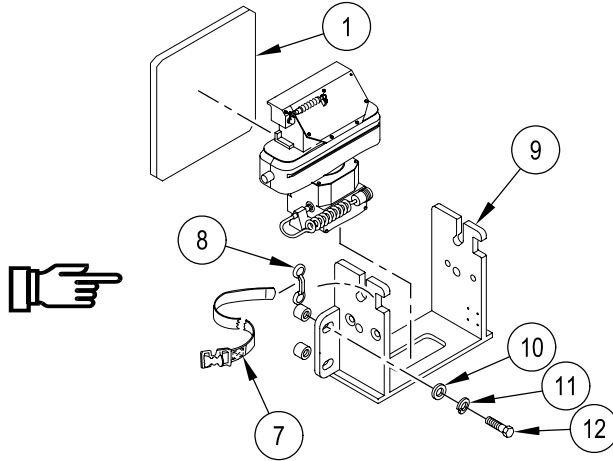
For DVE storage bracket (M58 only) (old configuration), do steps Steps 1 - 3.

For DVE storage bracket (new configuration), go to steps Steps 4 - 6.

1. If damaged, remove strap (7) from two loops (8). Discard strap.
2. Remove four screws (6), washers (5), retainer (4), and stowage bracket (2) from support (3).
3. Check pad (1) behind stowage bracket. If damaged, remove and discard pad.



4. If damaged, remove strap (7) from two loops (8). Discard strap.
5. Remove four screws (12), washers (10), lockwashers (11), and storage bracket (9), from bulkhead. Discard lockwashers.
6. Check pad (1) behind stowage bracket. If damaged, remove and discard pad.



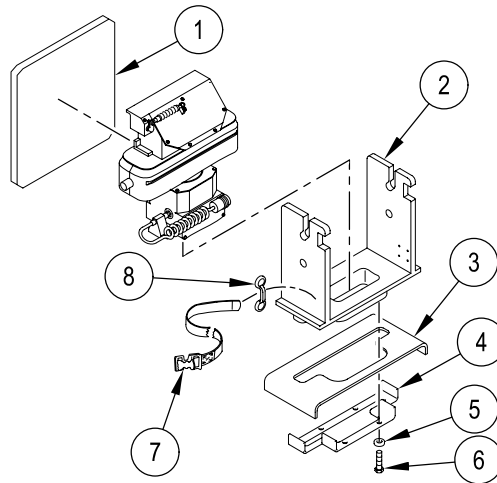
INSTALLATION

NOTE

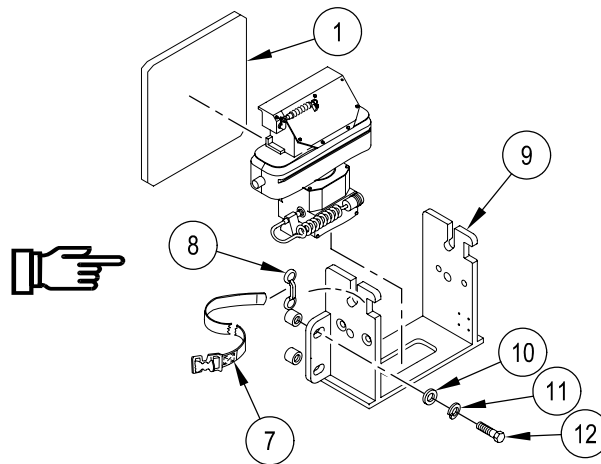
For DVE storage bracket (M58 only) (old configuration), do steps Steps 1 - 3.

For DVE storage bracket (new configuration), go to steps Steps 4 - 6.

1. If pad (1) was removed, clean mating surface using cleaning compound solvent and wiping rag. Cement new pad to driver's compartment wall with adhesive.
2. Install stowage bracket (2), retainer (4), four washers (5), and screws (6) on support (3).
3. If removed, install new strap (7) on two loops (8).



4. If pad (1) was removed, clean mating surface using cleaning compound solvent and wiping rag. Cement new pad to driver's compartment wall with adhesive.
5. Install storage bracket (9), four washers (10), lockwashers (11), and four screws (12), on bulkhead.
6. If removed, install new strap (7) on two loops (8).



END OF TASK

**REPLACE DRIVER’S VISION ENHANCER (DVE) AN/VAS-5
POWER SUPPLY CABLE**

0866 04

THIS WORK PACKAGE COVERS:

- Removal (page 0866 04-1).
- Installation (page 0866 04-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic’s Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

DVE switch off (TM 9-2350-277-10)

Materials/Parts

Lockwasher

REMOVAL

NOTE

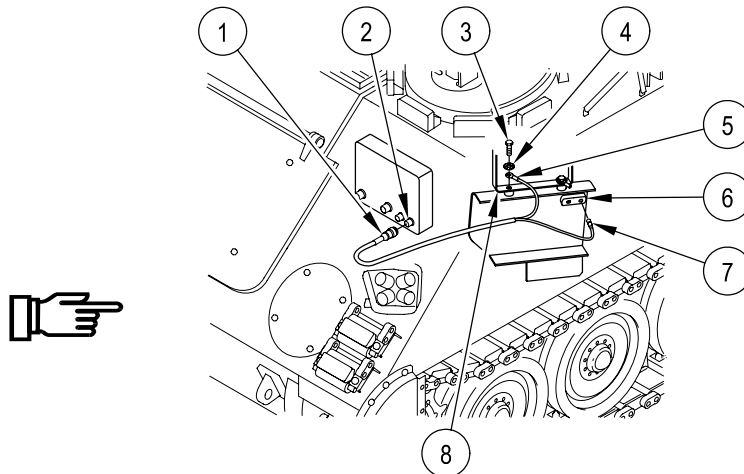
If the commander’s display (M58 only) with mounting bracket is not installed, power supply cable connection to the DVE power switch is connected differently. This task covers both configurations.

NOTE

To replace driver’s display power supply cable, do Steps 1 - 3.

To replace driver’s/commander’s display (M58 only) power supply cable, do Steps 4 - 6.

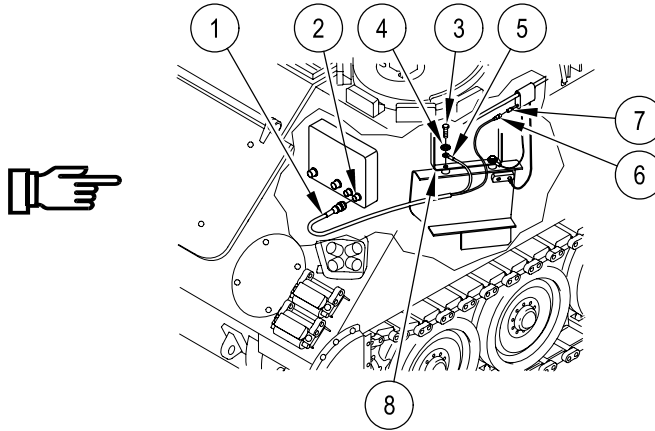
1. Remove power supply cable connector 516B P2 (1) from driver’s display connector A1J1 (2).
2. Remove screw (3), lockwasher (4), and power supply cable ground lead E3 (5) from bracket (8). Discard lockwasher
3. If commander’s display (M58 only) is not installed, remove power supply cable connector 516B P1 (7) from DVE power switch (6). Remove power supply cable from vehicle.



REPLACE DRIVER'S VISION ENHANCER (DVE) AN/VAS-5 POWER SUPPLY CABLE — Continued

0866 04

4. Remove power supply cable connector 516B P2 (1) from driver's display connector A1J1 (2).
5. Remove screw (3), lockwasher (4), and power supply cable ground lead E3 (5) from bracket (8). Discard lockwasher
6. If commander's display (M58 only) is installed, remove power supply cable connector 516B P1 (6) from commander's display cable assembly connector W3P6 (7). Remove power supply cable from vehicle.



INSTALLATION

NOTE

To install driver's/commander's display (M58 only) power supply cable, do Steps 1 - 3.

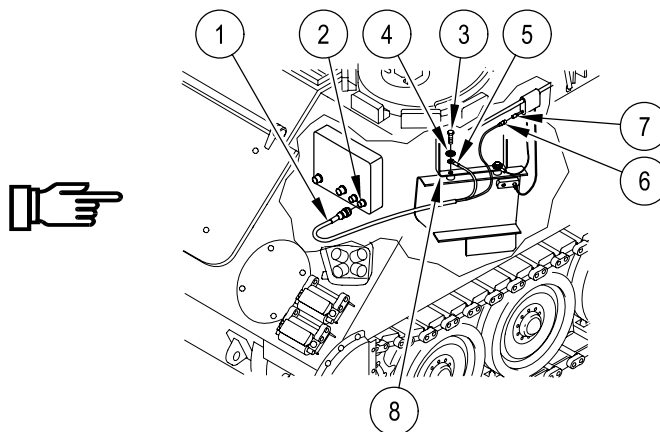
To install driver's display power supply cable, do Steps 4 - 6.

1. If commander's display (M58 only) is installed, install power supply cable connector 516B P1 (6) to commander's display (M58 only) cable assembly connector W3P6 (7).

NOTE

For proper ground install ground lead E3 between lockwasher and bracket as noted in the following step.

2. Install power supply cable ground lead E3 (5), new lockwasher (4), and screw (3) on bracket (8).
3. Connect power supply cable connector 516B P2 (1) to driver's display connector A1J1 (2).



REPLACE DRIVER'S VISION ENHANCER (DVE) AN/VAS-5 POWER SUPPLY CABLE — Continued

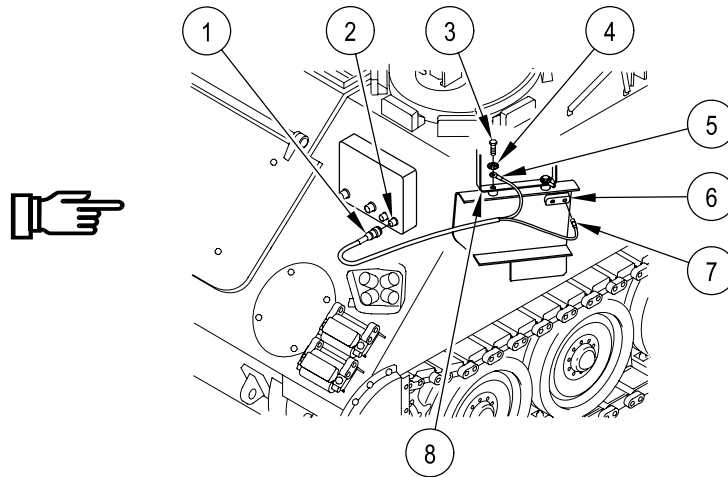
0866 04

4. If commander's display (M58 only) is not installed, install power supply cable connector 516B P1 (7) to DVE power switch (6).

NOTE

For proper ground install ground lead E3 between lockwasher and bracket as noted in the following step.

5. Install power supply cable ground lead E3 (5), new lockwasher (4), and screw (3) on bracket (8).
6. Connect power supply cable connector 516B P2 (1) to driver's display connector A1J1 (2).



END OF TASK

**REPLACE AN/VAS-5 DRIVER'S NIGHT VISION ENHANCER (DVE)
SENSOR SET ASSEMBLY ADAPTER**

0866 05

THIS WORK PACKAGE COVERS:

Removal (page 0866 05-1).
Installation (page 0866 05-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Torque wrench, 3/8 drive, 0-150 lb-in
(WP 0926 00, Item 79)

Equipment Condition

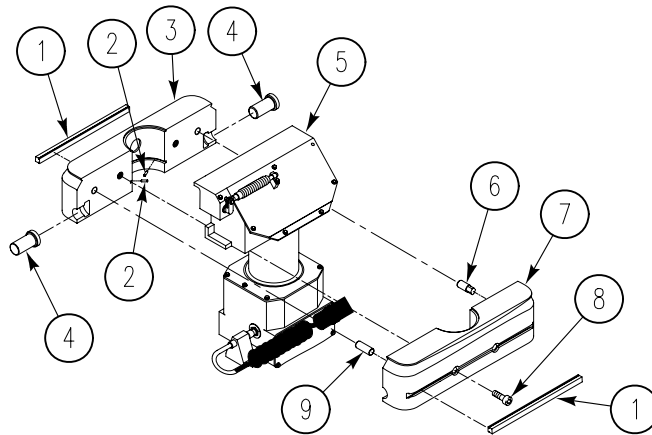
Engine stopped (TM 9-2350-277-10)
Carrier blocked (TM 9-2350-277-10)
Sensor set assembly removed from stowage
(TM 9-2350-277-10)

Materials/Parts

Technical petrolatum (WP 0928 00, Item 61)

REMOVAL

1. Remove two pads (1) from grooves around front adapter half (3) and back adapter half (7).
2. Remove two screws (8) holding front adapter half (3) and back adapter half (7) together. Retain screws for installation.
3. Pull front adapter half (3) and back adapter half (7) from sensor assembly (5).
4. Remove two bosses (4) from front adapter half (3) and back adapter half (7).
5. Remove two pins (6) and (9) from front adapter half (3) and back adapter half (7). Discard pins if damaged.
6. Remove two pins (2) from front adapter half (3). Discard pins if damaged.

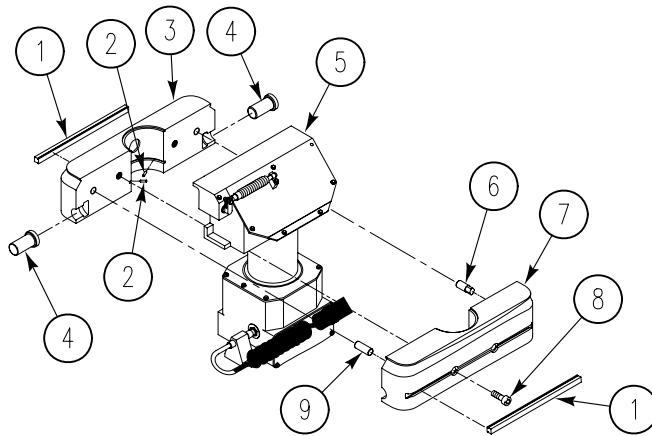


**REPLACE AN/VAS-5 DRIVER'S NIGHT VISION ENHANCER (DVE) SENSOR
SET ASSEMBLY ADAPTER — Continued**

0866 05

INSTALLATION

1. Install tapered end of two pins (2) in front adapter half (3).
2. Install two pins (6) and (9) in front adapter half (3) and back adapter half (7).
3. Apply technical petrolatum to bore of adapter and install two new bosses (4).
4. Install front adapter half (3) and back adapter half (7) on sensor assembly (5). Secure with two existing screws (8).
TORQUE TWO SCREWS TO 86-94 LB-IN (10-11 N·m).
5. Install two new pads (1) into grooves around adapter .

**END OF TASK**

REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY)

0866 06

THIS WORK PACKAGE COVERS:

Removal (page 0866 06-1).
 Installation (page 0866 06-5).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)

DVE switch off (see your -10)

Rear upper power plant access panel removed (see your -10)

Materials/Parts

Straps (2)

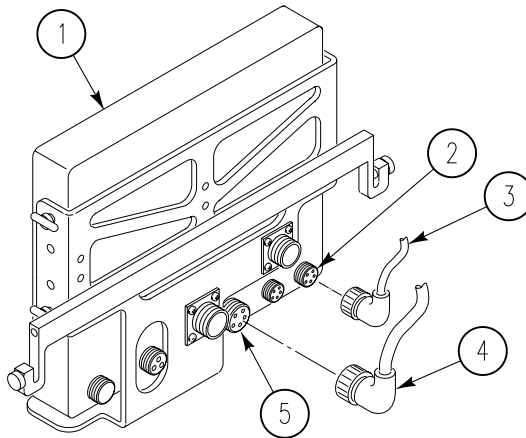
Personnel Required

Unit Mechanic

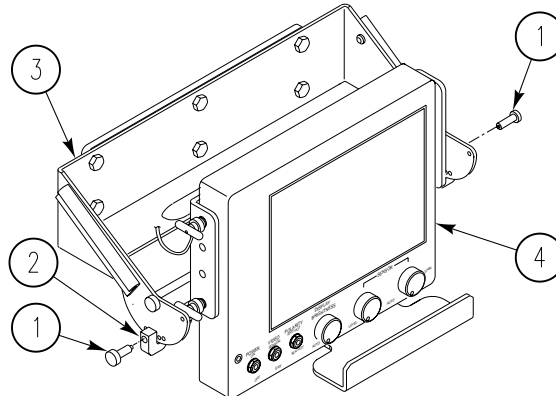
Helper (H)

REMOVAL

1. Remove connector W3P2 (4) from connector A1J2 (5) and connector W3P3 (3) from connector A1J1 (2) on commander's display (1).

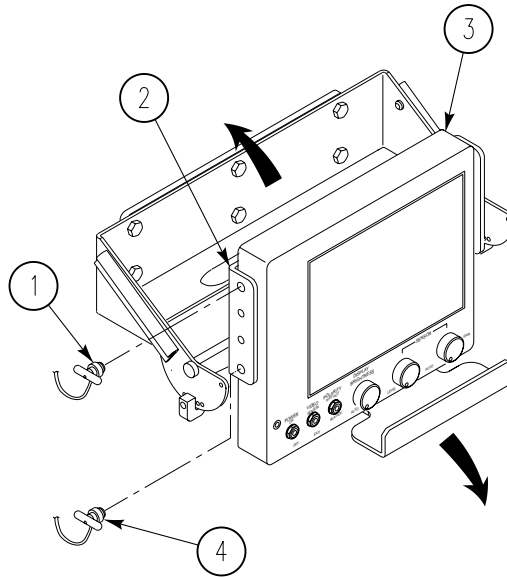


2. Remove two quick release plungers (1) securing bracket (2) to bracket (3).

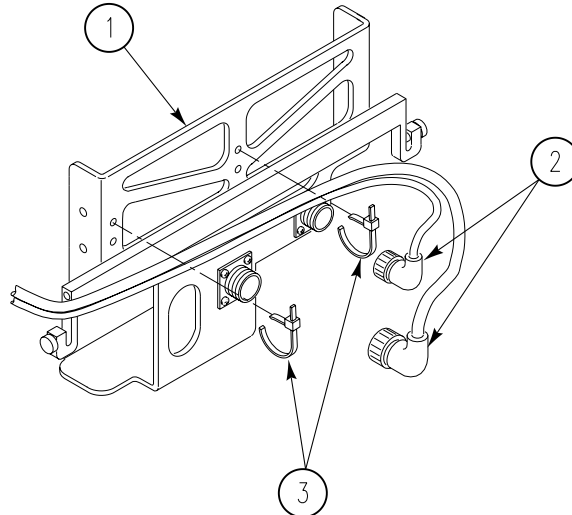


**REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued****0866 06**

3. Pivot bracket (2) with commander's display (3) up and remove two lower knobs (4). Pivot bracket with commander's display down. While holding commander's display, remove two upper knobs (1) and commander's display from bracket (2).



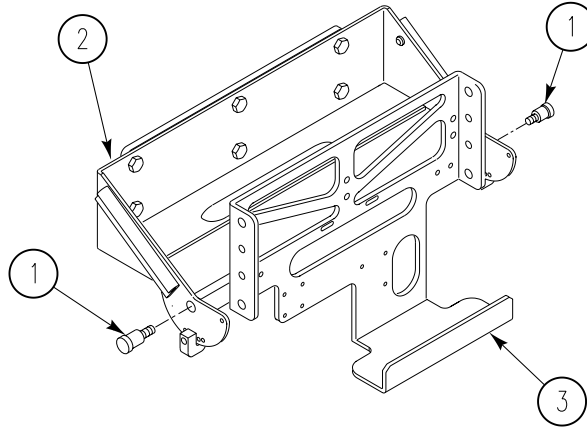
4. Cut two straps (3) securing cable assembly (2) to bracket (1).



**REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued**

0866 06

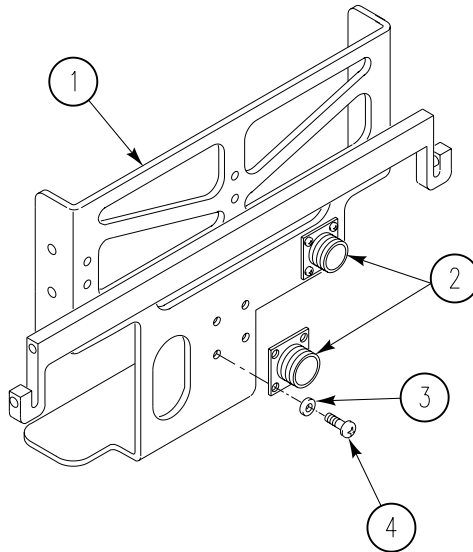
- Remove two shoulder screws (1) and bracket (2) from bracket (3).



NOTE

The two dummy connectors are removed and installed the same way.

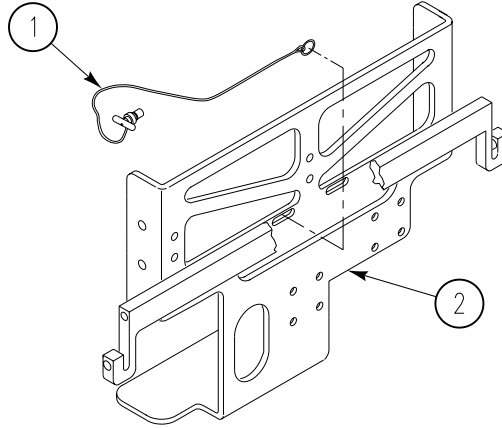
- If damaged, remove four screws (4), washers (3), and dummy connector (2) from bracket (1).



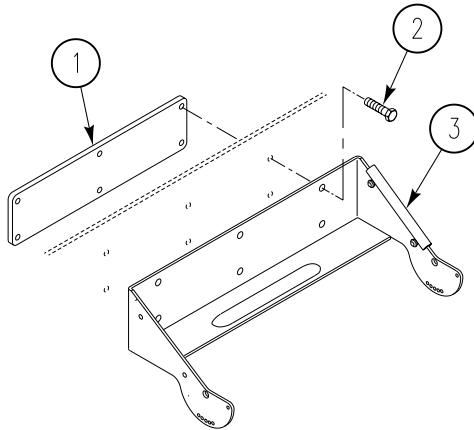
REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued

0866 06

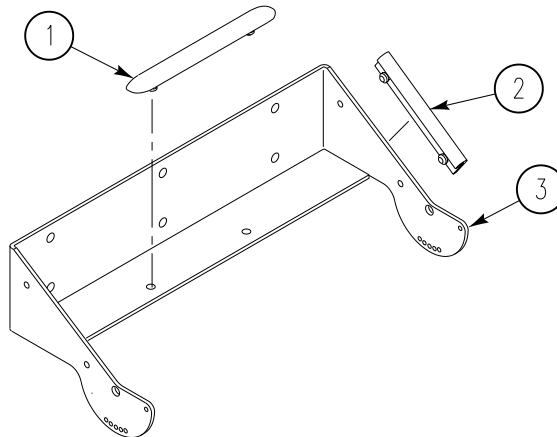
7. If damaged, remove ring and lanyard with knob (1) from bracket (2).



8. Remove two screws (2), bracket (3), and backplate (1) from bulkhead. Have helper assist.



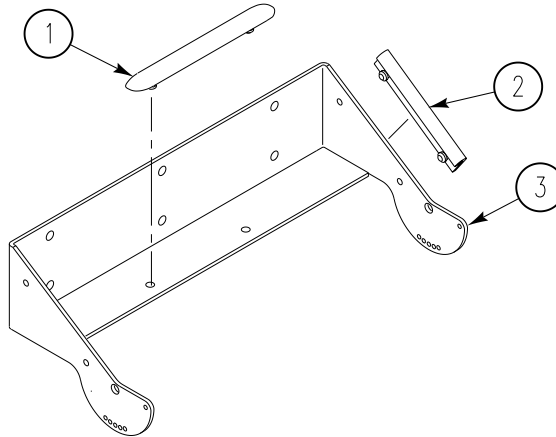
9. If damaged, remove pad (2) and cushion (1) from bracket (3).



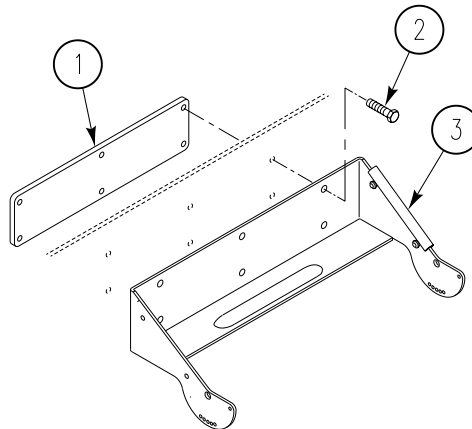
REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued

INSTALLATION

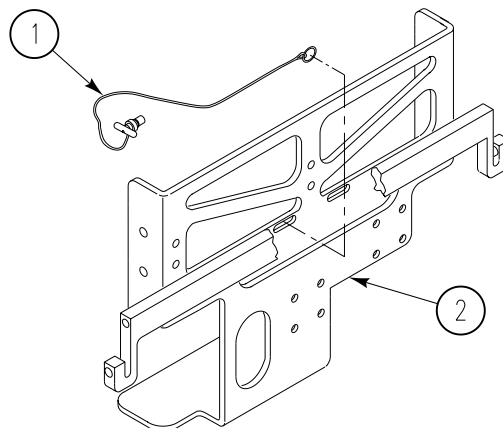
1. If removed, install new cushion (1) and new pad (2) on bracket (3).



2. Install backplate (1), bracket (3), and two screws (2) on bulkhead.



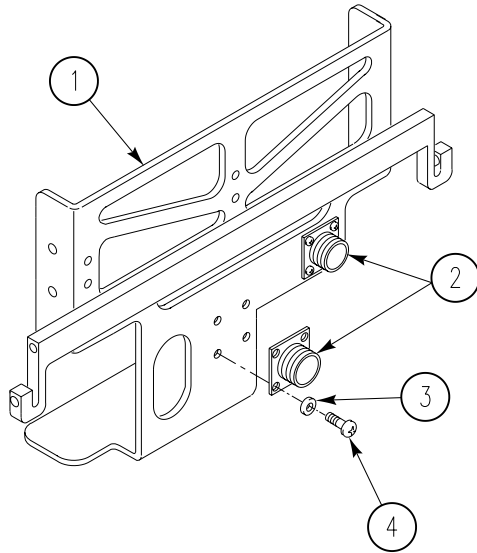
3. If removed, install new knob with lanyard and ring (1) on bracket (2).



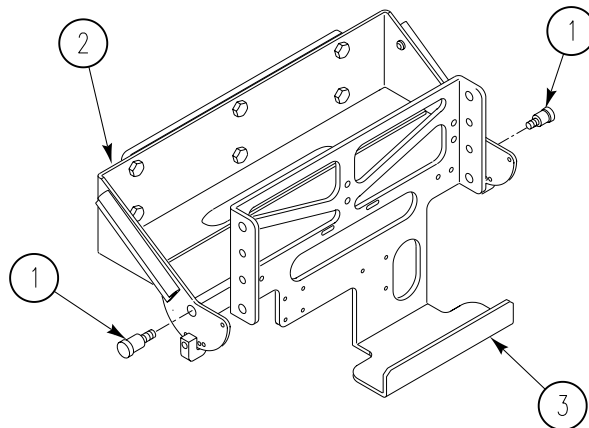
REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued

0866 06

4. If removed, install dummy connector (2), four washers (3), and screws (4) on bracket (1).



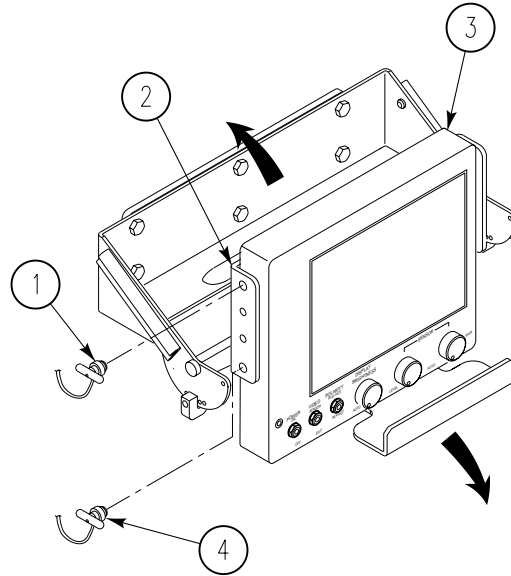
5. Align bracket (3) with bracket (2) and secure with two shoulder screws (1).



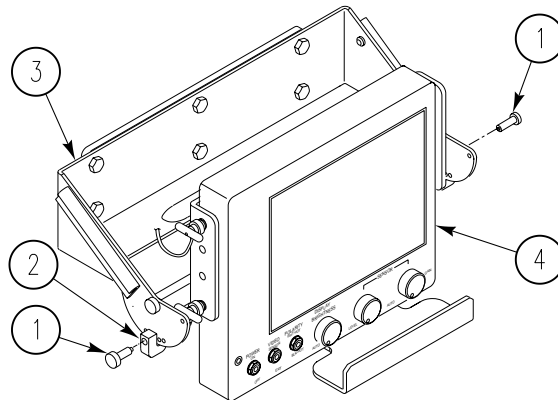
6. Position commander's display (3) on bracket (2) and secure with two upper knobs (1).

**REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued**

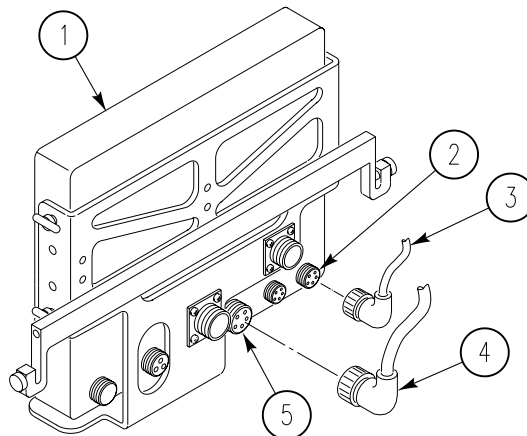
7. Swing bracket (2) with commander's display (3) up and install two lower knobs (4).



8. Install two quick release plungers (1) securing bracket (2) to bracket (3).



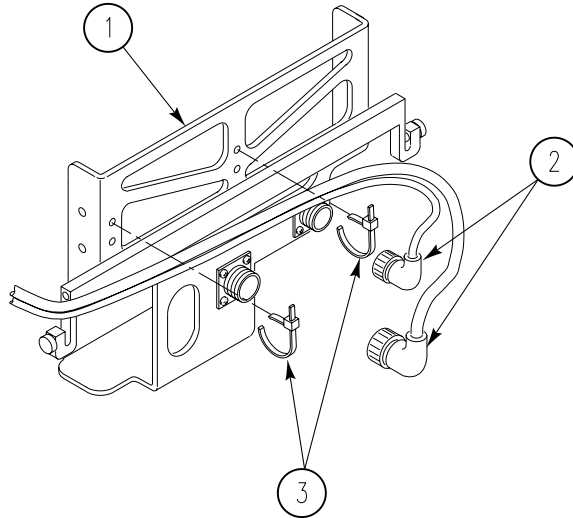
9. Install connector W3P2 (4) to connector A1J2 (5) and connector W3P3 (3) to connector A1J1 (2) on commander's display (1).



**REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) —
Continued**

0866 06

10. Install two new straps (3) securing cable assembly (2) to bracket (1).

**FOLLOW-THROUGH STEPS**

1. Install rear upper power plant access panel (see your -10).

END OF TASK

REPLACE MSD/ICE PULSE TACHOMETER

0867 00

THIS WORK PACKAGE COVERS:

Removal (page 0867 00-1).
 Installation (page 0867 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Air intake elbow removed (WP 0173 00)

Materials/Parts

Gasket

REMOVAL

WARNING

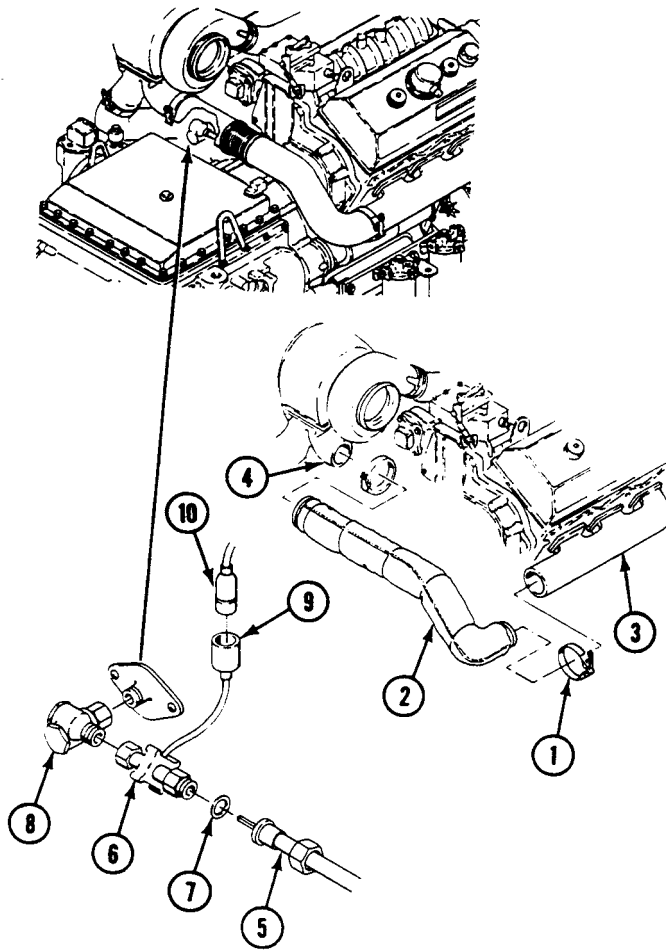


Hot exhaust pipes can burn. Let power unit cool before starting work.

1. Remove two clamps (1) from elbow (2), and elbow from exhaust manifold (3) and turbo inlet (4).

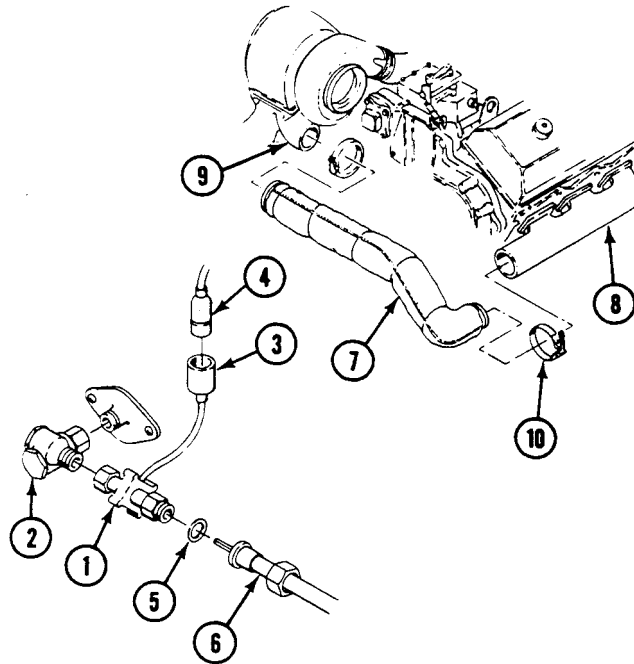
REPLACE MSD/ICE PULSE TACHOMETER — Continued**0867 00**

2. Remove cable assembly (5) from pulse tachometer (6).
3. Slide jam nut back and remove gasket (7) from assembly (5). Discard gasket.
4. Remove tachometer (6) from engine adapter (8).
5. Disconnect lead (9) from lead (10) and remove tachometer (6).



INSTALLATION

1. Install tachometer (1) on engine adapter (2).
2. Connect lead (3) to lead (4).
3. Install new gasket (5) in assembly (6). Slide jam nut forward.
4. Install assembly (6) on tachometer (1).
5. Install elbow (7) to exhaust manifold (8) and turbo inlet (9) with two clamps (10).

**FOLLOW-THROUGH STEPS**

1. Install air intake elbow (WP 0173 00).

END OF TASK

REPLACE MSD/ICE SHUNT GUARD (M113A3 AND M1059A3 ONLY)

0868 00

THIS WORK PACKAGE COVERS:

- Removal (page 0868 00-1).
 - Cleaning (page 0868 00-3).
 - Installation (page 0868 00-3).
-

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Battery ground strap disconnected (WP 0337 00)

Materials/Parts

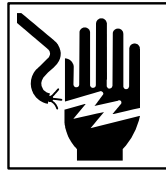
Lockwasher

Personnel Required

Unit Mechanic

REMOVAL

WARNING



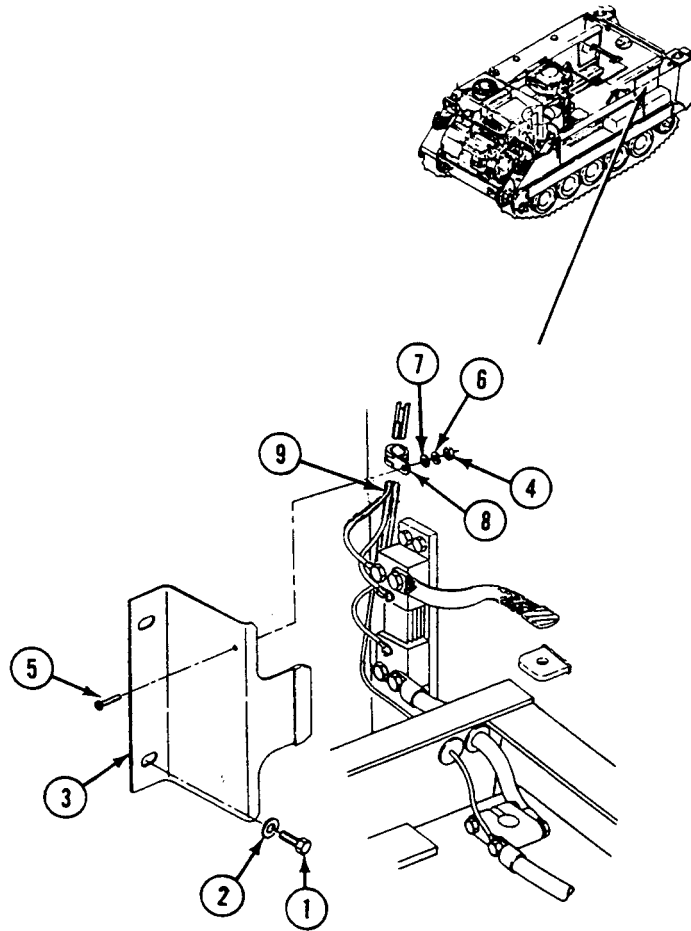
Battery posts and power cables can short circuit and burn you.

Remove vehicle ground cable before starting task. Do not touch battery posts with tools or other metal objects. Do not wear jewelry when working with battery or electrical system.

NOTE

Wiring harness is secured to underside of shunt guard.

1. Slide spill liners to gain access to battery box. See TM 9-2350-277-10.
2. Remove two screws (1), washers (2), and shunt guard (3) from hull with attached wiring harness.
3. Remove nut (4), screw (5), lockwasher (6), washer (7), clamp (8), and wiring harness (9) from shunt guard (3). Discard lockwasher.

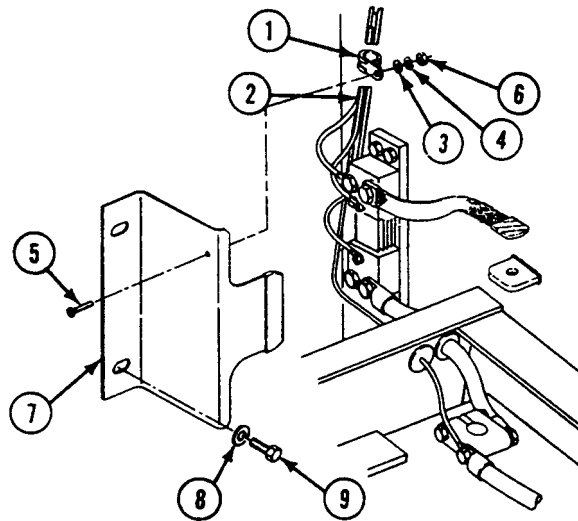


CLEANING

1. Check shunt guard (7) for corrosion, bends, and cracks. Repair or replace damaged guard.
2. Check shunt guard (7) plastic coating for cracks, separation, and missing plastic. Repair plastic coating.

INSTALLATION

1. Install clamp (1), wiring harness (2), washer (3), new lockwasher (4), screw (5), and nut (6) on shunt guard (7).
2. Install shunt guard (7) with attached wiring harness, two washers (8), and screws (9) on hull.
3. Slide spall liners in place.

**FOLLOW-THROUGH STEPS**

1. Connect battery ground strap (WP 0337 00).

END OF TASK

REPLACE MSD/ICE SHUNT (M113A3 AND M1059A3 ONLY)

0870 00

THIS WORK PACKAGE COVERS:

Removal (page 0870 00-1).
 Installation (page 0870 00-4).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Battery ground strap disconnected (WP 0337 00)

Left rear spall liner open (TM 9-2350-277-10)

Shunt guard removed (WP 0868 00)

Materials/Parts

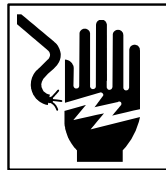
Insulation tape (WP 0928 00, Item 39)

Lockwasher (5)

Lockwasher (4)

REMOVAL

WARNING

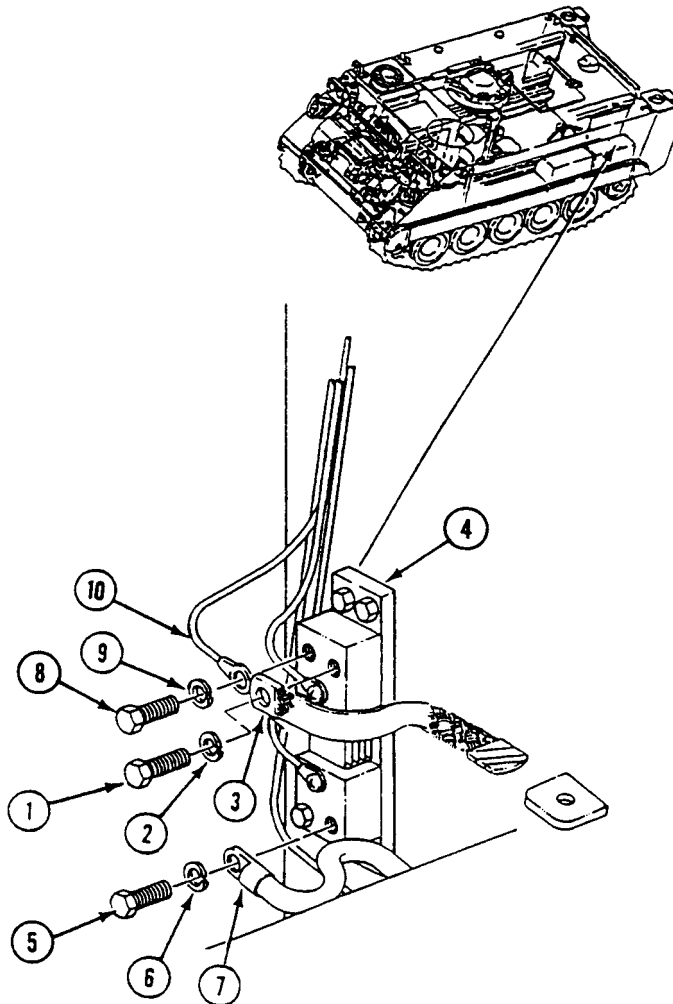


Battery posts and power cables can short circuit and burn you.

Remove vehicle ground cable before starting task. Do not touch battery posts with tools or other metal objects. Do not wear jewelry when working with battery or electrical system.

REPLACE MSD/ICE SHUNT (M113A3 AND M1059A3 ONLY) — Continued**0870 00**

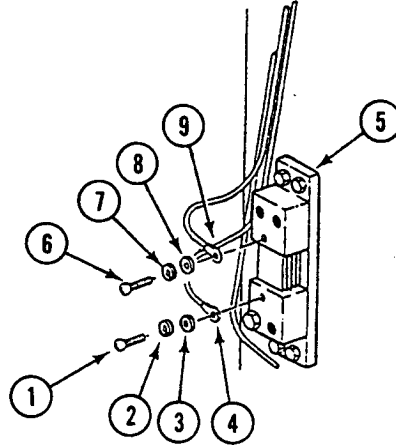
1. Remove screw (1), lockwasher (2), and battery ground strap (3) from shunt (4). Discard lockwasher.
2. Remove two screws (5), lockwashers (6), and battery lead (7) from shunt (4). Tape battery lead. Discard lockwashers.
3. Remove screw (8), lockwasher (9), and lead 770 (10) from shunt (4). Discard lockwasher.



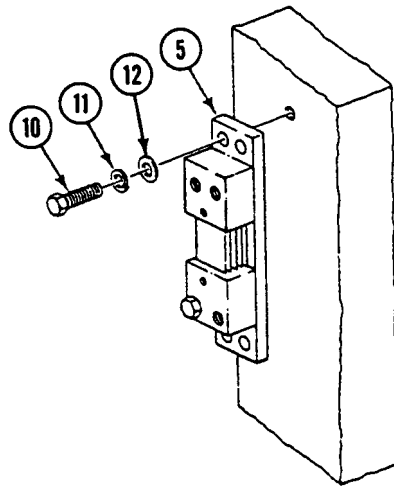
REPLACE MSD/ICE SHUNT (M113A3 AND M1059A3 ONLY) — Continued

0870 00

4. Remove screw (1), lockwasher (2), washer (3), and lead 781 (4) from shunt (5). Discard lockwasher.
5. Remove screw (6), lockwasher (7), washer (8), and lead 780 (9) from shunt (5). Discard lockwasher.

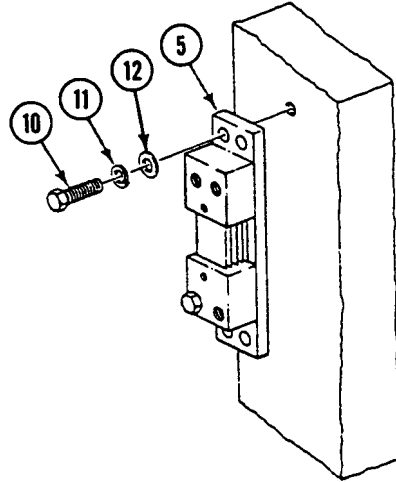


6. Remove four screws (10), lockwashers (11), washers (12), and shunt (5) from hull. Discard lockwashers.

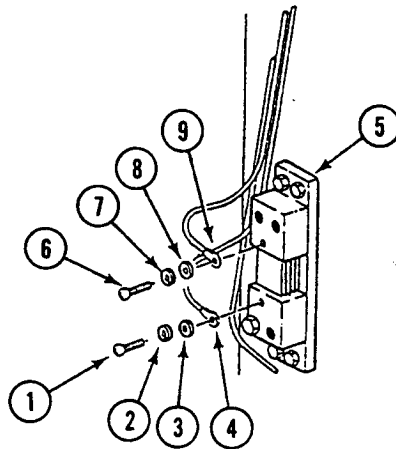


INSTALLATION

1. Install shunt (5) on hull. Secure with four screws (10), new lockwashers (11) and washers (12).

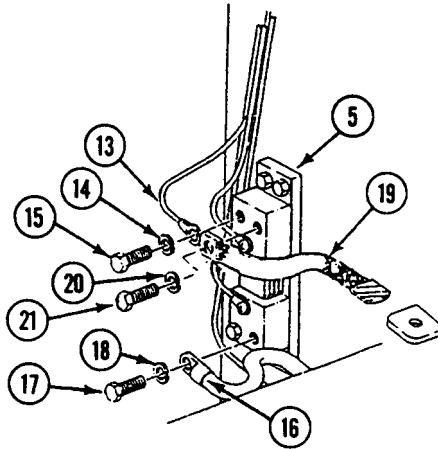


2. Install lead 780 (9), new lockwasher (8), washer (7), and screw (6) on shunt (5).
3. Install lead 781 (4), new lockwasher (2), washer (3), and screw (1) on shunt (5).



REPLACE MSD/ICE SHUNT (M113A3 AND M1059A3 ONLY) — Continued**0870 00**

4. Install lead 770 (13), new lockwasher (14), and screw (15) on shunt (5).
5. Remove tape from battery lead (16) and install lead on shunt (5). Secure with two screws (17) and new lockwashers (18).
6. Install battery ground strap (19), new lockwasher (20), and screw (21) to shunt (5).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground strap (WP 0337 00).
2. Install shunt guard (WP 0868 00).
3. Close spill liners. See TM 9-2350-277-10.

END OF TASK

REPLACE MSD/ICE SHUNT (M577A3 AND M1068A3 ONLY)

0871 00

THIS WORK PACKAGE COVERS:

- Removal (page 0871 00-2).
 - Installation (page 0871 00-3).
-

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Battery ground lead disconnected (WP 0338 00)

Materials/Parts

Lockwasher (5)

Lockwasher (4)

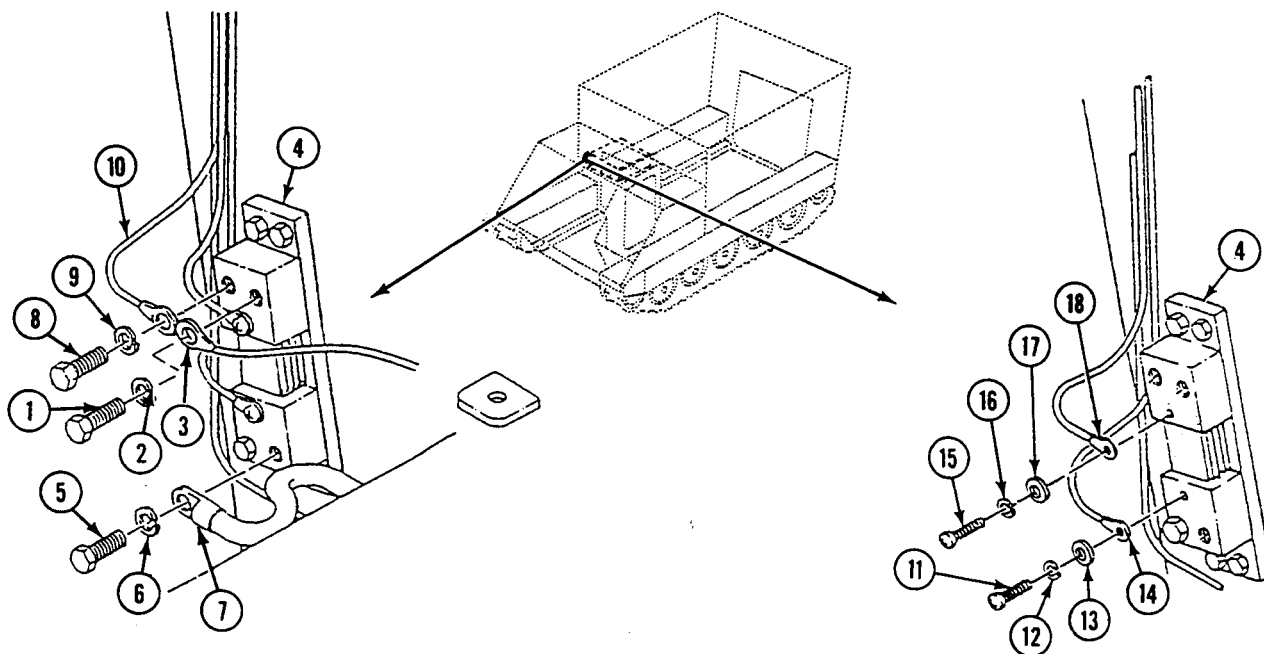
Tape

REMOVAL

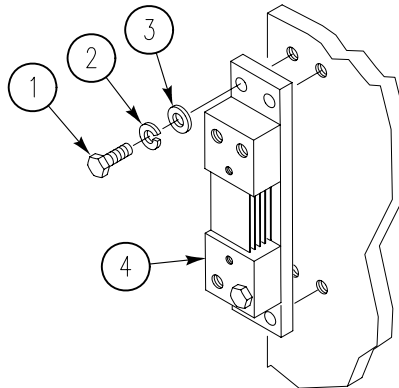
WARNING

Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

1. Remove screw (1), lockwasher (2), and battery ground lead (3) from shunt (4). Discard lockwasher.
2. Remove screw (5), lockwasher (6), and battery lead (7) from shunt (4). Tape battery lead. Discard lockwasher.
3. Remove screw (8), lockwasher (9), and lead 770 (10) from shunt (4). Discard lockwasher.
4. Remove screw (11), lockwasher (12), washer (13), and lead 781 (14) from shunt (4). Discard lockwasher.
5. Remove screw (15), lockwasher (16), washer (17), and lead 780 (18) from shunt (4). Discard lockwasher.

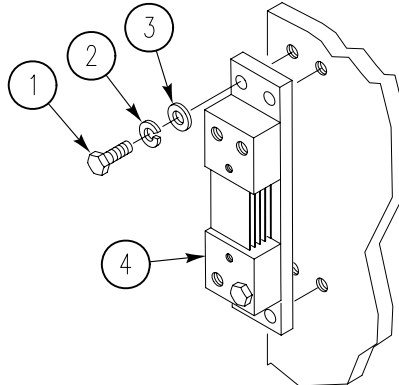


- Remove four screws (1), lockwashers (2), washers (3), and shunt (4) from hull. Discard lockwashers.

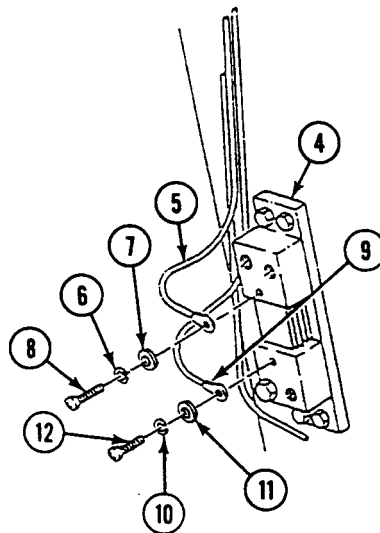


INSTALLATION

- Install shunt (4) on hull. Secure with four screws (1), new lockwashers (2), and washers (3).

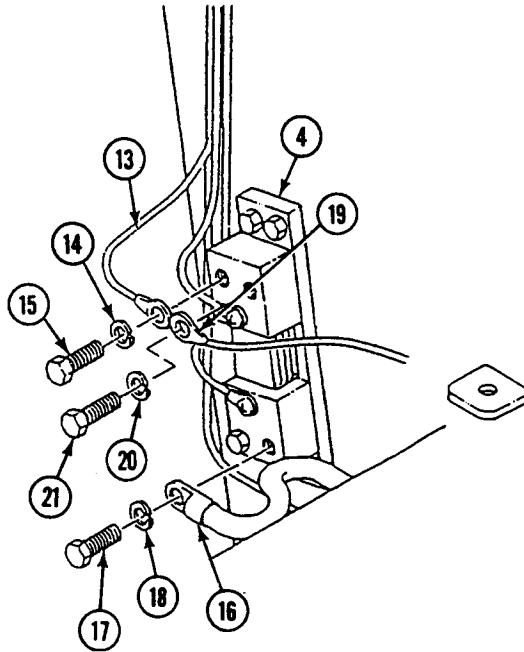


- Install lead 780 (5), new lockwasher (6), washer (7), and screw (8) on shunt (4).
- Install lead 781 (9), new lockwasher (10), washer (11), and screw (12) on shunt (4).



REPLACE MSD/ICE SHUNT (M577A3 AND M1068A3 ONLY) — Continued**0871 00**

4. Install lead 770 (13), new lockwasher (14), and screw (15) on shunt (4).
5. Remove tape from battery lead (16), and install on shunt (4). Secure with screw (17) and new lockwasher (18).
6. Install battery ground lead (19), new lockwasher (20), and screw (21) to shunt (4).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE MSD/ICE SHUNT (M1064A3 ONLY)

0873 00

THIS WORK PACKAGE COVERS:

Removal (page 0873 00-1).
 Installation (page 0873 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Battery ground strap disconnected (WP 0337 00)

Materials/Parts

Lockwasher (5)

Locknut (4)

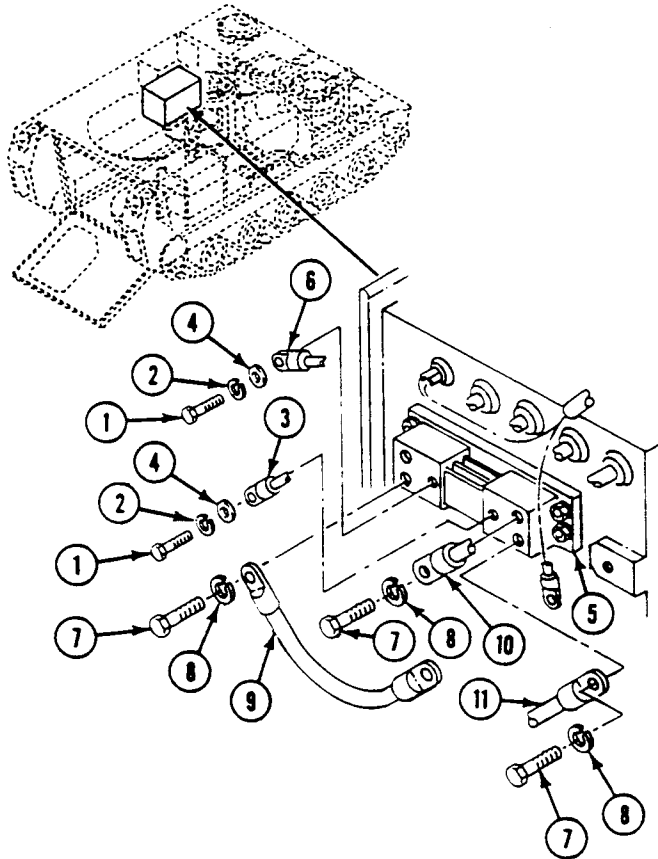
REMOVAL

WARNING

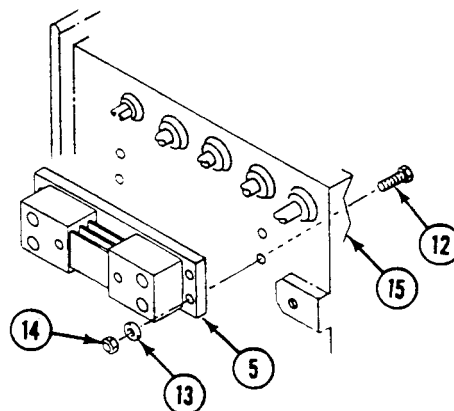


Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

1. Remove screw (1), lockwasher (2), circuit 781 lead (3), and washer (4) from shunt (5). Discard lockwasher.
2. Remove screw (1), lockwasher (2), circuit 780 lead (6), and washer (4) from shunt (5). Discard lockwasher.
3. Remove screw (7), lockwasher (8), and ground lead (9) from shunt (5). Discard lockwasher.
4. Remove screw (7), lockwasher (8), and circuit 7 lead (10) from shunt (5). Discard lockwasher.
5. Remove screw (7), lockwasher (8), and circuit 6N lead (11) from shunt (5). Discard lockwasher.

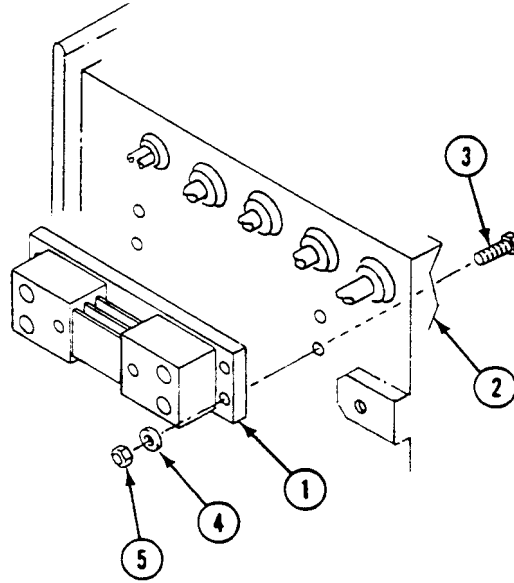


6. Remove four screws (12), washers (13), locknuts (14), and shunt (5) from battery compartment (15). Discard locknuts.



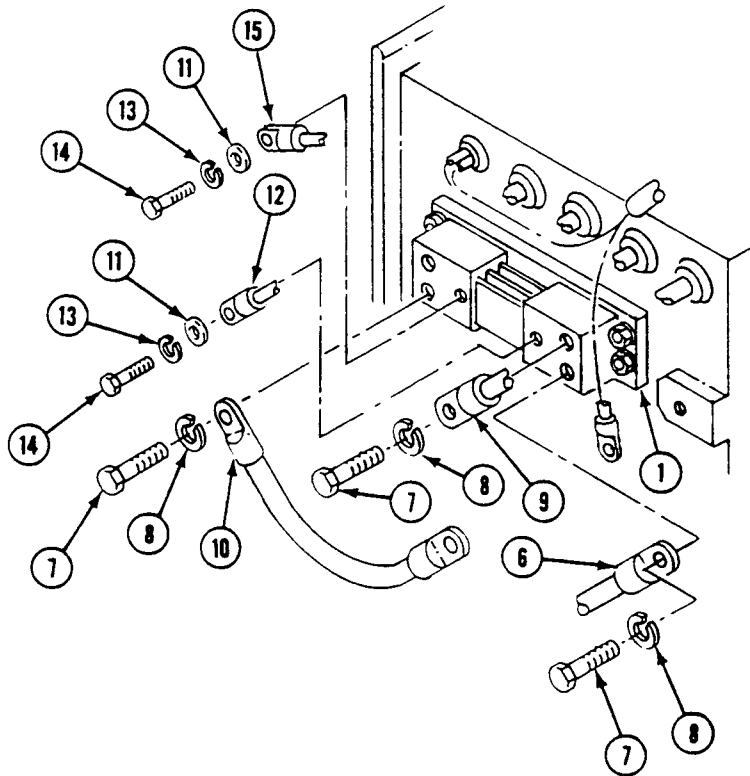
INSTALLATION

1. Install shunt (1) on battery compartment (2) with four screws (3), washers (4), and new locknuts (5).



REPLACE MSD/ICE SHUNT (M1064A3 ONLY) — Continued**0873 00**

2. Connect circuit 6N (6) to shunt (1) with screw (7) and new lockwasher (8).
3. Connect circuit 7 lead (9) to shunt (1) with screw (7) and new lockwasher (8).
4. Connect ground lead (10) to shunt (1) with screw (7) and new lockwasher (8).
5. Install washer (11), circuit 781 lead (12), new lockwasher (13), and screw (14) on shunt (1).
6. Install washer (11), circuit 780 lead (15), new lockwasher (13), and screw (14) on shunt (1).

**FOLLOW-THROUGH STEPS**

1. Battery ground strap connected (WP 0337 00).
2. Operate dome light or blackout light to check that light operates properly. See TM 9-2350-277-10.
3. Turn all switches OFF. See TM 9-2350-277-10.

END OF TASK

REPLACE MSD/ICE DISTRIBUTION BOX (M113A3 AND M1059A3 ONLY)

0874 00

THIS WORK PACKAGE COVERS:

Removal (page 0874 00-1).
 Installation (page 0874 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10
 WP 0868 00

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)
 Carrier blocked (TM 9-2350-277-10)
 Battery ground strap disconnected (WP 0337 00)

Materials/Parts

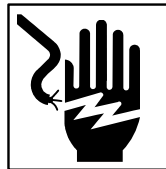
Lockwasher
 Lockwasher (4)
 Insulation tape (WP 0928 00, Item 39)

Personnel Required

Unit Mechanic

REMOVAL

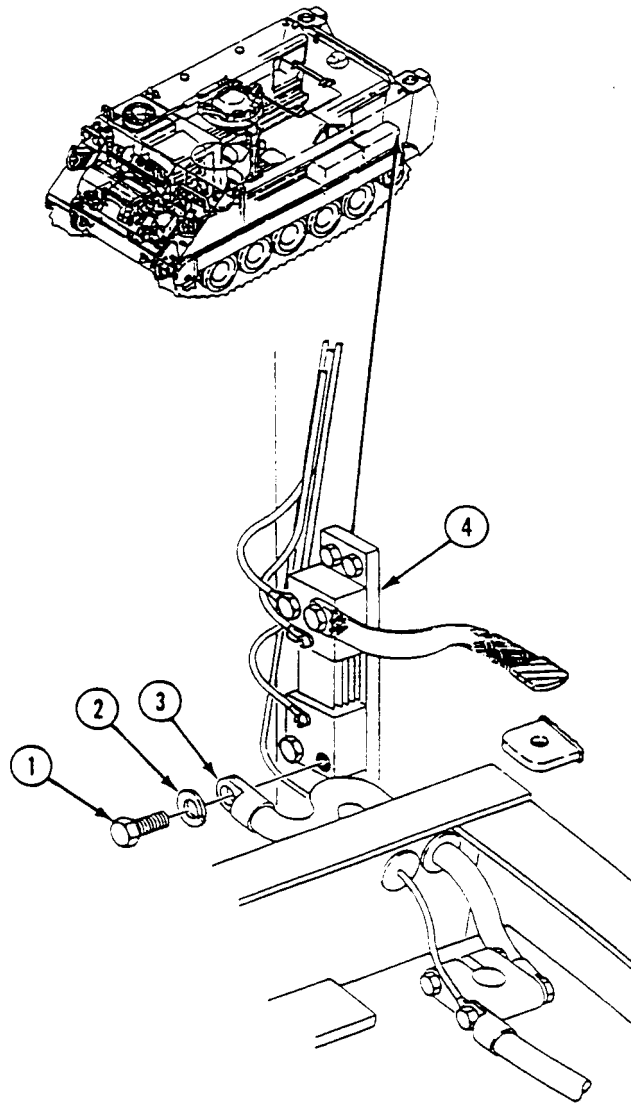
WARNING



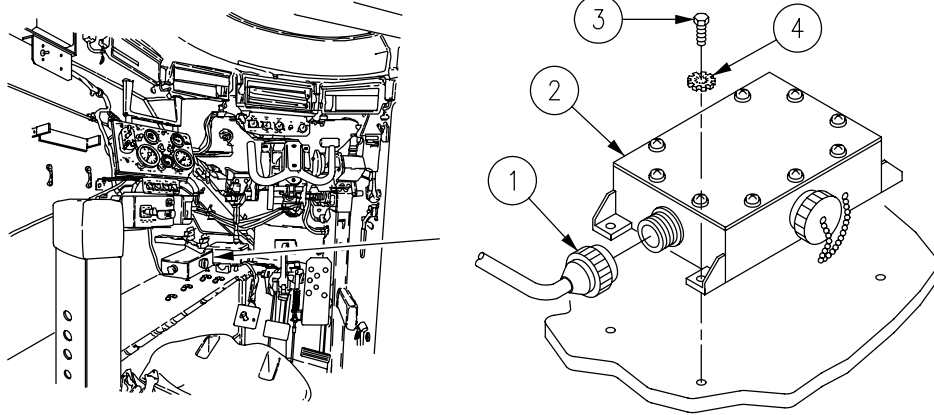
Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

1. Slide spill liners to gain access to battery box. See TM 9-2350-277-10.
2. Remove shunt guard (WP 0868 00).

3. Remove screw (1), lockwasher (2), and battery negative lead (3) from shunt (4). Tape battery lead. Discard lockwasher.

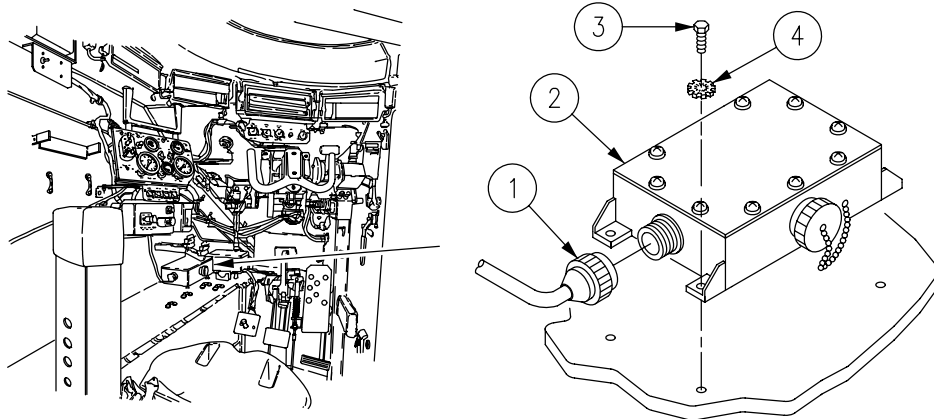


4. Remove electrical connector (1) from distribution box (2).
5. Remove four screws (3), lockwashers (4), and distribution box (2). Discard lockwashers.

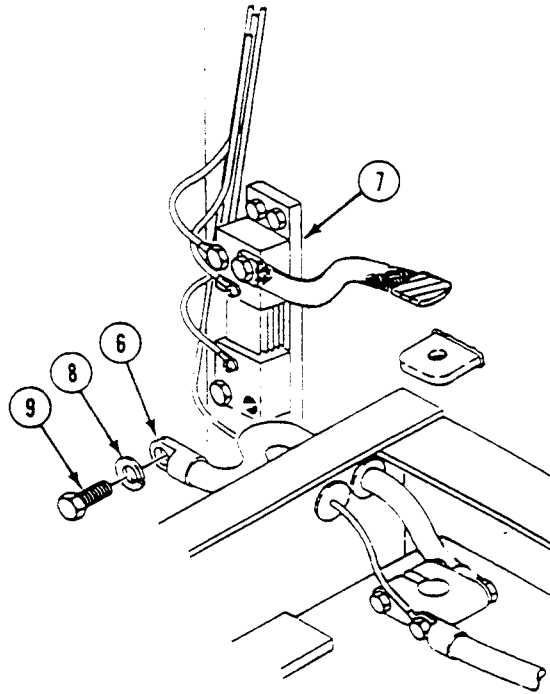


INSTALLATION

1. Install distribution box (2). Secure with four new lockwashers (4) and screws (3).
2. Install electrical connector (1) in distribution box (2).



3. Untape and install negative battery lead (6) on shunt (7). Secure with new lockwasher (8) and screw (9).



4. Install shunt guard (WP 0868 00).
5. Slide spall liners back to original position. See TM 9-2350-277-10.

FOLLOW-THROUGH STEPS

1. Connect battery ground strap (WP 0337 00).

END OF TASK

REPLACE MSD/ICE DISTRIBUTION BOX (M577A3 AND M1068A3 ONLY)

0875 00

THIS WORK PACKAGE COVERS:

- Removal (page 0875 00-1).
- Installation (page 0875 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Battery ground lead disconnected (WP 0338 00)

Materials/Parts

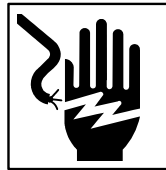
Insulation tape (WP 0928 00, Item 39)

Lockwasher (4)

Lockwasher

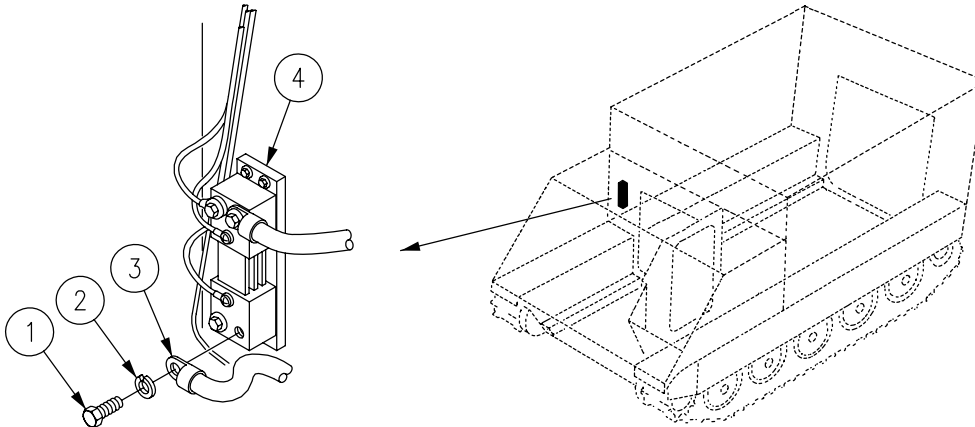
REMOVAL

WARNING

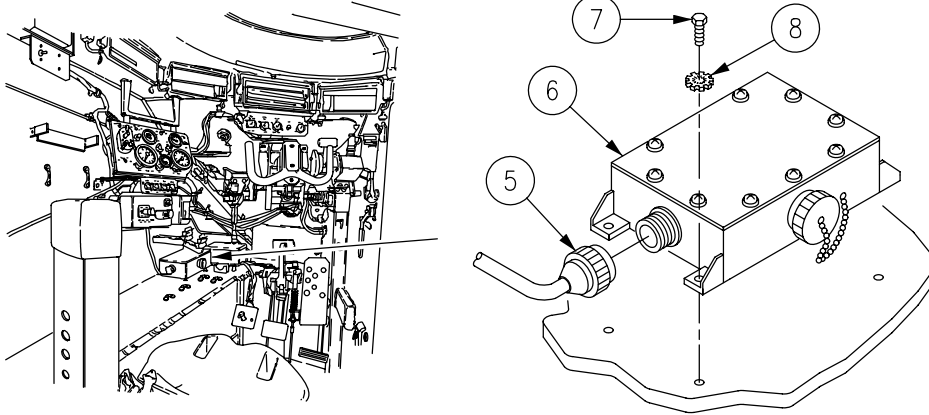


Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical systems.

1. Remove screw (1), lockwasher (2), and negative battery lead (3) from shunt (4). Tape battery lead. Discard lockwasher.

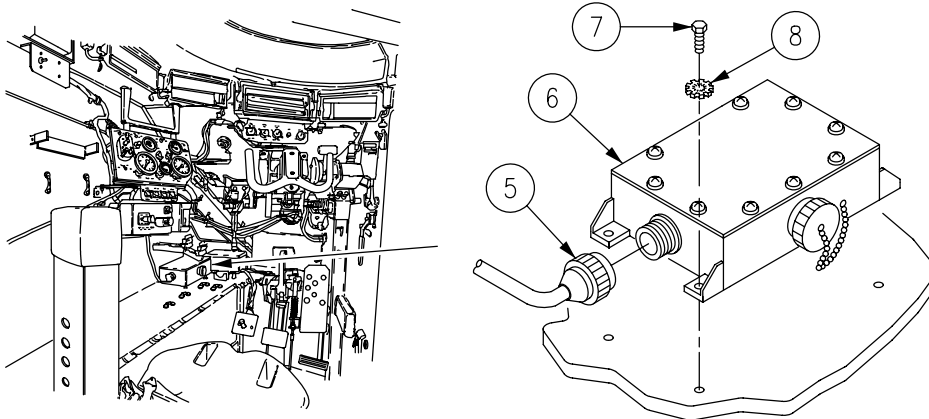


2. Remove electrical connector (5) from distribution box (6).
3. Remove four screws (7), lockwashers (8), and distribution box (6). Discard lockwashers.

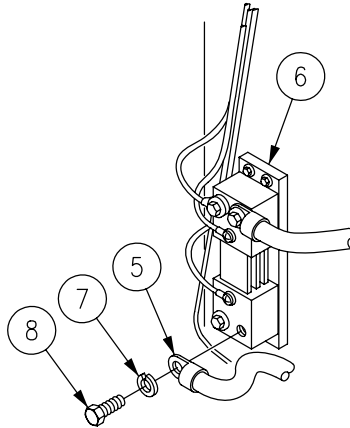


INSTALLATION

1. Install distribution box (6). Secure with four new lockwashers (8) and screws (7).
2. Install electrical connector (5) on distribution box (6).



3. Remove tape from negative battery lead (5). Install battery lead on shunt (6). Secure with new lockwasher (7) and screw (8).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground lead (WP 0338 00).

END OF TASK

REPLACE MSD/ICE DISTRIBUTION BOX (M1064A3 ONLY)

0877 00

THIS WORK PACKAGE COVERS:

Removal (page 0877 00-1).
 Installation (page 0877 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Battery ground strap disconnected (WP 0337 00)

Materials/Parts

Lockwasher (4)

Lockwasher (2)

Tape

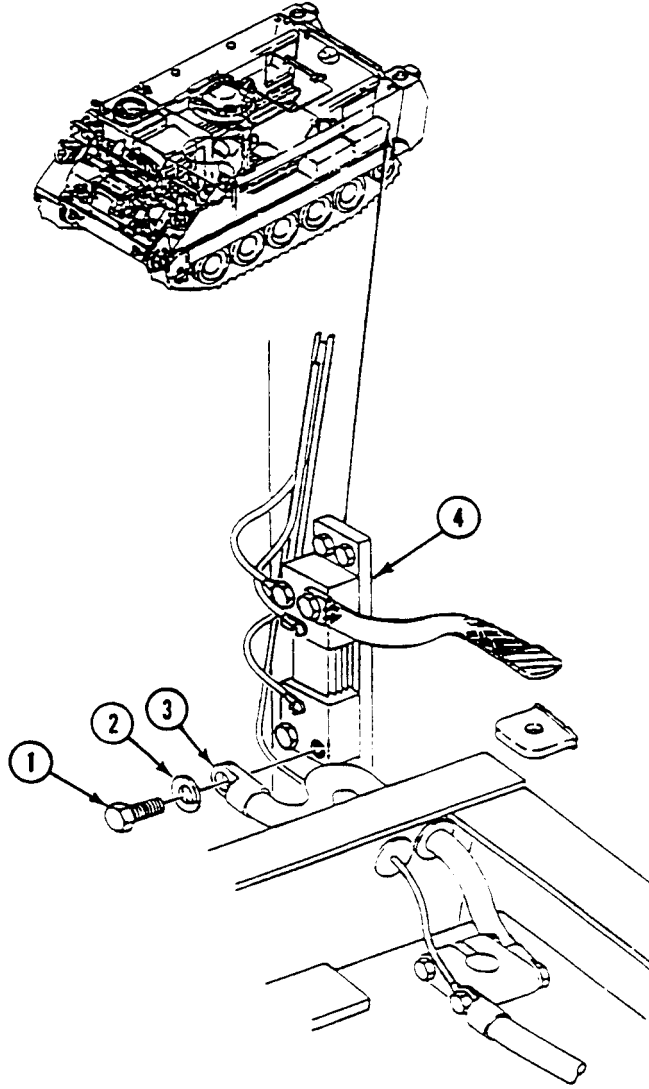
REMOVAL

WARNING



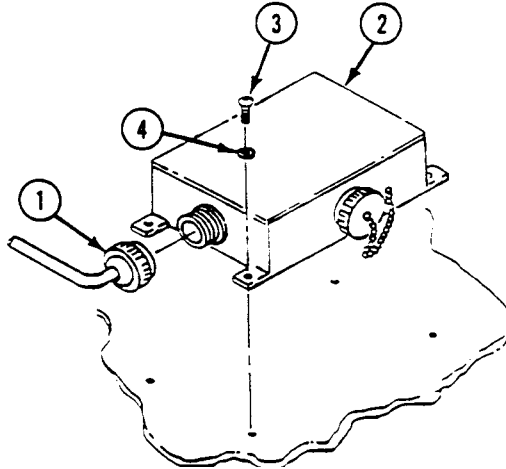
Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

1. Remove two screws (1), lockwashers (2), and negative battery leads (3) from shunt (4). Tape battery leads. Discard lockwashers.

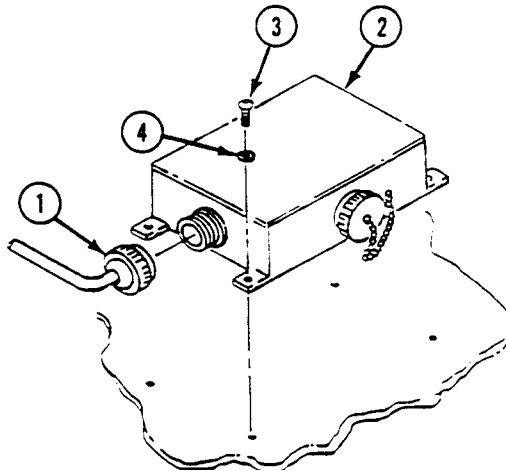


REPLACE MSD/ICE DISTRIBUTION BOX (M1064A3 ONLY) — Continued**0877 00**

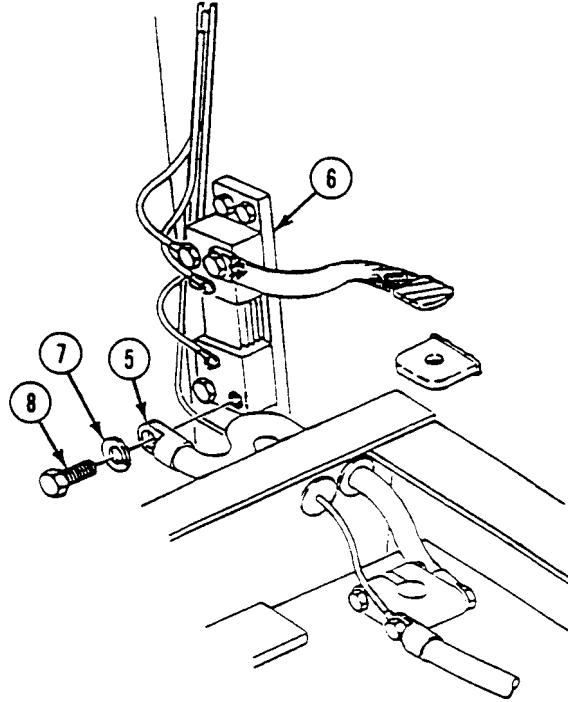
2. Remove electrical connector (1) from distribution box (2).
3. Remove four screws (3), lockwashers (4), and distribution box (2). Discard lockwashers.

**INSTALLATION**

1. Install distribution box (2). Secure with four new lockwashers (4) and screws (3).
2. Install electrical connector (1) in distribution box (2).



3. Untape and install two negative battery leads (5) on shunt (6). Secure with two new lockwashers (7) and screws (8).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground strap (WP 0337 00).

END OF TASK

REPLACE MSD/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY)

0878 00

THIS WORK PACKAGE COVERS:

- Removal (page 0878 00-1).
- Inspection (page 0878 00-4).
- Repair (page 0878 00-4).
- Installation (page 0878 00-4).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic
Helper (H)

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)
- Socket wrench set (WP 0926 00, Item 70)

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant front access door opened (TM 9-2350-277-10)
- Battery covers removed (TM 9-2350-277-10)
- Shunt guard removed (WP 0868 00)
- Shunt leads removed (WP 0870 00)

Materials/Parts

- Locknut (4)
- Lockwasher (21)

REMOVAL

WARNING

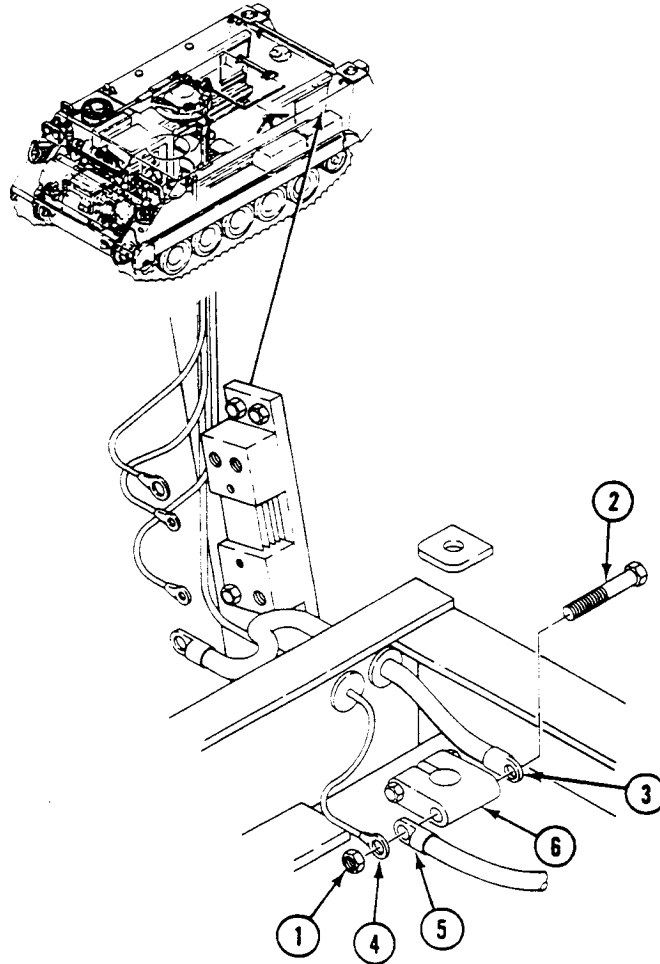


Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

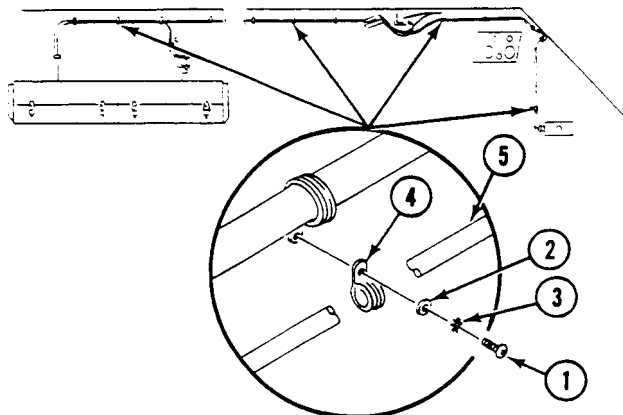
REPLACE MSD/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY) — Continued

0878 00

1. Remove nut (1), screw (2), battery ground cable (3), lead 779 (4), and battery cable (5) from battery terminal (6).



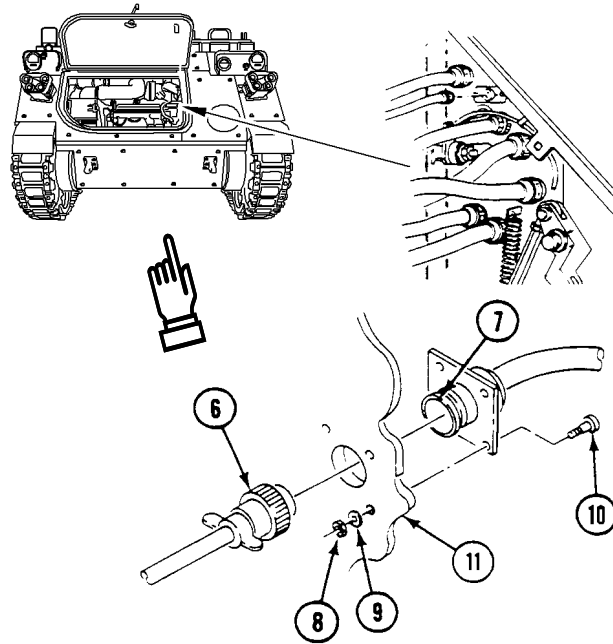
2. Remove 21 screws (1), washers (2), lockwashers (3), and clamps (4) that secure wiring harness (5) to hull. Discard lockwashers.



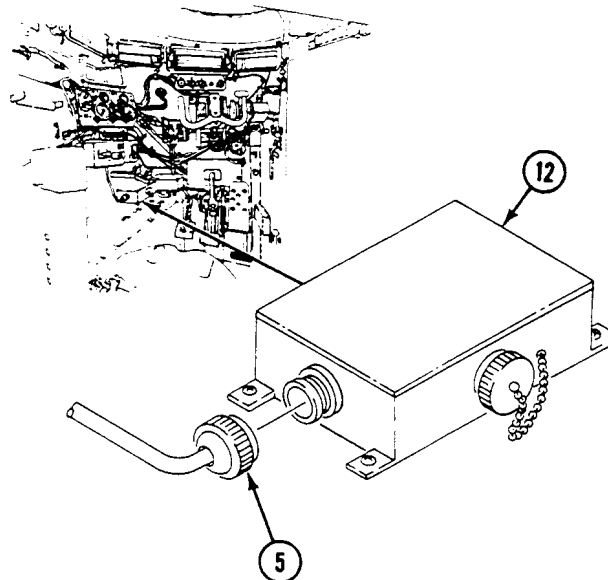
REPLACE MSD/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY) — Continued

0878 00

3. Disconnect plug (6) from connector (7) in power plant compartment.
4. Remove four locknuts (8), washers (9), screws (10), and connector (7) from bulkhead (11). Discard locknuts. Have helper assist.



5. Unplug wiring harness (5) from distribution box (12). Remove harness.



REPLACE MSD/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY) — Continued

0878 00

INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

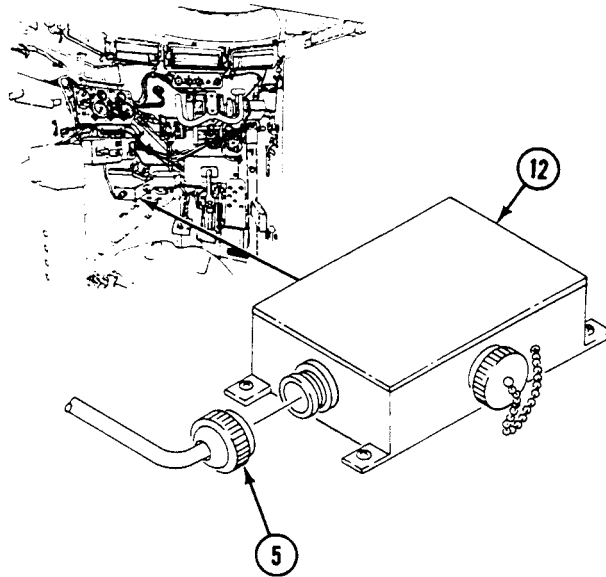
1. Check leads for continuity. Use multimeter.
2. Check connectors.

REPAIR OR REPLACEMENT

1. Replace bad leads.
2. If damaged, replace cracked or broken connectors (WP 0382 00).

INSTALLATION

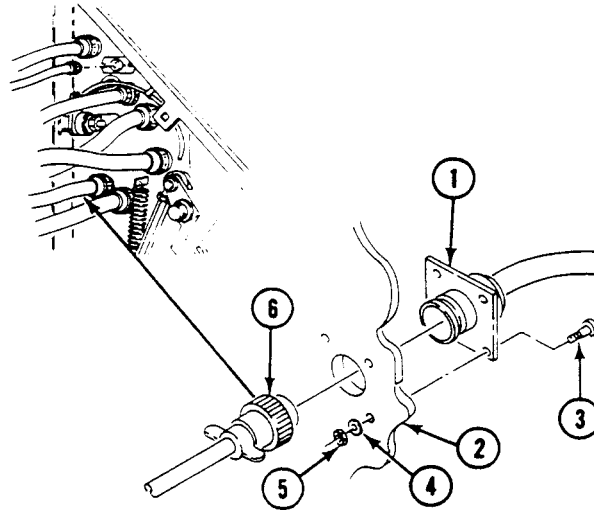
1. Plug wiring harness (5) into distribution box (12), then route harness into position.



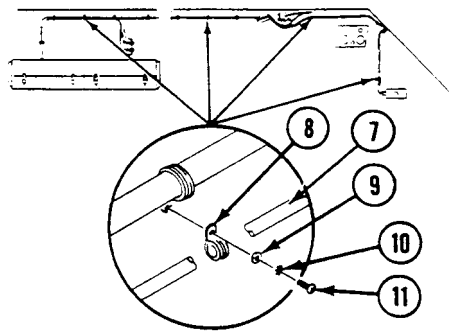
REPLACE MSD/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY) — Continued

0878 00

2. Install connector (1) on bulkhead (2) in power plant compartment. Secure with four screws (3), washers (4), and new locknuts (5).
3. Connect plug (6) to connector (1).



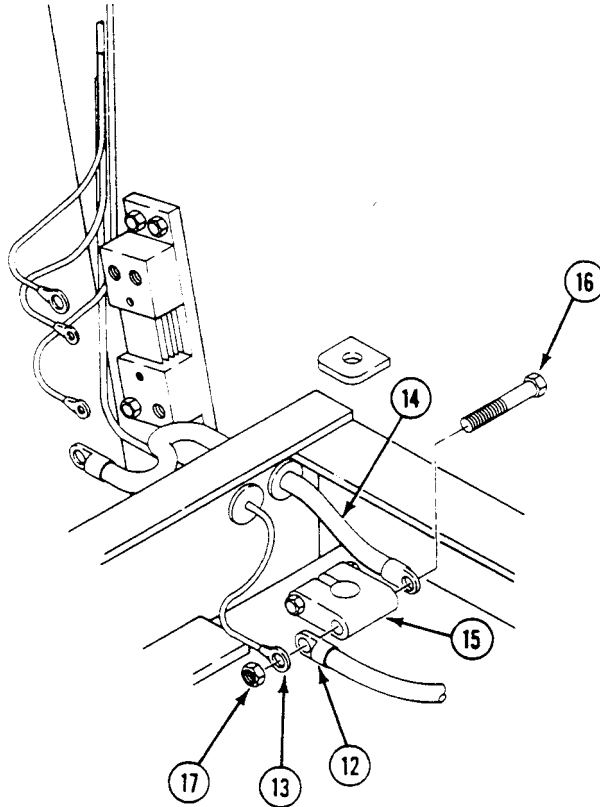
4. Position wiring harness (7) along hull. Secure with 21 clamps (8), washers (9), new lockwashers (10), and screws (11). Have helper assist.



REPLACE MSD/ICE CREW WIRING HARNESS (M113A3 AND M1059A3 ONLY) — Continued

0878 00

5. Install battery ground lead (12), lead 779 (13), and battery ground lead (14) on battery terminal (15). Secure with screw (16) and nut (17).

**FOLLOW-THROUGH STEPS**

1. Install shunt leads (WP 0870 00).
2. Install shunt guard (WP 0868 00).
3. Install battery box covers. See TM 9-2350-277-10.
4. Close power plant front access door. See TM 9-2350-277-10.

END OF TASK

REPLACE MSD/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY)

0879 00

THIS WORK PACKAGE COVERS:

- Removal (page 0879 00-1).
- Inspection-Acceptance and Rejection Criteria (page 0879 00-4).
- Repair or Replacement (page 0879 00-5).
- Installation (page 0879 00-5).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Cord

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant front access door opened (TM 9-2350-277-10)

Battery covers removed (TM 9-2350-277-10)

Shunt leads removed (WP 0871 00)

Materials/Parts

Locknut (4)

Lockwasher

Tie strap (8)

REMOVAL

WARNING

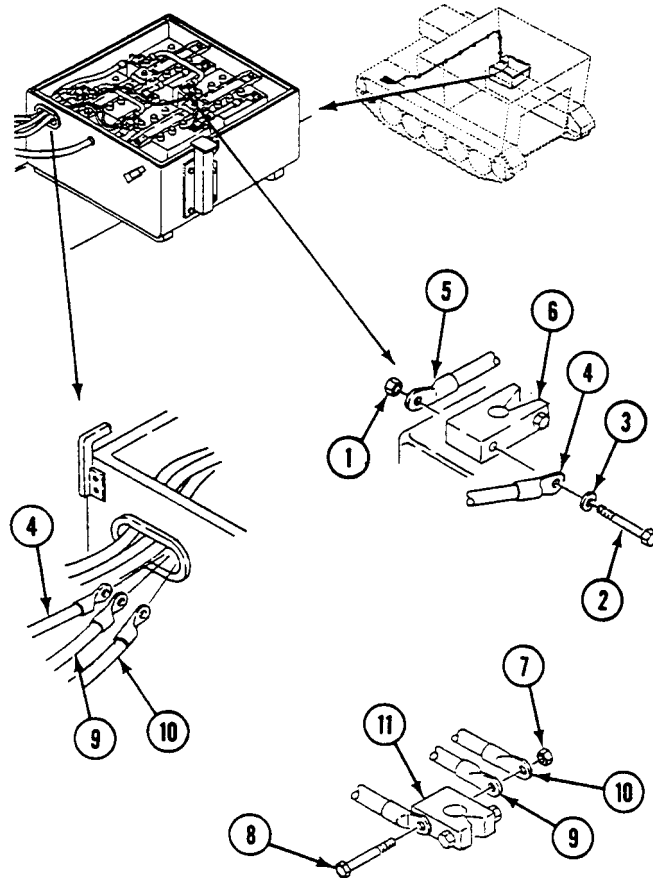


Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

REPLACE MSD/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) — Continued

0879 00

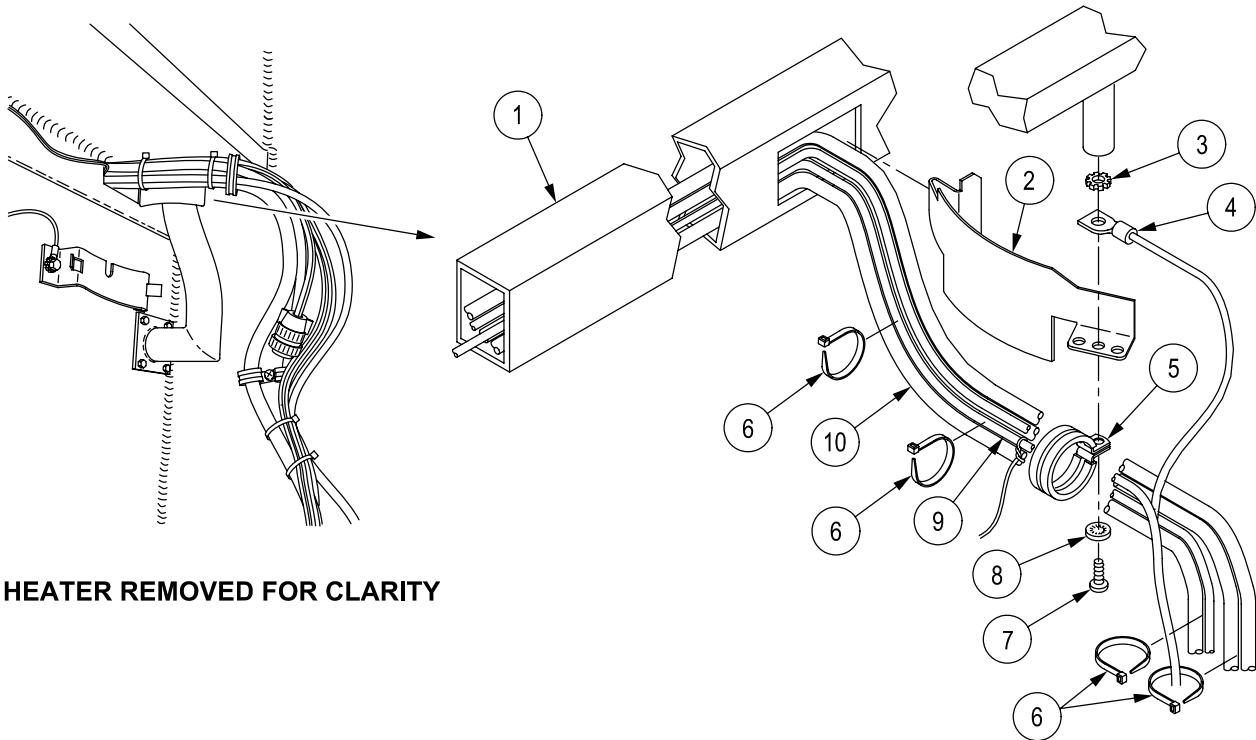
1. Remove nut (1), screw (2), washer (3), lead 779 (4), and battery cable (5) from battery terminal (6).
2. Remove nut (7), screw (8), lead 772 (9), and lead 778 (10) from battery terminal (11).
3. Remove lead 779 (4), lead 772 (9), and lead 778 (10) from battery box.



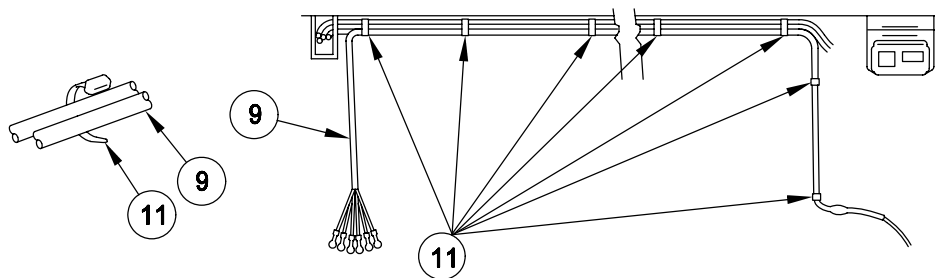
REPLACE MSD/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) — Continued

0879 00

4. Remove four tie straps (6), screw (7), lockwasher (8), lockwasher (3), and clamp (5), harness (9), cables (10) and compartment heater ground wire (4) from guide (2). Discard tie straps and lockwashers.
5. Attach cord securely to harness (9). Pull harness (9) through transverse beam (1) from opposite side of carrier. Remove cord from harness (9) and leave hanging from both ends of transverse beam (1) to use when reinstalling harness.



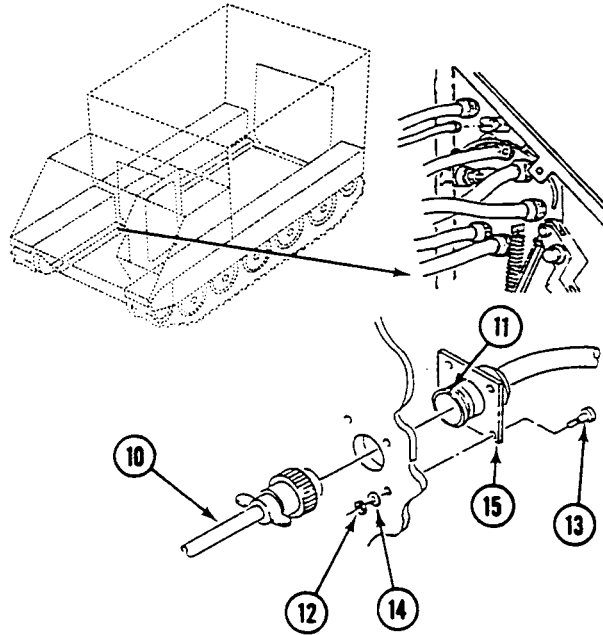
6. Remove seven tie straps (11) from harness (9). Discard tie straps.



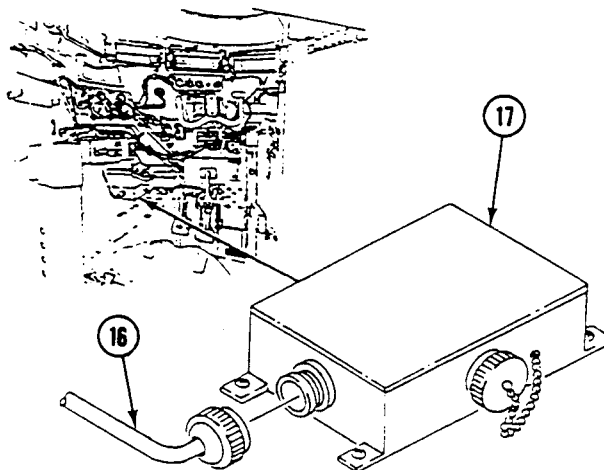
REPLACE MSD/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) — Continued

0879 00

7. Disconnect plug (10) from connector (11) in power plant compartment.
8. Remove four locknuts (12), screws (13), washers (14), and connector (15) from bulkhead. Have helper assist. Discard locknuts.



9. Unplug wiring harness (16) from distribution box (17). Remove harness.


INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

1. Check leads for continuity. Use multimeter.
2. Check connectors.

REPLACE MSD/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) — Continued

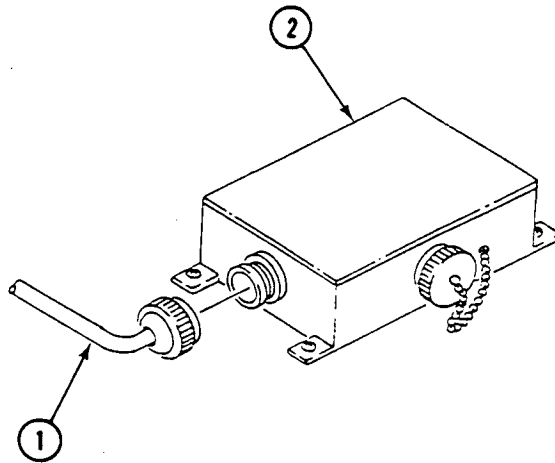
0879 00

REPAIR OR REPLACEMENT

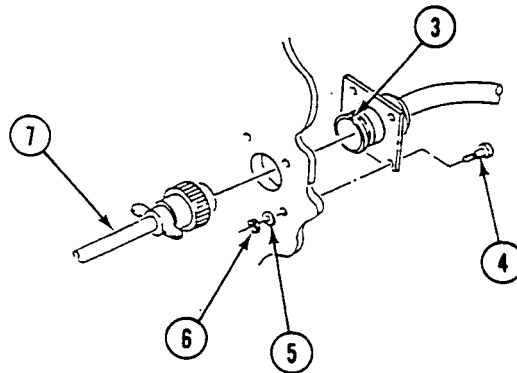
1. Replace bad leads.
2. If damaged, replace cracked or broken connectors (WP 0382 00).

INSTALLATION

1. Plug wiring harness (1) into distribution box (2). Position harness on hull.



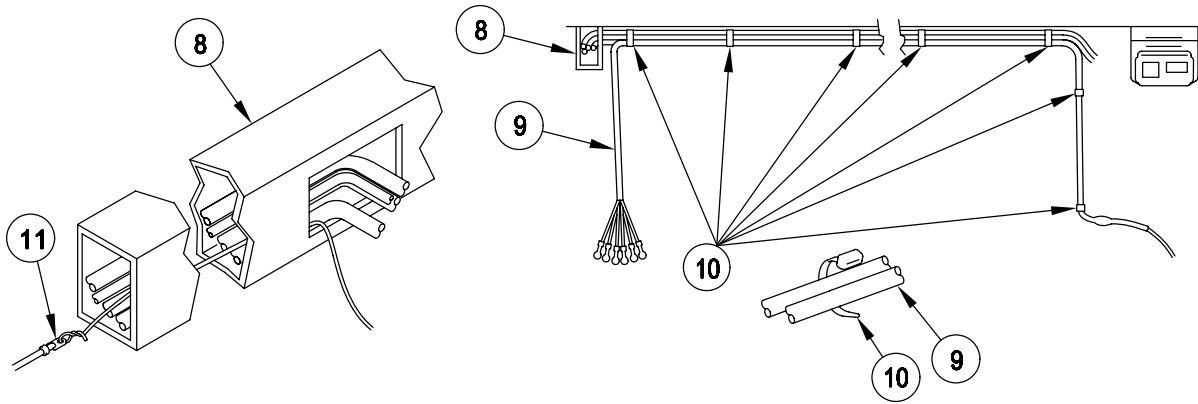
2. Install connector (3) on bulkhead in power plant compartment. Secure with four screws (4), washers (5), and new locknuts (6). Have helper assist.
3. Connect plug (7) to connector (3).



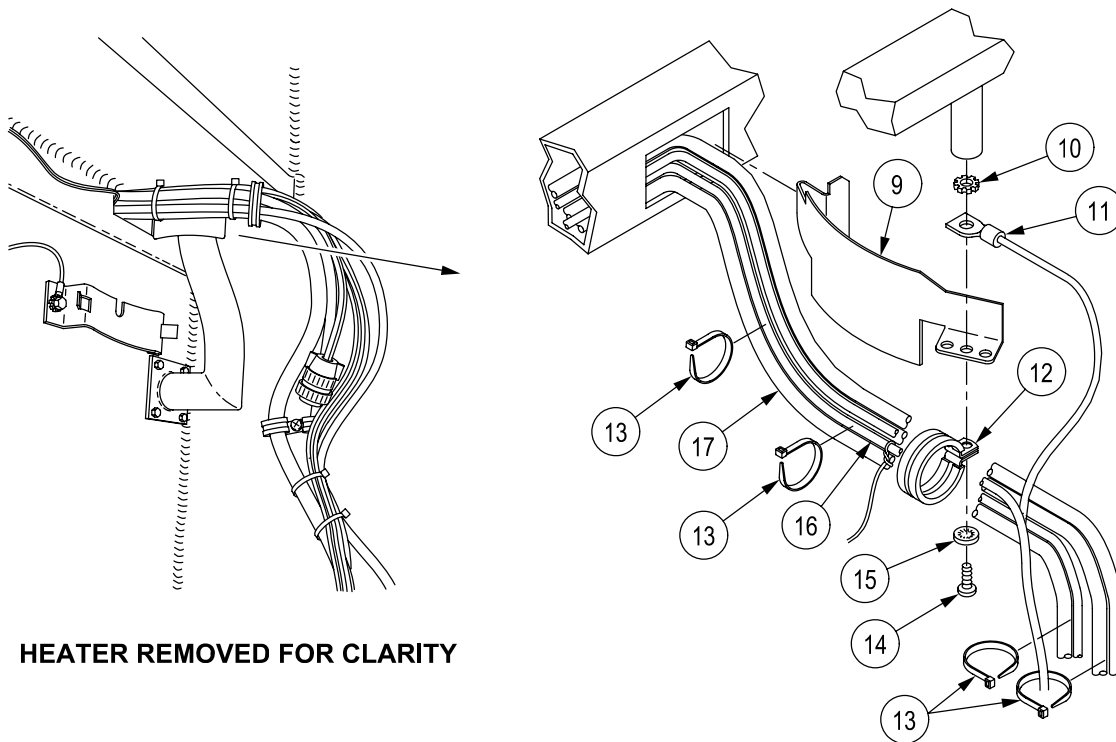
REPLACE MSD/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) — Continued

0879 00

4. Install harness (9) along left side of hull. Secure with seven new tie straps (10).
5. Secure cord to battery end of harness (11). Pull cord and harness (11) through transverse beam (8) from opposite side of carrier. Remove cord from harness (11).

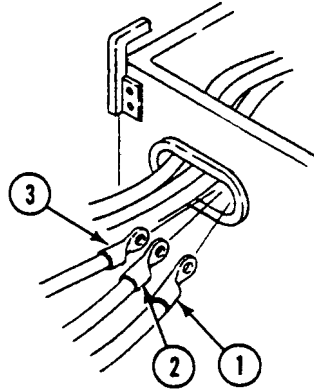


6. Position wiring harness (16) in front of guide (9) and along hull. Secure guide (9), harness (16), cable (17), and compartment heater ground wire (11), with clamp (12), new lockwasher (15), new lockwasher (10), screw (14), and four new tie straps (13).

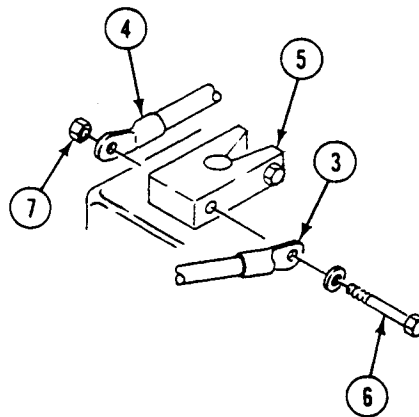


REPLACE MSD/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) — Continued

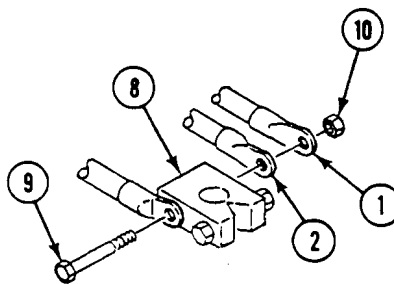
7. Route lead 778 (1), lead 772 (2), and lead 779 (3) into battery box.



8. Install lead 779 (3) and battery ground lead (4) on battery terminal (5). Secure with screw (6) and nut (7).



9. Install lead 772 (2) and lead 778 (1) on battery terminal (8). Secure with screw (9) and nut (10).



REPLACE MSD/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY) — Continued

0879 00

FOLLOW-THROUGH STEPS

1. Install shunt leads (WP 0871 00).
2. Install battery box covers. See TM 9-2350-277-10.
3. Close power plant front access door. See TM 9-2350-277-10.

END OF TASK

REPLACE MSD/ICE CREW WIRING HARNESS (M1064A3 ONLY)

0881 00

THIS WORK PACKAGE COVERS:

- Removal (page 0881 00-1).
- Inspection (page 0881 00-4).
- Repair (page 0881 00-4).
- Installation (page 0881 00-5).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic
Helper (H)

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)
- Socket wrench set (WP 0926 00, Item 70)

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant front access door opened (TM 9-2350-277-10)
- Battery draw pulled out (TM 9-2350-277-10)
- Shunt leads removed (WP 0873 00)

Materials/Parts

- Locknut (4)
- Lockwasher (8)

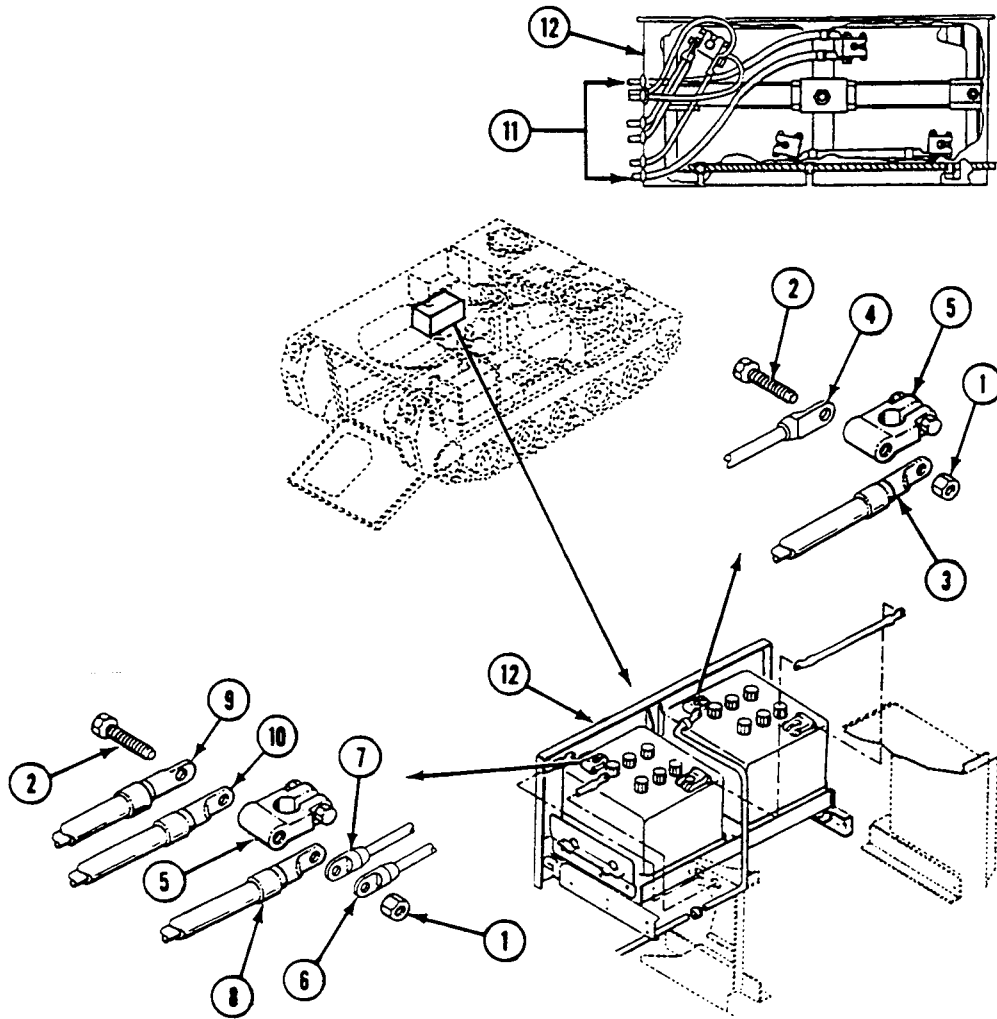
REMOVAL

WARNING



Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

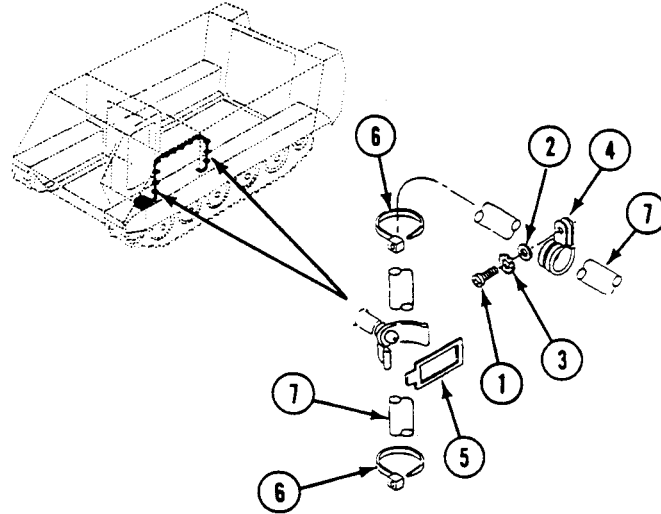
1. Remove nut (1), screw (2), battery ground cable (3), and lead 779 (4) from battery terminal (5).
2. Remove nut (1), screw (2), two leads 772/778 (6) and (7), lead 6 (8), lead 6P (9), and lead 48 (10) from battery terminal (5).
3. Remove seven leads and grommets (11) from battery box (12).



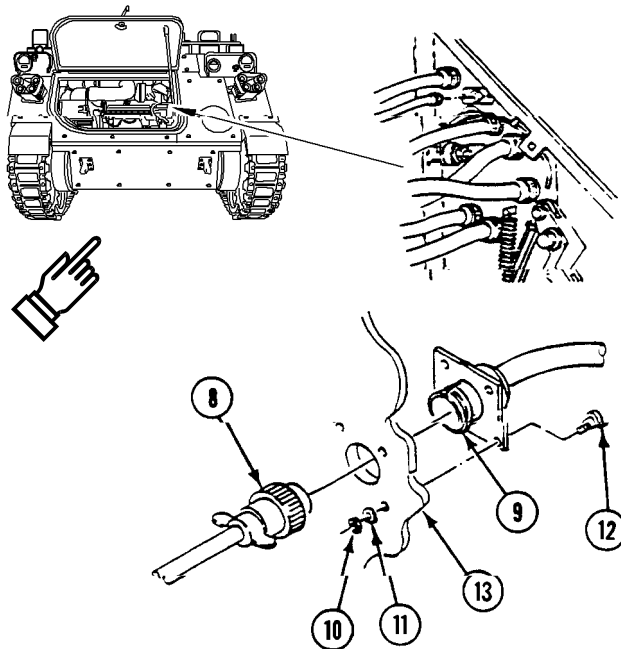
REPLACE MSD/ICE CREW WIRING HARNESS (M1064A3 ONLY) — Continued

0881 00

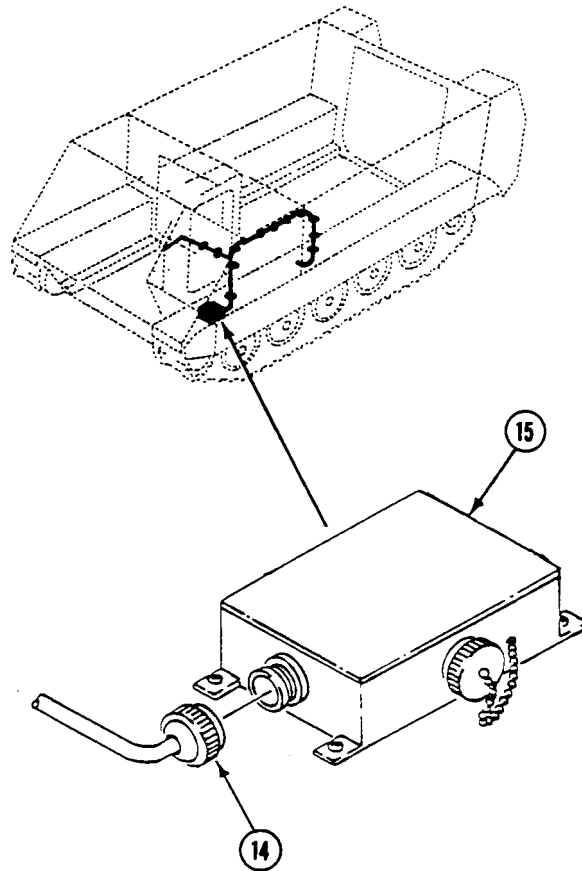
4. Remove eight screws (1), washers (2), lockwashers (3), clamps (4), one clip (5), and straps (6) that secure wiring harness (7) to hull. Discard lockwashers.



5. Disconnect plug (8) from jack (9) in power plant compartment.
6. Remove four locknuts (10), washers (11), screws (12), and jack (9) from bulkhead (13). Discard locknuts. Have helper assist.



7. Unplug wiring harness (14) from distribution box (15). Remove harness.



INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

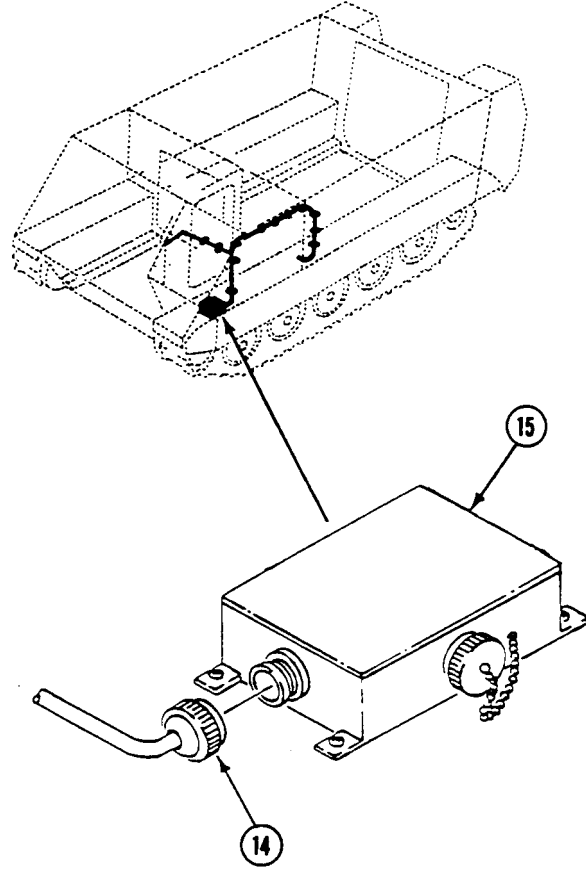
1. Check leads for continuity. Use multimeter.
2. Check connectors.

REPAIR OR REPLACEMENT

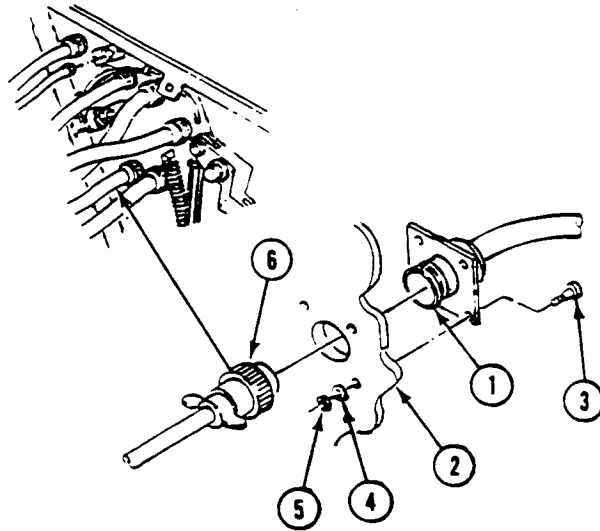
1. Replace bad leads.
2. If damaged, replace cracked or broken connectors (WP 0382 00).

INSTALLATION

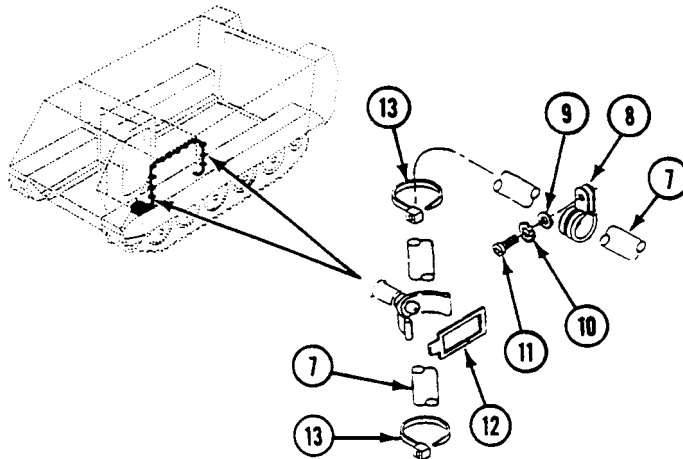
1. Plug wiring harness (14) into distribution box (15), then route harness into position.



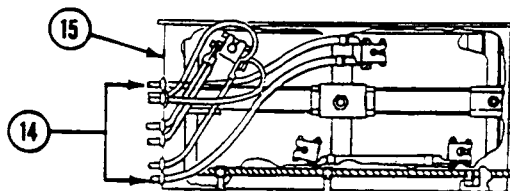
2. Install jack (1) on bulkhead (2) in power plant compartment. Secure with four screws (3), washers (4), and new locknuts (5).
3. Connect plug (6) to jack (1).



4. Position wiring harness (7) along hull. Secure with eight clamps (8), washers (9), new lockwashers (10), screws (11), one clip (12), and straps (13). Have helper assist. Use socket wrench.



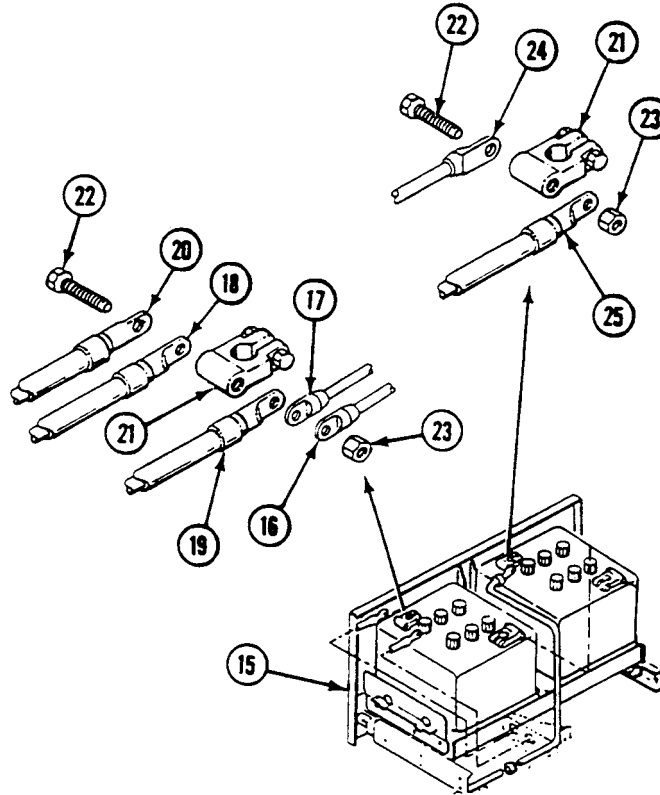
5. Install seven leads and grommets (14) in battery box (15).



REPLACE MSD/ICE CREW WIRING HARNESS (M1064A3 ONLY) — Continued

0881 00

6. Install leads 772 (16), 778 (17), 48 (18), 6 (19), and 6P (20) on battery terminal (21). Secure with screw (22) and nut (23).
7. Install lead 779 (24) and battery ground lead (25) on battery terminal (21). Secure with screw (22) and nut (23).



FOLLOW-THROUGH STEPS

1. Push battery draw in. See TM 9-2350-277-10.
2. Install shunt leads (WP 0873 00).
3. Close power plant front access door. See TM 9-2350-277-10.

END OF TASK

REPLACE MSD/ICE ENGINE WIRING HARNESS

0882 00

THIS WORK PACKAGE COVERS:

- Removal (page 0882 00-1).
- Inspection (page 0882 00-4).
- Repair (page 0882 00-5).
- Installation (page 0882 00-5).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

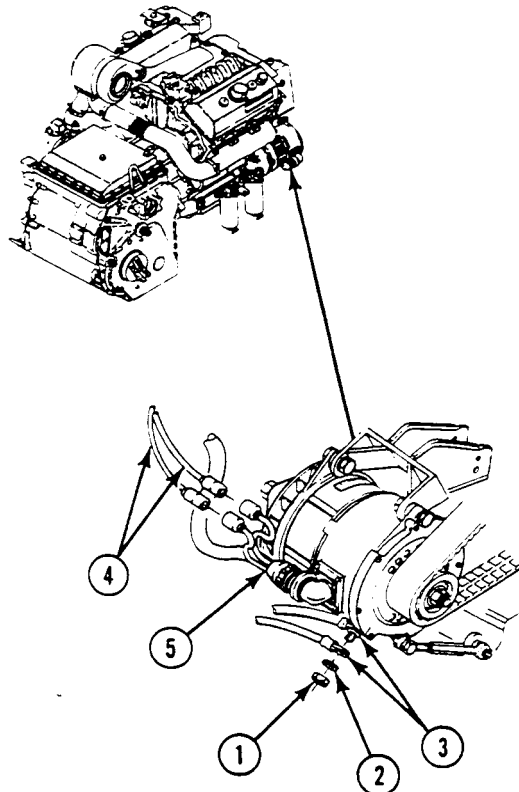
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant removed (WP 0156 00)

Materials/Parts

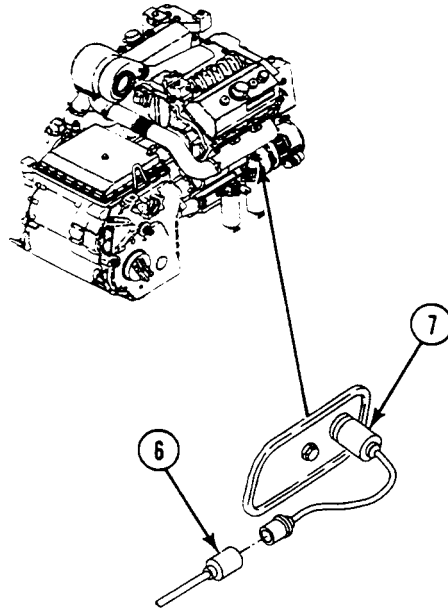
- Lockwasher (4)
- Strap
- Strap (3)

REMOVAL

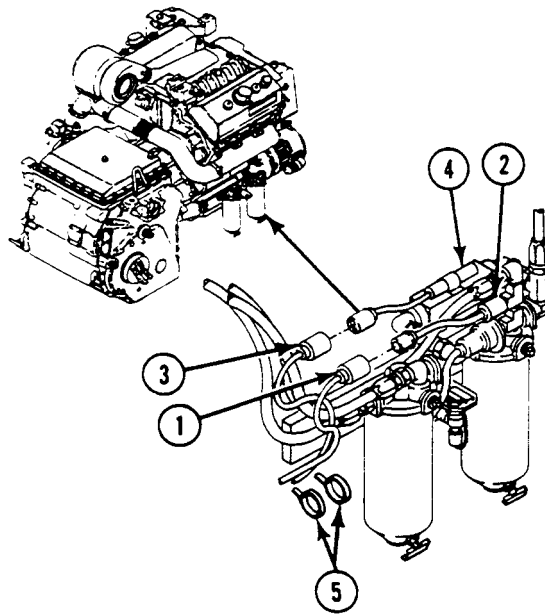
1. Remove nut (1), lockwasher (2), and two ground leads (3) from generator. Discard lockwasher.
2. Disconnect leads (4) from generator main cable (5).



3. Disconnect lead (6) from airbox pressure transducer (7).



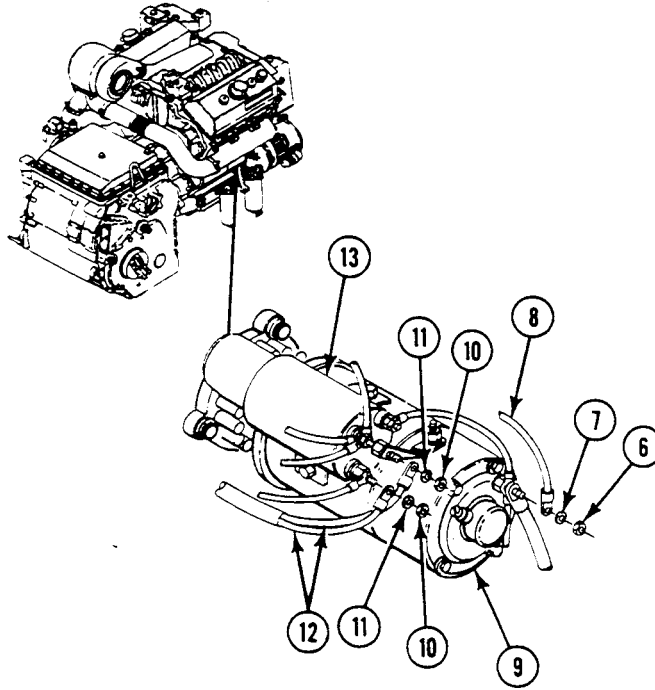
4. Disconnect lead (1) from fuel supply pressure transducer (2).
5. Disconnect lead (3) from fuel filter differential pressure switch (4).
6. Remove two tie straps (5) from harness. Discard straps.



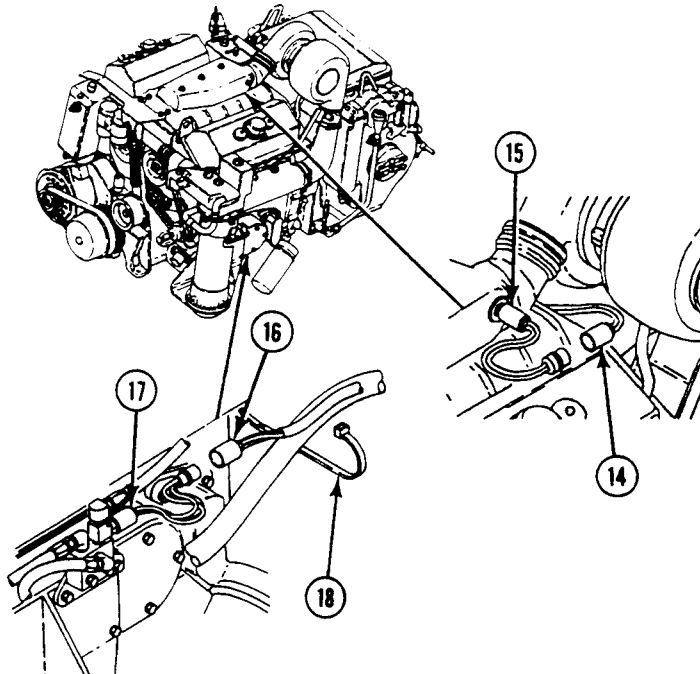
REPLACE MSD/ICE ENGINE WIRING HARNESS — Continued

0882 00

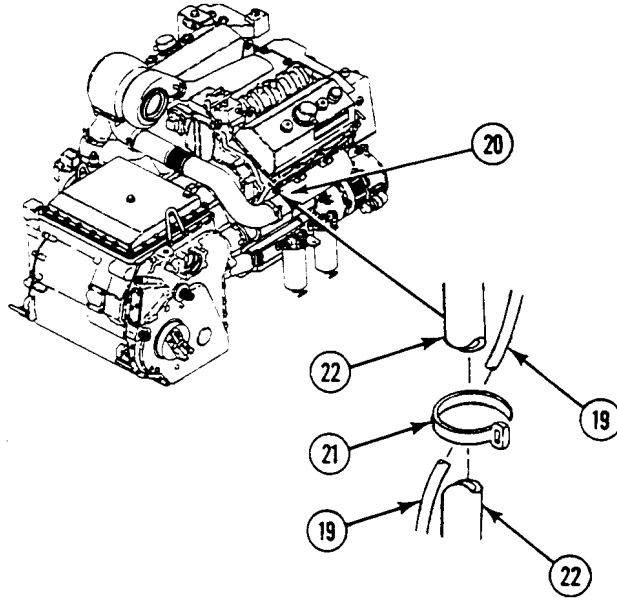
7. Remove nut (6), lockwasher (7), and leads (8) from starter (9). Discard lockwasher.
8. Remove two nuts (10), lockwashers (11), and leads (12) from starter solenoid (13) terminal. Discard lockwashers.



9. Disconnect lead (14) from turbo outlet pressure switch (15).
10. Disconnect lead (16) from fuel return pressure switch (17).
11. Remove tie strap (18) from harness. Discard strap.



12. Disconnect lead (19) from pulse tachometer (20).
13. Cut and remove strap (21) from lead (19) and hydraulic hose (22). Discard strap. Remove harness from engine.

**INSPECTION-ACCEPTANCE AND REJECTION CRITERIA**

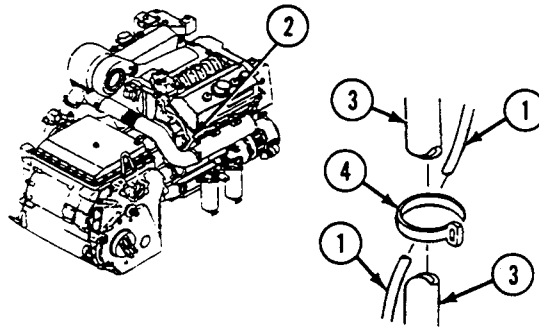
1. Check connectors.
2. Check leads for continuity.

REPAIR OR REPLACEMENT

1. If damaged, repair terminals and connectors (WP 0382 00).
2. Replace bad leads.

INSTALLATION

1. Connect harness lead (1) to pulse tachometer (2).
2. Secure lead (1) to hydraulic hose (3) and new tie strap (4).

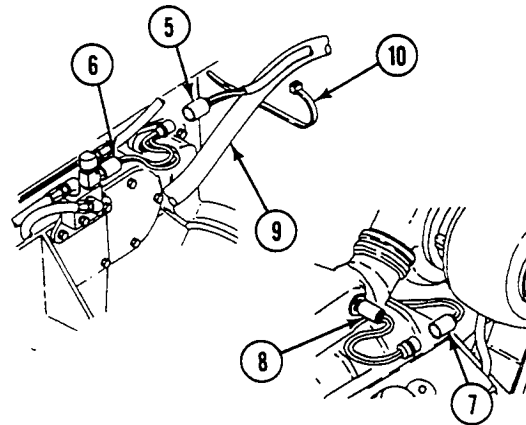


3. Connect lead (5) to fuel return pressure switch (6).
4. Connect lead (7) to turbo outlet pressure switch (8).

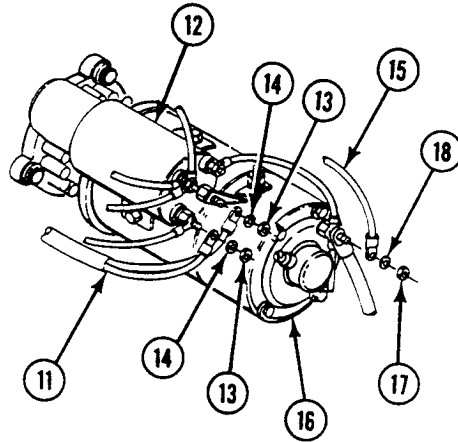
CAUTION

Excess heat can cause fuel return pressure switch to leak. Leaking fuel can catch fire and cause equipment damage. Make sure electrical lead is secured away from exhaust duct.

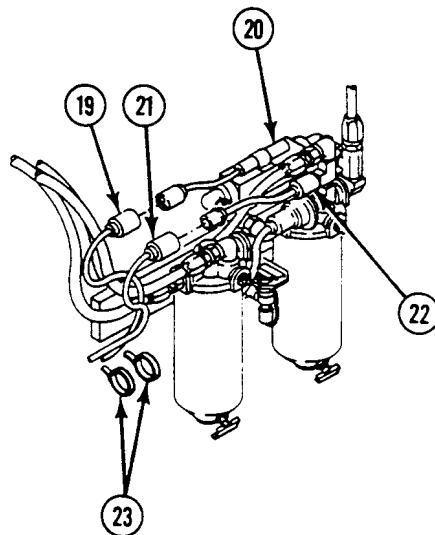
5. Secure lead (5) to lead (9) with new tie strap (10).



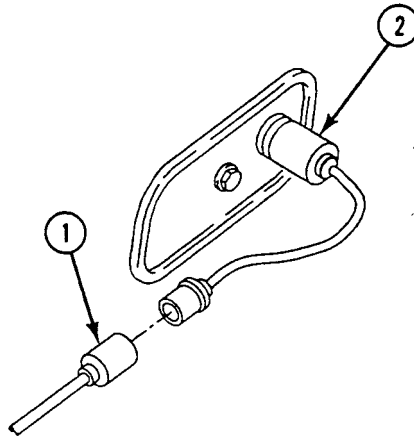
6. Install leads (11) on starter solenoid (12) terminal. Secure with two nuts (13) and new lockwashers (14).
7. Install leads (15) on starter (16) terminals. Secure with nut (17) and new lockwasher (18).



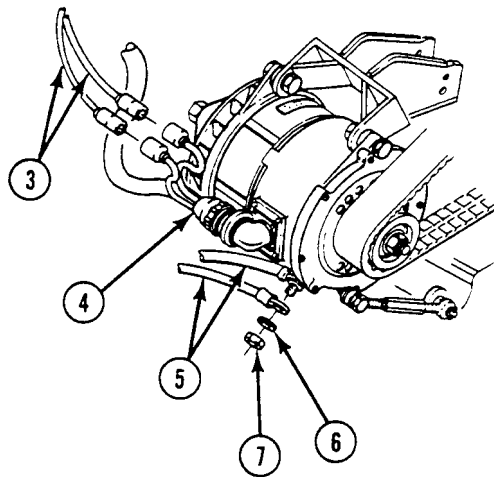
8. Connect lead (19) to fuel filter differential pressure switch (20).
9. Connect lead (21) to fuel supply pressure transducer (22).
10. Secure harness to engine with two new tie straps (23).



11. Connect lead (1) to airbox pressure transducer (2).



12. Connect leads (3) to generator main cable (4).
13. Install ground leads (5) on generator. Secure with new lockwasher (6) and nut (7).



FOLLOW-THROUGH STEPS

1. Install power plant (WP 0156 00).

END OF TASK

CHAPTER 28

UNIT MAINTENANCE INSTRUCTIONS
FOR COMMUNICATION SYSTEM (M58 ONLY)

WORK PACKAGE INDEX

<u>Title</u>	<u>Sequence No.</u>
DELETED.....	.0883 00
COMMUNICATION CABLING DIAGRAM (M58 ONLY).....	.0884 00
REPLACE INTERCOMMUNICATIONS SET CONTROL (M58 ONLY).....	.0885 00
DELETED.....	.0886 00
REPLACE AS3916/VRC ANTENNA (M58 ONLY).....	.0887 00
REPLACE INTERCOM AMPLIFIER (M58 ONLY).....	.0888 00
DELETED.....	.0889 00
DELETED.....	.0890 00
REPLACE RADIO RACK (M58 ONLY).....	.0891 00
REPLACE DRIVER'S INTERCOMMUNICATION SET CABLE (M58 ONLY).....	.0892 00
REPLACE COMMANDER'S INTERCOMMUNICATION SET CABLE (M58 ONLY).....	.0893 00
REPLACE OPERATOR'S INTERCOMMUNICATION SET CABLE (M58 ONLY).....	.0894 00

COMMUNICATION CABLING DIAGRAM (M58 ONLY)

0884 00

THIS WORK PACKAGE COVERS:

INITIAL SETUP:

Maintenance Level

Unit

References

See you -10

Personnel Required

Unit Mechanic

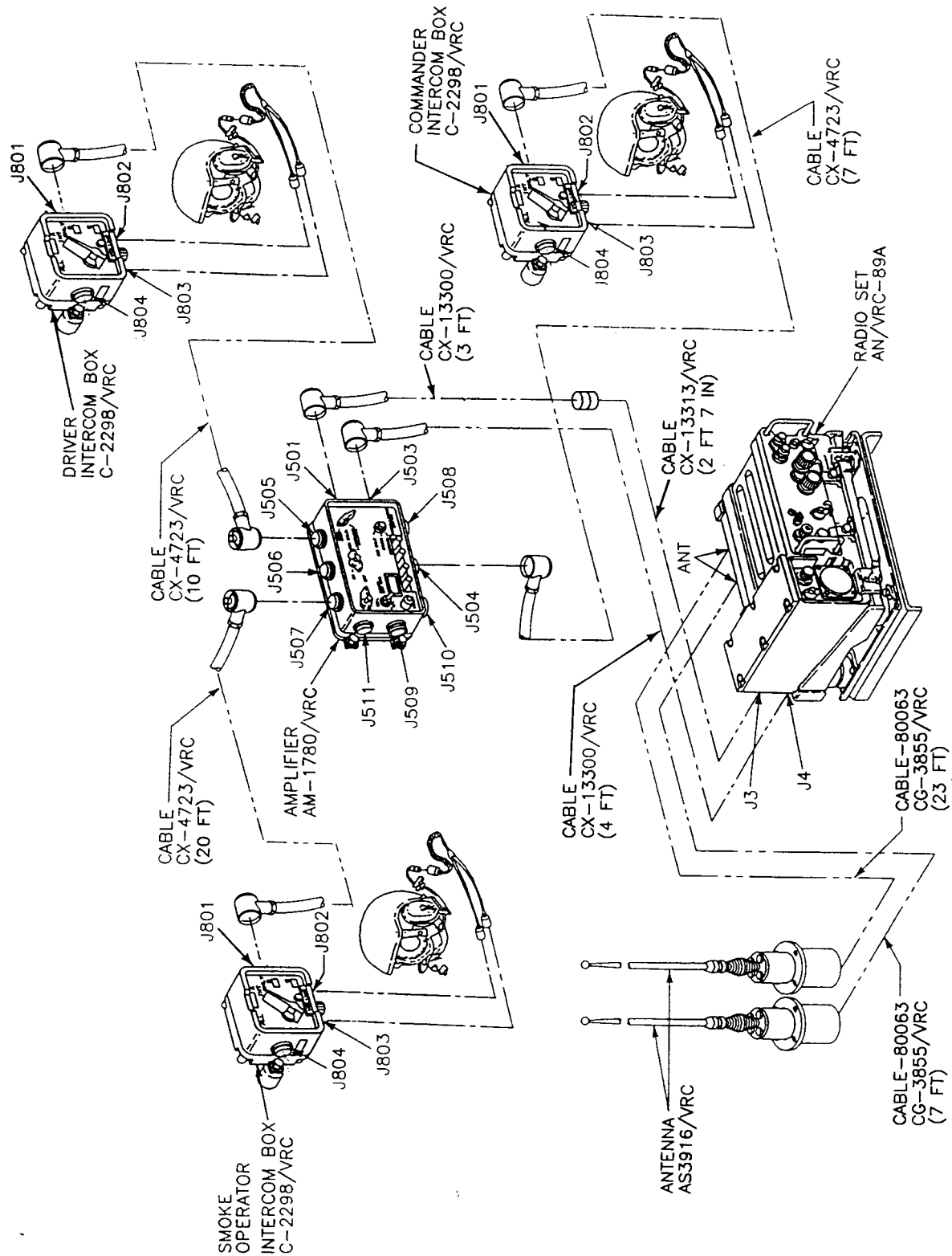
Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

INSPECTION OF INSTALLED ITEMS

This task shows the location of communication cables on all the M58 carrier.



REPLACE INTERCOMMUNICATIONS SET CONTROL (M58 ONLY)

0885 00

THIS WORK PACKAGE COVERS:

Removal (page 0885 00-1).
 Installation (page 0885 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Materials/Parts

Lockwasher (2)

Personnel Required

Signal Support System Specialist 31U10

References

See your -10
 TM 11-5820-498-12

Equipment Condition

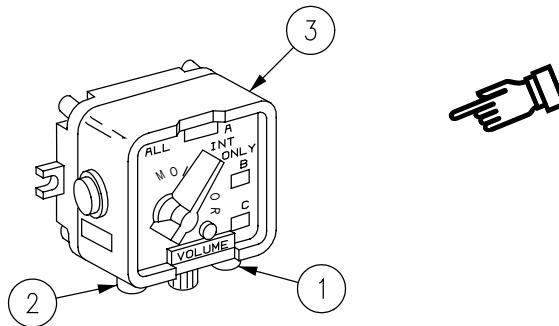
Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Battery ground strap disconnected (WP 0337 00)

REMOVAL

NOTE

Set control location varies by vehicle. Refer to TM 11-5820-498-12 for C-2298/VRC maintenance.

1. Disconnect headset from connector (1) and intercom cable from connector (2) from intercom station (3).

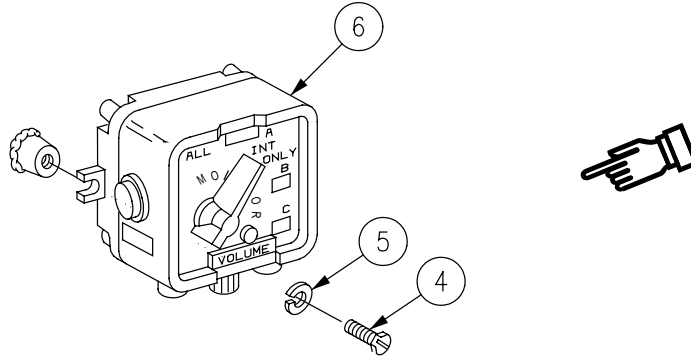


2. Deleted.

REPLACE INTERCOMMUNICATIONS SET CONTROL (M58 ONLY) —
Continued

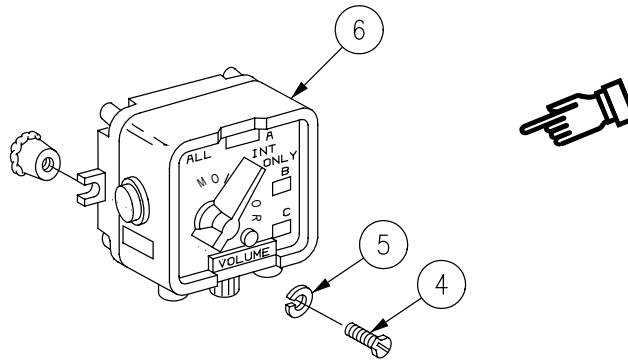
0885 00

3. Remove two screws (4), lockwashers (5), and intercom station (6) from two welded blocks. Discard lockwashers.



INSTALLATION

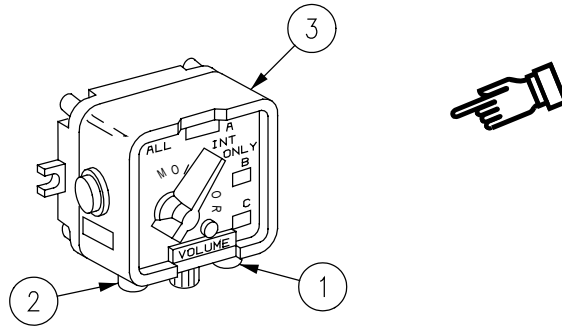
1. Install intercom station (6) on two welded blocks with two new lockwashers (5) and two screws (4).



REPLACE INTERCOMMUNICATIONS SET CONTROL (M58 ONLY) —
Continued

0885 00

2. Deleted.
3. Connect intercom cable to connector (2) and headset to connector (1) on intercom station (3).



FOLLOW-THROUGH STEPS

1. Connect battery ground strap (WP 0337 00).

END OF TASK

REPLACE AS3916/VRC ANTENNA (M58 ONLY)

0887 00

THIS WORK PACKAGE COVERS:

Removal (page 0887 00-1).
 Installation (page 0887 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Signal Support System Specialist 31U10

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

References

See your -10

Materials/Parts

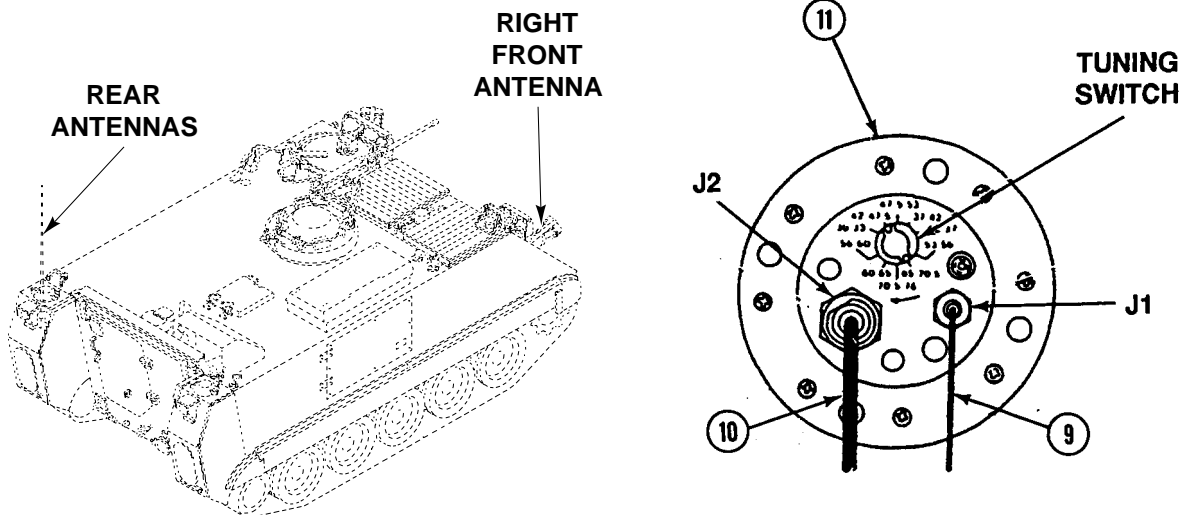
Gasket
 Lockwasher (3)
 Lockwasher (4)

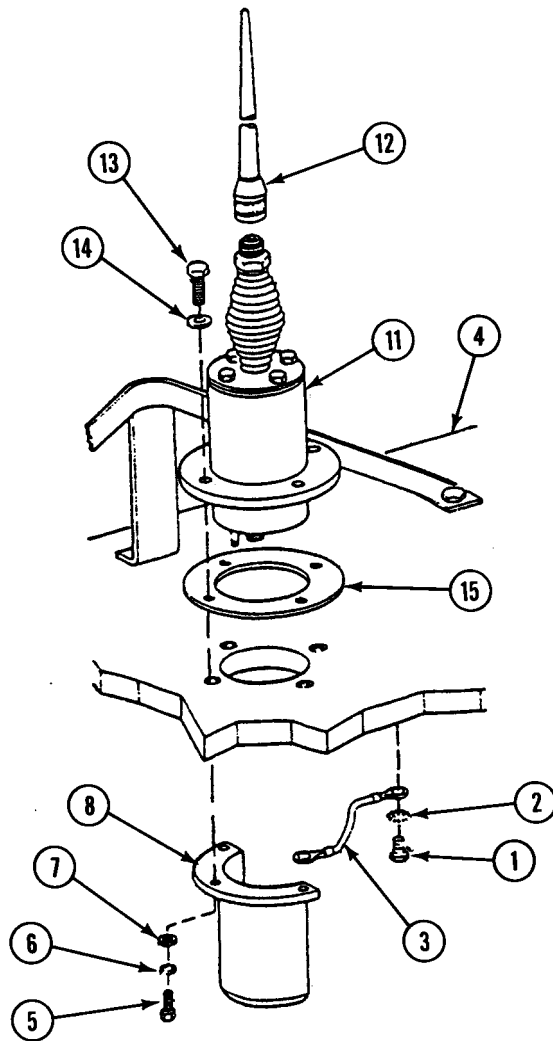
Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Battery ground strap disconnected (WP 0337 00)

REMOVAL

1. Remove screw (1), lockwasher (2), and ground cable (3) from vehicle deck/support base (4). Discard lockwashers.
2. Remove three screws (5) lockwashers (6), washers (7), ground cable (3), and antenna guard (8) from vehicle/support base (4). Discard lockwashers.
3. Disconnect cable (9) from J1 and cable (10) from J2 of antenna (11).
4. Remove antenna mask (12) from antenna (11).
5. Remove four screws (13), lockwashers (14), antenna (11), and gasket (15) from vehicle base/support base (4).





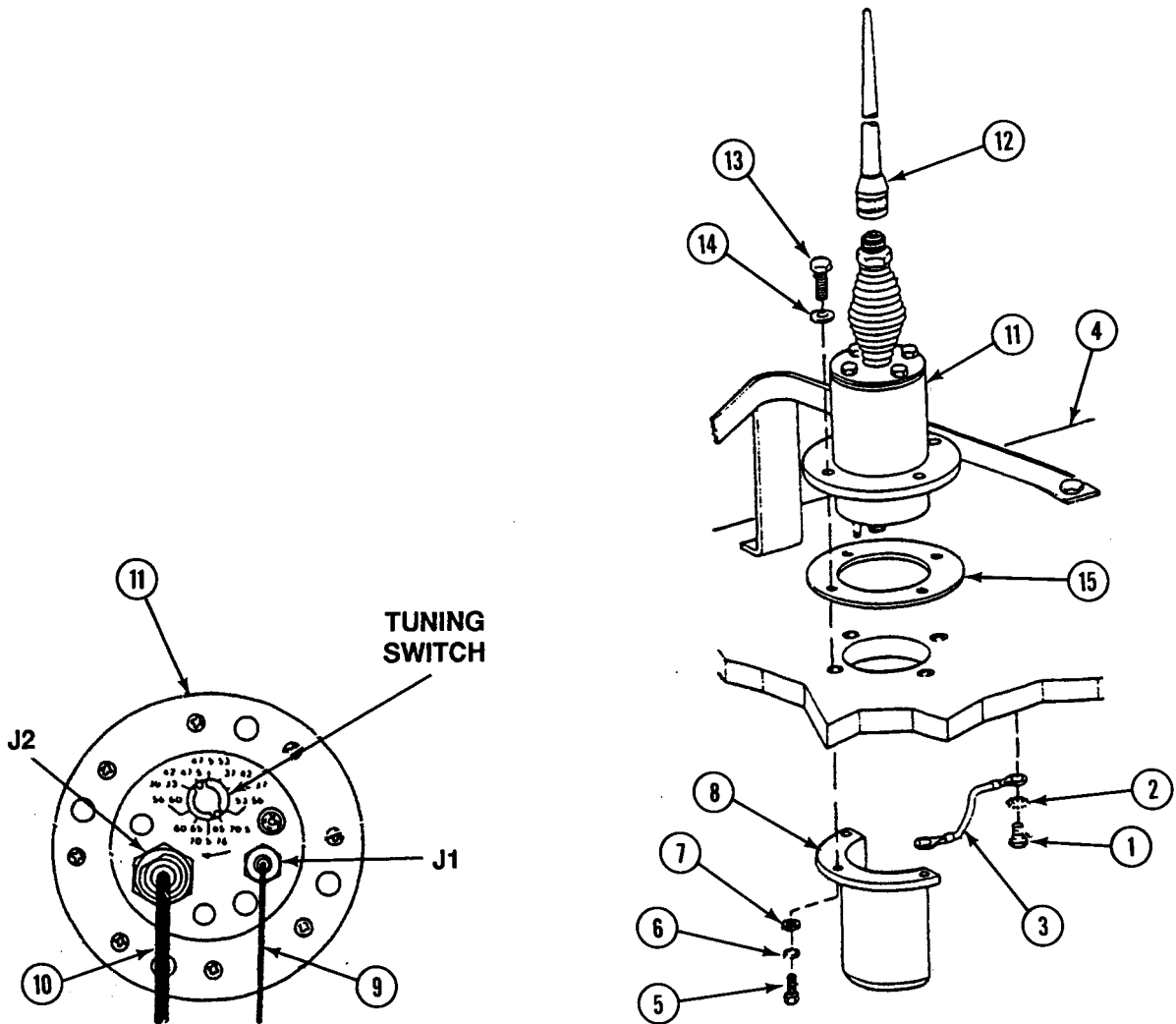
INSTALLATION

1. If the old gasket (15) was damaged, align new gasket over holes. Otherwise, use old gasket.
2. Position antenna (11) on gasket (15) and secure to vehicle deck/support base (4) with four screws (13) and new lockwashers (14).
3. Connect antenna mask (12) to antenna (11).
4. Connect cable (9) to J1 and cable (10) to J2 of antenna (11).

NOTE

One end of ground cable is attached to the vehicle deck/support base and the other is attached to the antenna guard.

5. Install ground cable (3), antenna guard (8), three screws (5), new lockwashers (6), and washers (7) on vehicle deck/support base (4).
6. Connect ground cable (3) to vehicle deck/support base (4) with screw (1) and new lockwasher (2).



FOLLOW-THROUGH STEPS

1. Connect battery ground strap (WP 0337 00).

END OF TASK

REPLACE INTERCOM AMPLIFIER (M58 ONLY)

0888 00

THIS WORK PACKAGE COVERS:

- Removal (page 0888 00-1).
- Installation (page 0888 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-5820-498-12

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
Battery ground strap disconnected (WP 0337 00)

Materials/Parts

Lockwasher (4)

Personnel Required

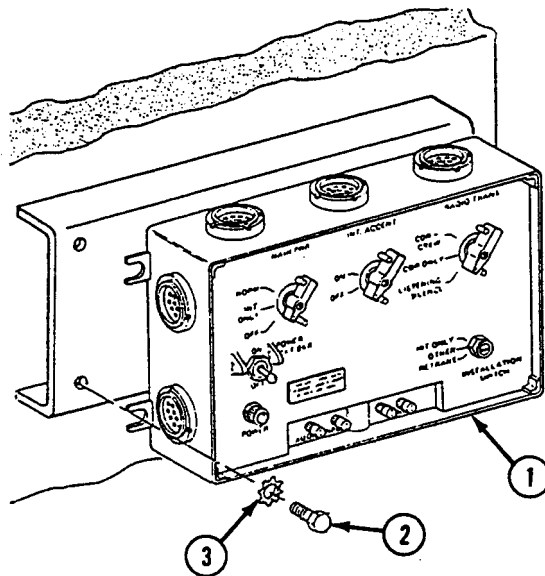
Signal Support System Specialist 31U10

REMOVAL

NOTE

Amplifier location varies by vehicle. Procedures are the same.

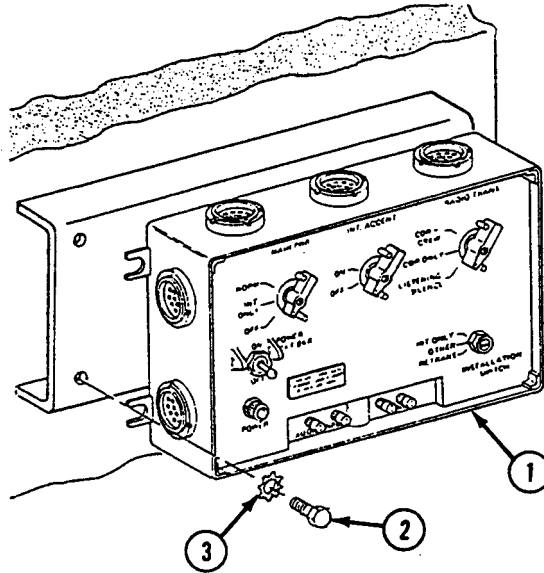
1. Disconnect all cable connectors from intercom amplifier (1).
2. Remove four screws (2), lockwashers (3), and intercom amplifier (1) from carrier. Discard lockwashers.



INSTALLATION**NOTE**

Refer to TM 11-5820-498-12 for AM-1780/VRC maintenance.

1. Install intercom amplifier (1) in carrier. Secure with four new lockwashers (3) and screws (2).
2. Connect all cables to intercom amplifier (1).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground strap (WP 0337 00).

END OF TASK

REPLACE RADIO RACK (M58 ONLY)

0891 00

THIS WORK PACKAGE COVERS:

Removal (page 0891 00-1).
 Installation (page 0891 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-5820-498-12

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Ramp lowered (see your -10)
 Radio and mount removed (TM 11-5820-498-12)

Materials/Parts

Locknut
 Lockwasher

Personnel Required

Unit Mechanic

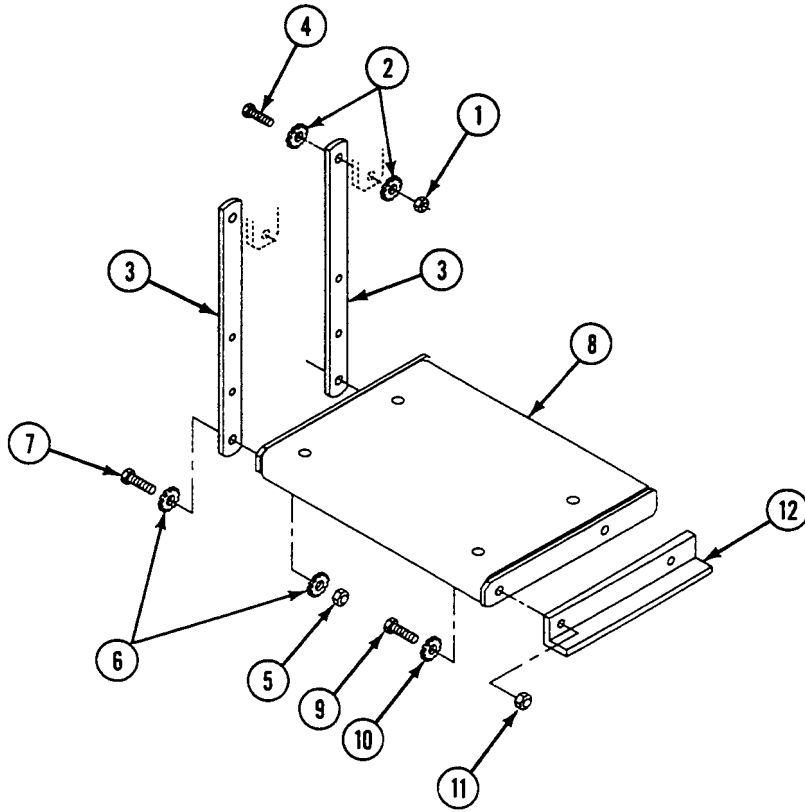
REMOVAL

1. Remove two locknuts (1), lockwashers (2), hangers (3), and screws (4) from top plate lugs. Discard locknuts and lockwashers.

REPLACE RADIO RACK (M58 ONLY) — Continued

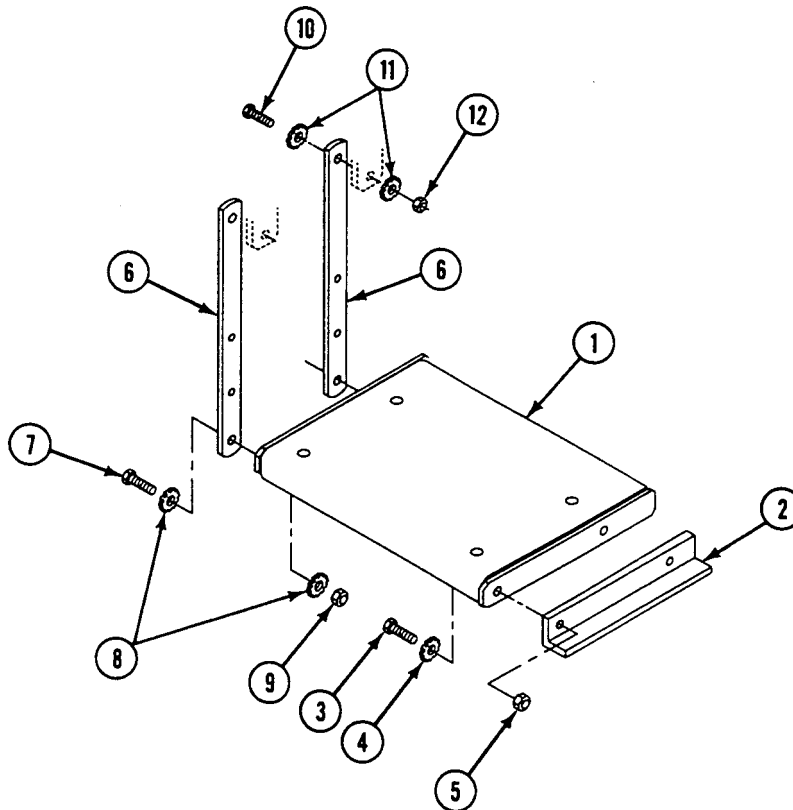
0891 00

2. Remove two locknuts (5), lockwashers (6), hangers (3), and screws (7) from radio rack (8). Discard locknuts and lockwashers.
3. Remove two screws (9), lockwashers (10), locknuts (11), and radio rack (8) from mounting bar (12) on wall of vehicle. Discard locknuts and lockwashers.



INSTALLATION

1. Install radio rack (1) on mounting bar (2). Secure radio rack with two screws (3), new lockwashers (4), and new locknuts (5).
2. Install two hangers (6) on radio rack (1). Install two screws (7), new lockwashers (8), and new locknuts (9).
3. Align hangers (6) on top plate lugs. Secure hangers with two screws (10), new lockwashers (11), and new locknuts (12).



FOLLOW-THROUGH STEPS

1. Install radio and moun TM 11-5820-498-12.
2. Start engine (see your -10).
3. Raise and lock ramp (see your -10).
4. Stop engine (see your -10).

END OF TASK

REPLACE DRIVER'S INTERCOMMUNICATION SET CABLE (M58 ONLY)

0892 00

THIS WORK PACKAGE COVERS:

Removal (page 0892 00-1).
 Installation (page 0892 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-5820-498-12

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Ramp lowered (see your -10)
 Battery ground strap disconnected (WP 0337 00)

Materials/Parts

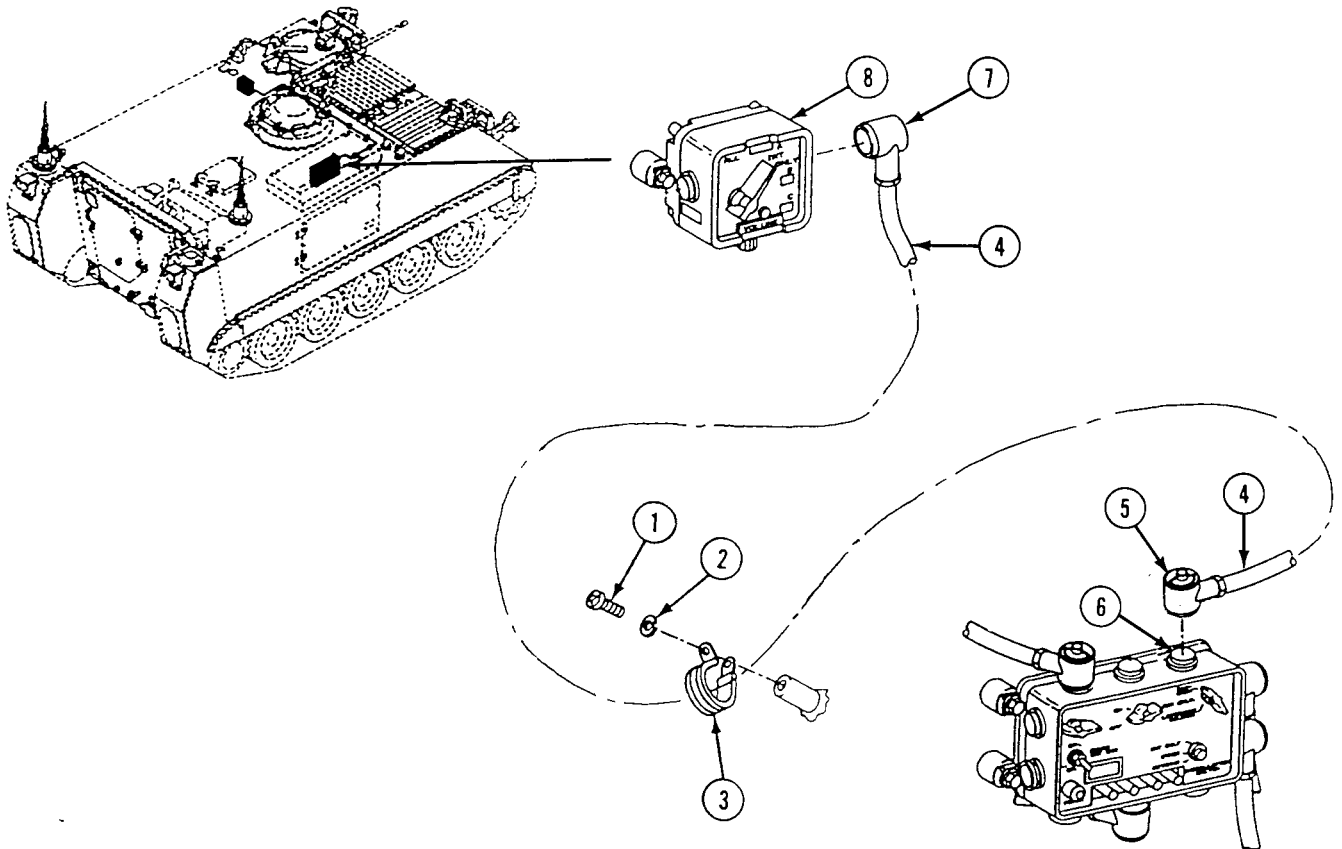
Lock washer (6)

Personnel Required

Signal Support System Specialist 31U10

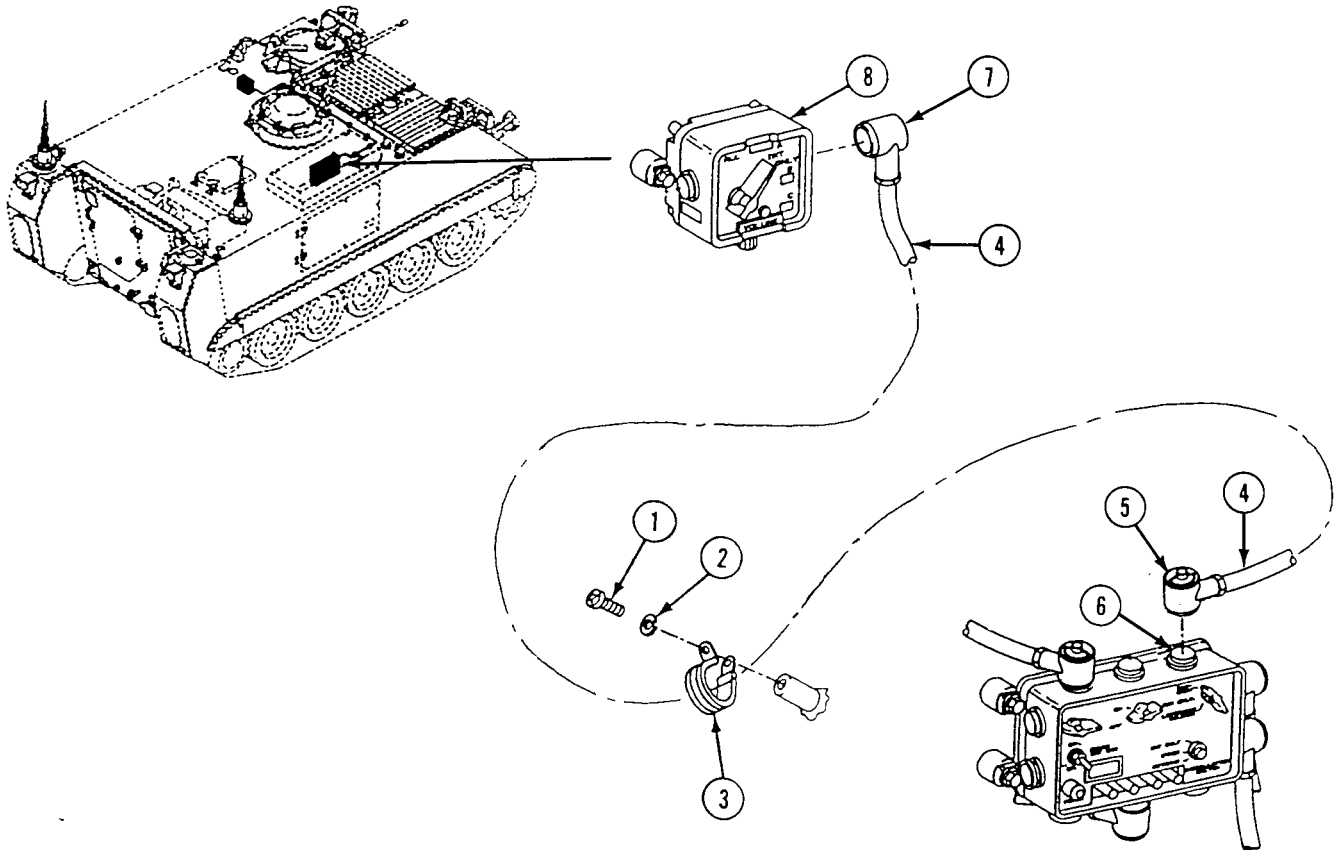
REMOVAL

1. Remove six screws (1), lockwashers (2), and clamps (3) from cable (4). Discard lockwashers.
2. Disconnect cable connector (5) from amplifier J505 (6).
3. Disconnect cable connector (7) from driver's intercom box J801 (8).



INSTALLATION

1. Connect cable connector (7) to driver's intercom box J801 (8).
2. Connect cable connector (5) to amplifier J505 (6).
3. Install six clamps (3), new lockwashers (2), and screws (1) on cable (4).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground strap (WP 0337 00).
2. Raise and lock ramp (see your -10).

END OF TASK

REPLACE COMMANDER'S INTERCOMMUNICATION SET CABLE (M58 ONLY)

0893 00

THIS WORK PACKAGE COVERS:

Removal (page 0893 00-1).
 Installation (page 0893 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-5820-498-12

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Ramp lowered (see your -10)
 Battery ground strap disconnected (WP 0337 00)

Materials/Parts

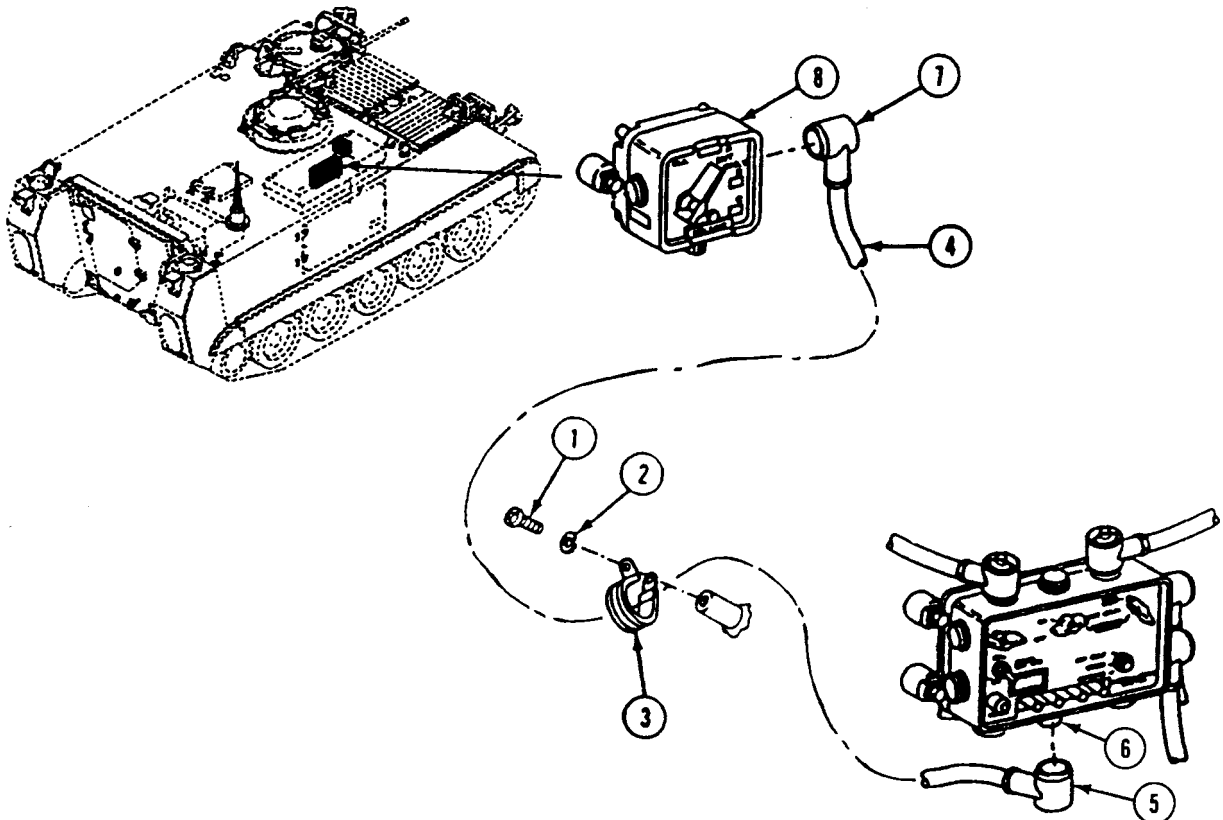
Lockwasher

Personnel Required

Signal Support System Specialist 31U10

REMOVAL

1. Remove screw (1), lockwasher (2), and clamp (3) from cable (4). Discard lockwasher.
2. Disconnect cable connector (5) from amplifier J504 (6).
3. Disconnect cable connector (7) from commander's intercom box J801 (8).

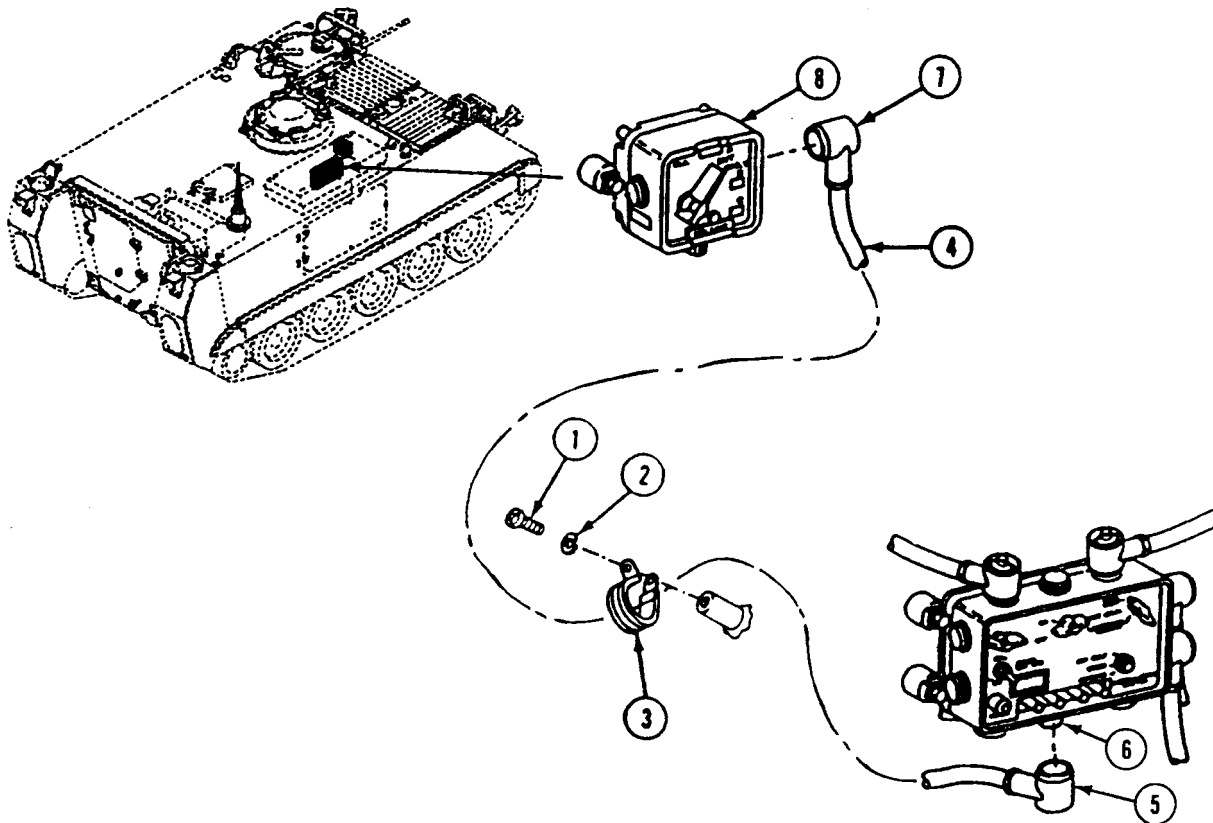


REPLACE COMMANDER'S INTERCOMMUNICATION SET CABLE (M58 ONLY) —
Continued

0893 00

INSTALLATION

1. Connect cable connector (7) to commander's intercom box J801 (8).
2. Connect cable connector (5) to amplifier J504 (6).
3. Install clamp (3), new lockwasher (2), and screw (1) on cable (4).

**FOLLOW-THROUGH STEPS**

1. Connect battery ground strap (WP 0337 00).
2. Raise and lock ramp (see your -10).

END OF TASK

REPLACE OPERATOR'S INTERCOMMUNICATION SET CABLE (M58 ONLY)

0894 00

THIS WORK PACKAGE COVERS:

Removal (page 0894 00-1).
 Installation (page 0894 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-5820-498-12

Tools and Special Tools

Radio Equipment Tool Kit WP 0926 00, Item 66

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Ramp lowered (see your -10)
 Battery ground strap disconnected (WP 0337 00)
 Floor plates removed (WP 0545 00)

Materials/Parts

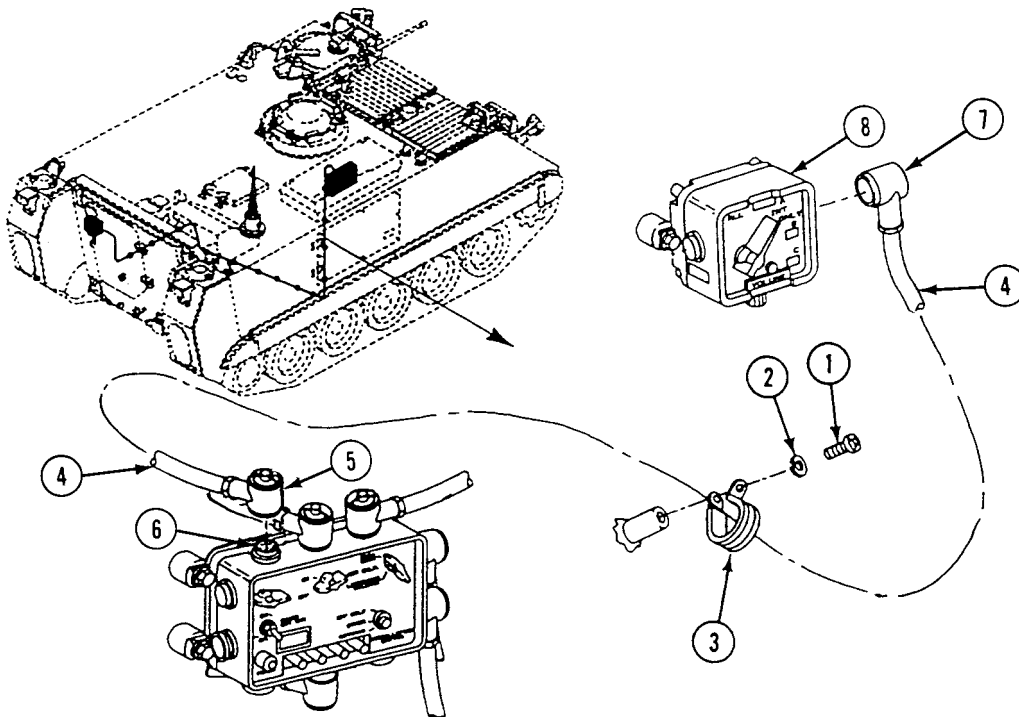
Lockwasher (9)

Personnel Required

Signal Support System Specialist 31U10

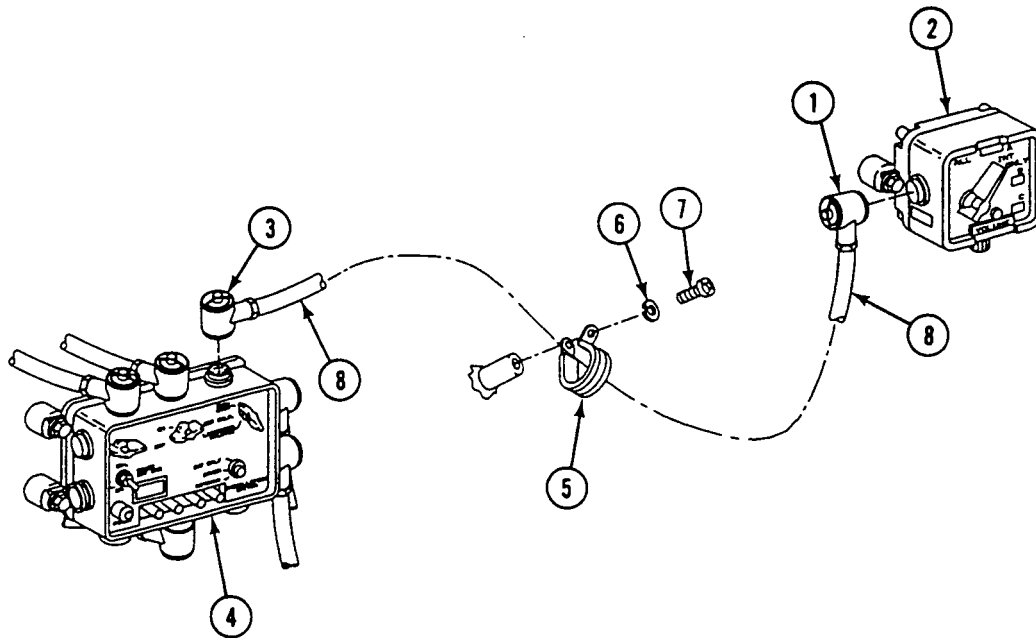
REMOVAL

1. Remove nine screws (1), lockwashers (2), and clamps (3) from cable (4). Discard lockwashers.
2. Disconnect cable connector (5) from amplifier J507 (6).
3. Disconnect cable connector (7) from operator's intercom box J801 (8).



INSTALLATION

1. Connect cable connector (1) to operator's intercom box J801 (2).
2. Connect cable connector (3) to amplifier J507 (4).
3. Install nine clamps (5), new lockwashers (6), and screws (7) on cable (8).

**FOLLOW-THROUGH STEPS**

1. Install floor plates (WP 0545 00).
2. Connect battery ground strap (WP 0337 00).
3. Raise and lock ramp (see your -10).

END OF TASK

CHAPTER 29

UNIT MAINTENANCE INSTRUCTIONS
FOR FIRE FIGHTING EQUIPMENT

WORK PACKAGE INDEX

<u>Title</u>	<u>Sequence No.</u>
REPLACE PORTABLE FIRE EXTINGUISHER MOUNT (ALL EXCEPT M1068A3).....	.0895 00
REPLACE FIRE EXTINGUISHER AND MOUNT (M1059A3 ONLY).....	.0896 00
REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068A3 ONLY).....	.0897 00
REPLACE FIXED FIRE EXTINGUISHER CYLINDER AND MOUNT.....	.0898 00
REPLACE CYLINDER DISCHARGE TUBES.....	.0899 00
REPLACE TURBINE CYLINDER DISCHARGE TUBES (M58 ONLY).....	.0900 00
REPLACE EXTERNAL HANDLE SHIELD (M113A3 AND M1059A3 ONLY).....	.0901 00
REPLACE EXTERNAL HANDLE SHIELD (M577A3 AND M1068A3 ONLY).....	.0902 00
REPLACE EXTERNAL HANDLE SHIELD (M1064A3 ONLY).....	.0903 00
REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE.....	.0904 00
REPLACE EXTERNAL CABLE TUBE.....	.0905 00

REPLACE PORTABLE FIRE EXTINGUISHER MOUNT (ALL EXCEPT M1068A3)

0895 00

THIS WORK PACKAGE COVERS:

Removal (page 0895 00-1).
 Installation (page 0895 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

References

See your -10

Materials/Parts

Cotter pin (4)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)

REMOVAL

WARNING

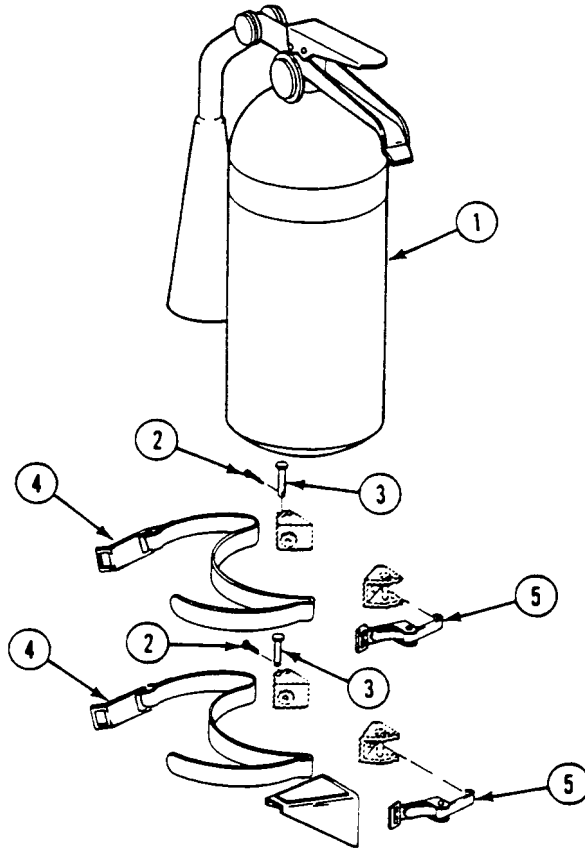


You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Discharge cylinder completely before removing from its mount. Handle with great care.

REPLACE PORTABLE FIRE EXTINGUISHER MOUNT (ALL EXCEPT M1068A3) —
Continued

0895 00

1. Remove fire extinguisher (1).
2. Remove four cotter pins (2), pins (3) and two straps (4). Discard cotter pins.
3. Remove two clamps (5) from two straps (4).

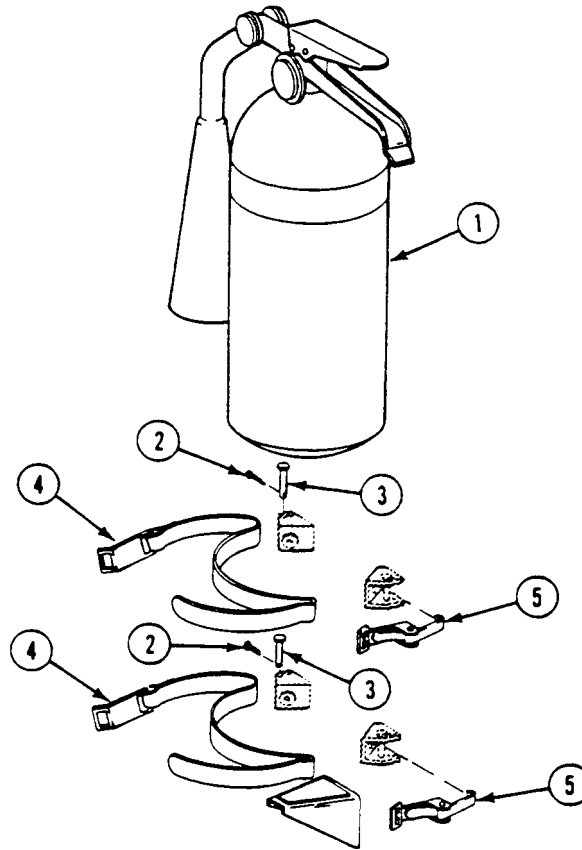


REPLACE PORTABLE FIRE EXTINGUISHER MOUNT (ALL EXCEPT M1068A3) —
Continued

0895 00

INSTALLATION

1. Install two clamps (5) on two straps (4).
2. Install four pins (3), new cotter pins (2) and two straps (4).
3. Install fire extinguisher (1).

**END OF TASK**

REPLACE FIRE EXTINGUISHER AND MOUNT (M1059A3 ONLY)

0896 00

THIS WORK PACKAGE COVERS:

- Removal (page 0896 00-1).
- Inspection and Repair (page 0896 00-3).
- Installation (page 0896 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

References

See your -10

Materials/Parts

Locknut

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

REMOVAL

WARNING

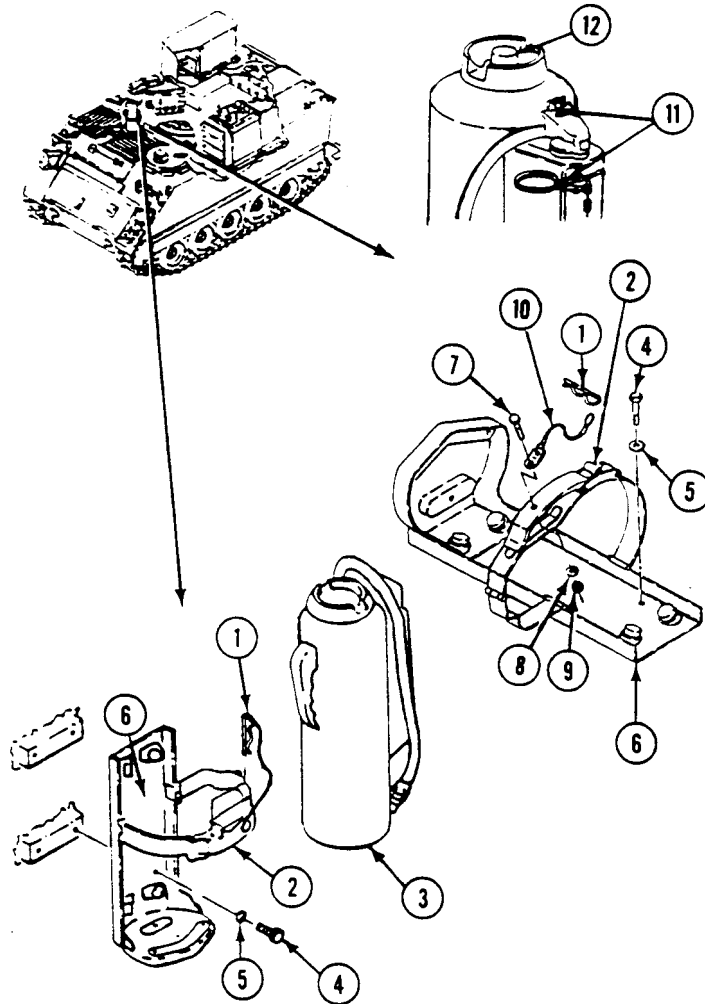


You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Discharge cylinder completely before removing from its mount. Handle with great care.

NOTE

The M1059A3 has two special fire extinguishers – one inside and one outside. Both are replaced the same way.

1. Remove pin (1) from strap (2).
2. Loosen retaining strap (2) and remove fire extinguisher (3).
3. Remove four screws (4) and four washers (5) securing mount (6) to hull.
4. Remove screw (7), washer (8), locknut (9), and lanyard (10) with pin (1) from strap (2). Discard locknut.

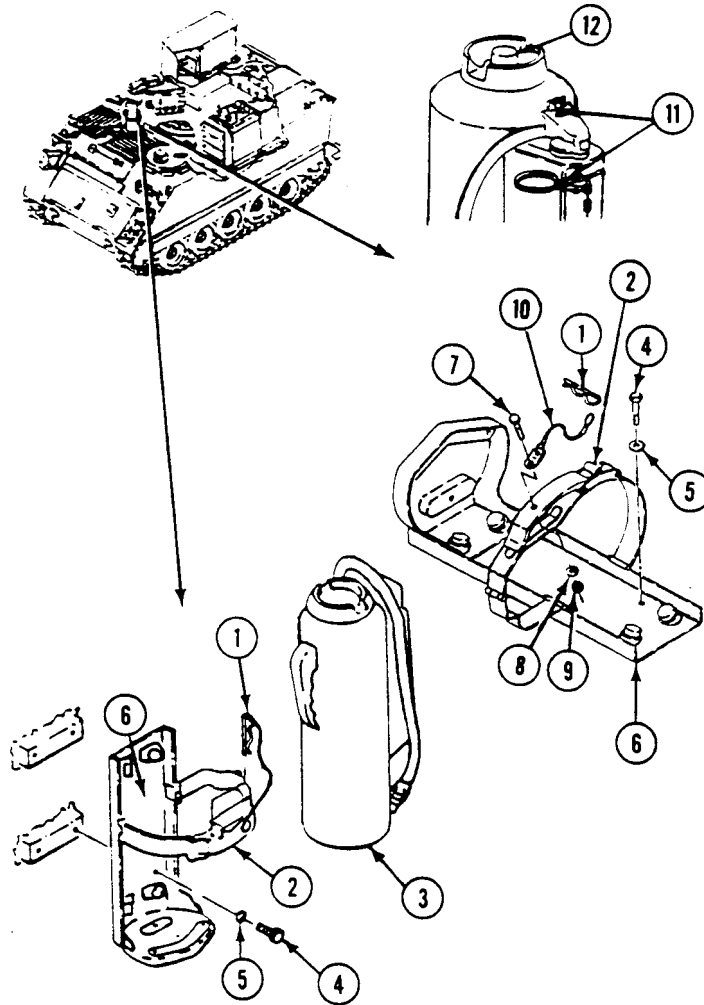


INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

1. Inspect fire extinguisher trigger seal (11) and cap indicator (12). If cap indicator is extended or seal wire is broken, notify supervisor.

INSTALLATION

1. Install lanyard (10) with pin (1) attached on strap (2) with screw (7), washer (8), and new locknut (9).
2. Install mount (6) on hull. Secure with four screws (4) and washers (5).
3. Place fire extinguisher in mount (6). Secure with strap (2).
4. Install pin (1) in strap (2).



END OF TASK

REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068A3 ONLY)

0897 00

THIS WORK PACKAGE COVERS:

- Removal (page 0897 00-1).
- Disassembly (page 0897 00-3).
- Assembly (page 0897 00-4).
- Installation (page 0897 00-5).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Drill Set (WP 0926 00, Item NSN-5133-00-293-0983)
- Portable Electric Drill (WP 0926 00, Item 20)

References

See your -10

Materials/Parts

- Cotter pin
- Lockwasher (4)
- Lockwasher (2)
- Rivet (12 (as needed))
- Rivet (2)

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)

REMOVAL

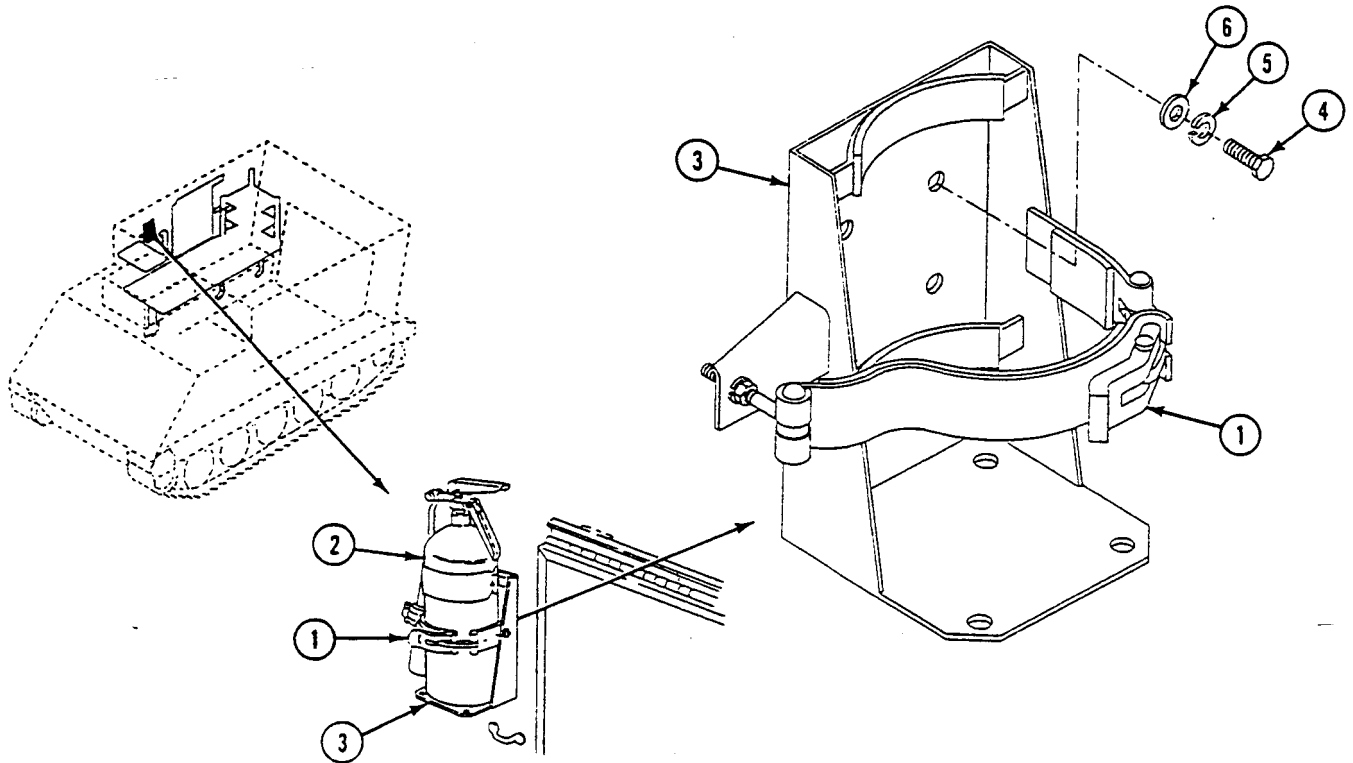
WARNING



You could be injured if fire extinguisher accidentally discharges when it is out of its mounting bracket or is dropped. Make sure safety pin is properly installed in fire extinguisher before removing extinguisher from mounting bracket. Handle with care.

**REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068A3 ONLY) —
Continued****0897 00**

1. Release latch (1) and remove fire extinguisher (2) from bracket (3).
2. Remove four screws (4), lockwashers (5), washers (6), and bracket (3) from hull. Discard lockwashers.

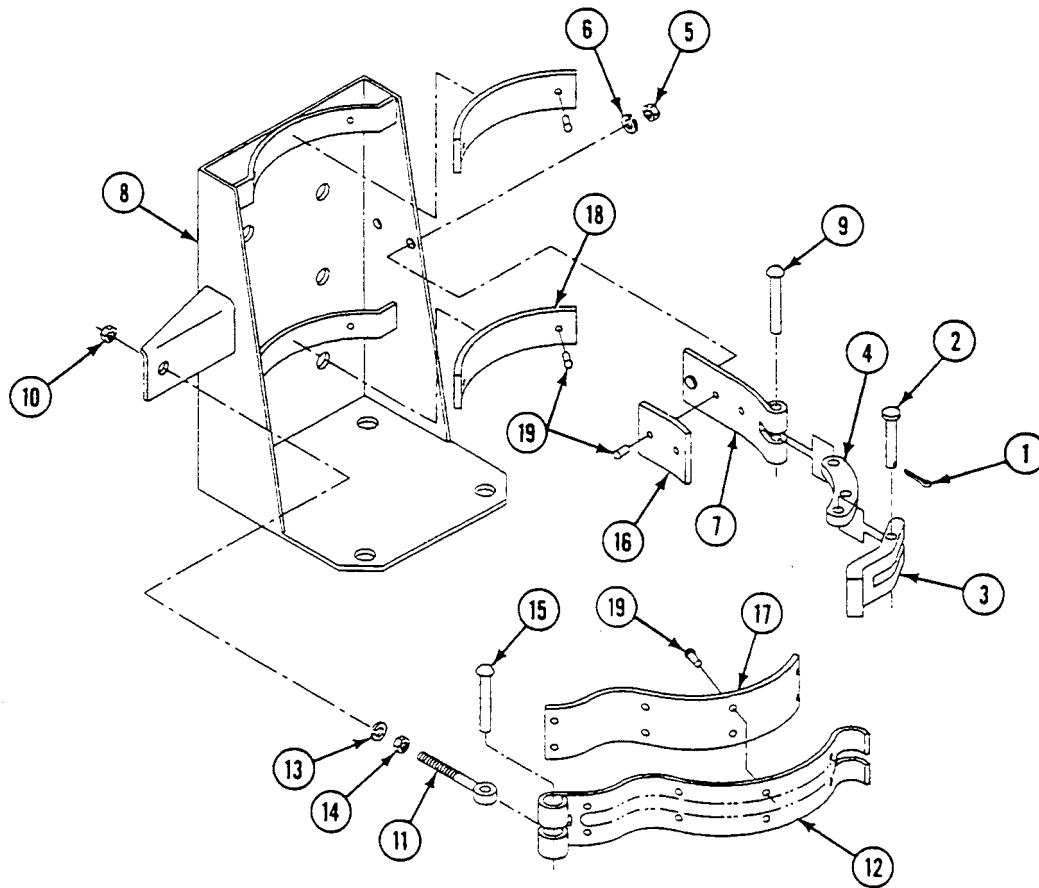


REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068A3 ONLY) —
Continued

0897 00

DISASSEMBLY

1. Remove cotter pin (1), headed pin (2), and latch (3) from link (4). Discard cotter pin.
2. Remove nut (5), lockwasher (6), and fixed arm assembly (7) with link (4) from bracket (8). Discard lockwasher.
3. Remove rivet (9) and link (4) from fixed arm assembly (7). Discard rivet.
4. Remove nut (10) and rod end connector (11) with movable arm assembly (12) from bracket (8). Then remove lockwasher (13) and nut (14) from connector. Discard lockwasher.
5. Remove rivet (15) and rod end connector (11) from movable arm assembly (12). Discard rivet.
6. If lining (16)(17)(18) on arm assembly (7)(12) or bracket (8) needs to be replaced, drill out rivets (19) and remove lining. Discard rivets.

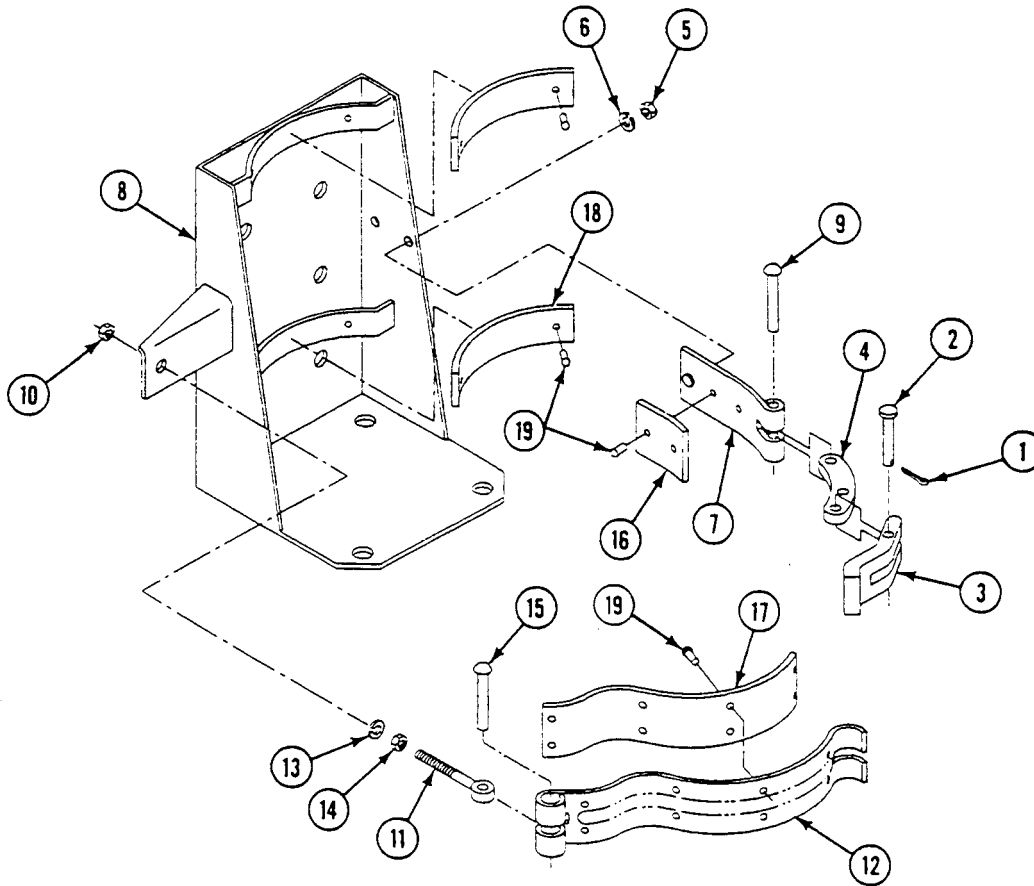


**REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068A3 ONLY) —
Continued**

0897 00

ASSEMBLY

1. If lining (16)(17)(18) was removed from arm assembly (7)(12) or bracket (8), install new lining and secure with new rivets (19).
2. Install rod end connector (11) on movable arm assembly (12) and secure with new rivet (15).
3. Install nut (14) and new lockwasher (13) on rod end connector (11). Insert connector into bracket (8) and secure with nut (10).
4. Install link (4) on fixed arm assembly (7) and secure with new rivet (9).
5. Install fixed arm assembly (7) on bracket (8) and secure with nut (5) and new lockwasher (6).
6. Install latch (3) on link (4) and secure with headed pin (2) and new cotter pin (1).

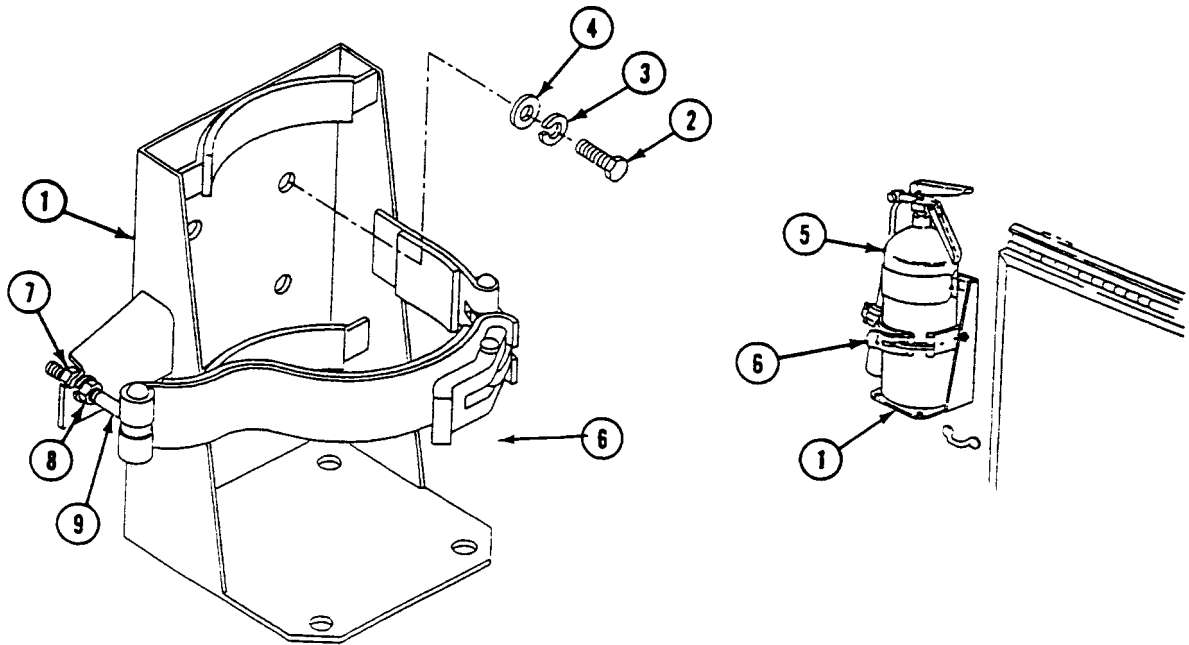


REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068A3 ONLY) —
Continued

0897 00

INSTALLATION

1. Install bracket (1) on hull wall next to map board. Secure with four screws (2), new lockwashers (3), and washers (4).
2. Install fire extinguisher (5) in bracket (1) and close latch (6). If needed, adjust nuts (7)(8) on rod end connector (9) to clamp fire extinguisher securely.



END OF TASK

REPLACE FIXED FIRE EXTINGUISHER CYLINDER AND MOUNT

0898 00

THIS WORK PACKAGE COVERS:

Removal (page 0898 00-2).
 Installation (page 0898 00-4).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
 Socket wrench set (WP 0926 00, Item 70)
 Torque wrench (WP 0926 00, Item 78)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Control valve removed (WP 0904 00)
 Discharge tube removed from cylinder (WP 0899 00)

Materials/Parts

Cotter pin (4)

Personnel Required

Unit Mechanic

REMOVAL

WARNING

You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Discharge cylinder completely before removing from its mount. Handle with great care.

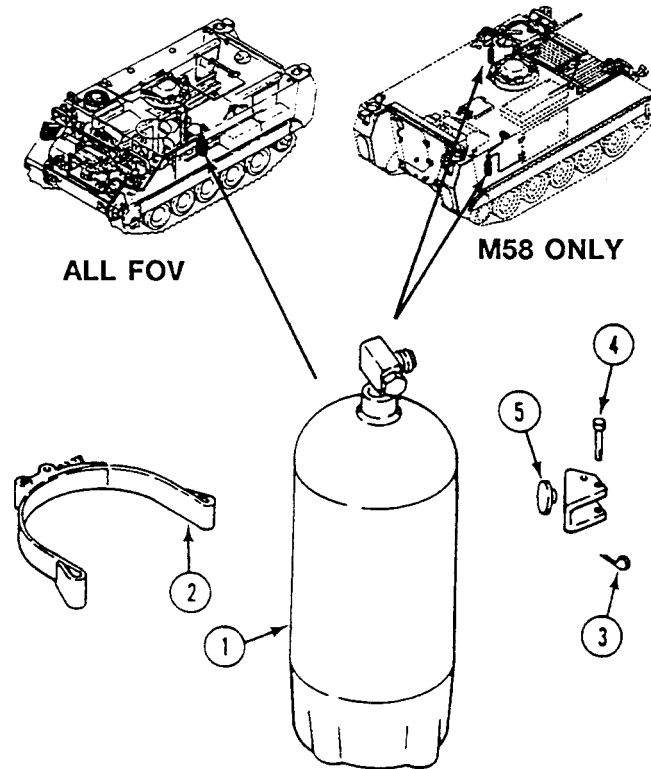
CAUTION

Inspect cylinder/bottle data to ensure the latest hydrostatic test was performed within the past five years. Any bottle/cylinder beyond the time limit shall be declared unserviceable and replaced.

NOTE

M58 vehicle has two fixed fire extinguishers.

1. Support cylinder (1) and loosen two clamps (2). Remove cylinder from four hull brackets.
2. Remove four cotter pins (3), pins (4), and two clamps (2) from hull brackets. Discard cotter pins.
3. If needed, remove four bumpers (5) from hull brackets.



INSTALLATION**NOTE**

The carbon dioxide (CO₂) cylinder has a 5-pound (2 kg) capacity with a maximum weight of 18 pounds (8 kg). Weigh cylinder before installation. If weight loss is more than 10 percent (2 pounds) (1 kg), replace cylinder with a fully charged one.

1. If removed, install four bumpers (5) in hull brackets.
2. Place two clamps (2) on hull brackets. Secure with four pins (4) and new cotter pins (3).
3. Hold cylinder (1) on hull brackets. Secure with two clamps (2). TIGHTEN CLAMPS TO 51-59 LB-IN (5-6 N·m) TORQUE.

FOLLOW-THROUGH STEPS

1. Install discharge tube on cylinder (WP 0899 00).
2. Install control valve (WP 0904 00).

END OF TASK

REPLACE CYLINDER DISCHARGE TUBES

0899 00

THIS WORK PACKAGE COVERS:

Removal (page 0899 00-1).
 Installation (page 0899 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-277-10)
 Carrier blocked (TM 9-2350-277-10)
 Power plant access door open (TM 9-2350-277-10)
 Power plant removed (WP 0156 00), if bottom discharge
 tube is to be removed
 Left front spall liner opened (M113A3)
 (TM 9-2350-277-10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Materials/Parts

Lockwasher (6)

Personnel Required

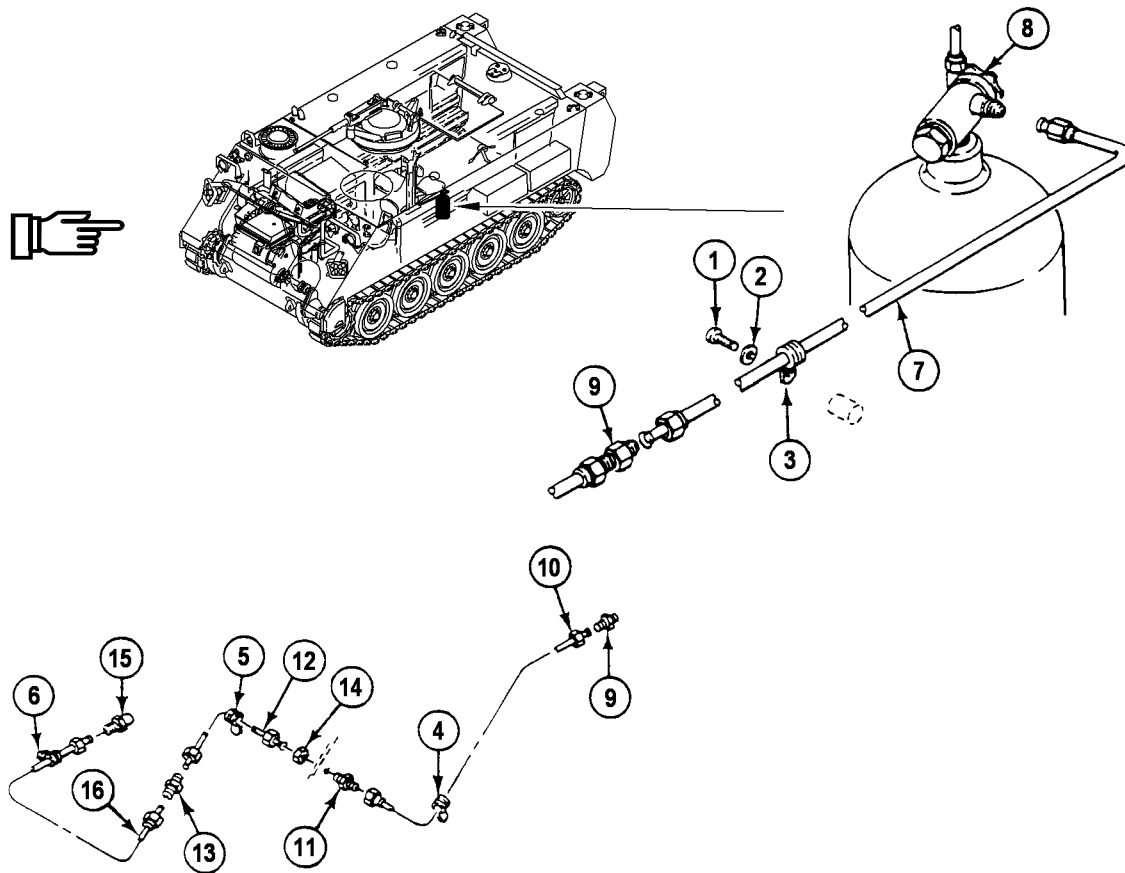
Unit Mechanic

REMOVAL

REPLACE CYLINDER DISCHARGE TUBES — Continued

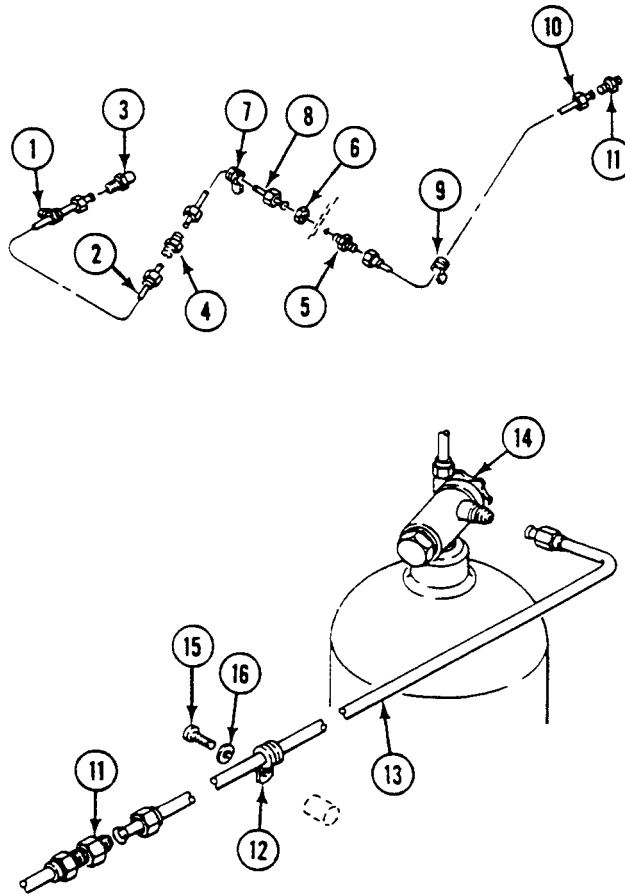
0899 00

1. Remove six screws (1), lockwashers (2), and clamps (3), (4), (5), and (6) from six hull weldnuts. Discard lockwashers.
2. Remove tube (7) from fire extinguisher cylinder (8) and union (9). Remove clamp (3) from tube.
3. Remove tube (10) from union (11). Remove union (9) and clamp (4) from tube.
4. Remove tube (12) from union (11) and union (13). Remove clamp (5) from tube.
5. Remove nut (14) and union (11) from driver's bulkhead.
6. Remove union (13), nozzle (15), and three clamps (6) from tube (16).



INSTALLATION

1. Place three clamps (1) on tube (2). Install nozzle (3) and union (4) on tube.
2. Install union (5) in driver's bulkhead. Secure with nut (6).
3. Place clamp (7) on tube (8). Install tube on two unions (4) and (5).
4. Place clamp (9) on tube (10). Install union (11) on tube, and install tube on union (5).
5. Place clamp (12) on tube (13). Install tube on union (11) and fire extinguisher cylinder (14).
6. Align six clamps (1), (7), (9), and (12) with six hull weldnuts. Secure clamps to weld-nuts with six screws (15) and new lockwashers (16).



FOLLOW-THROUGH STEPS

1. If removed, install power plant (WP 0156 00).
2. Close power plant access door. See TM 9-2350-277-10.

END OF TASK

REPLACE TURBINE CYLINDER DISCHARGE TUBES (M58 ONLY)

0900 00

THIS WORK PACKAGE COVERS:

Removal (page 0900 00-1).
 Installation (page 0900 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Materials/Parts

Lockwasher (2)

Engine stopped (see your -10)

Personnel Required

Unit Mechanic

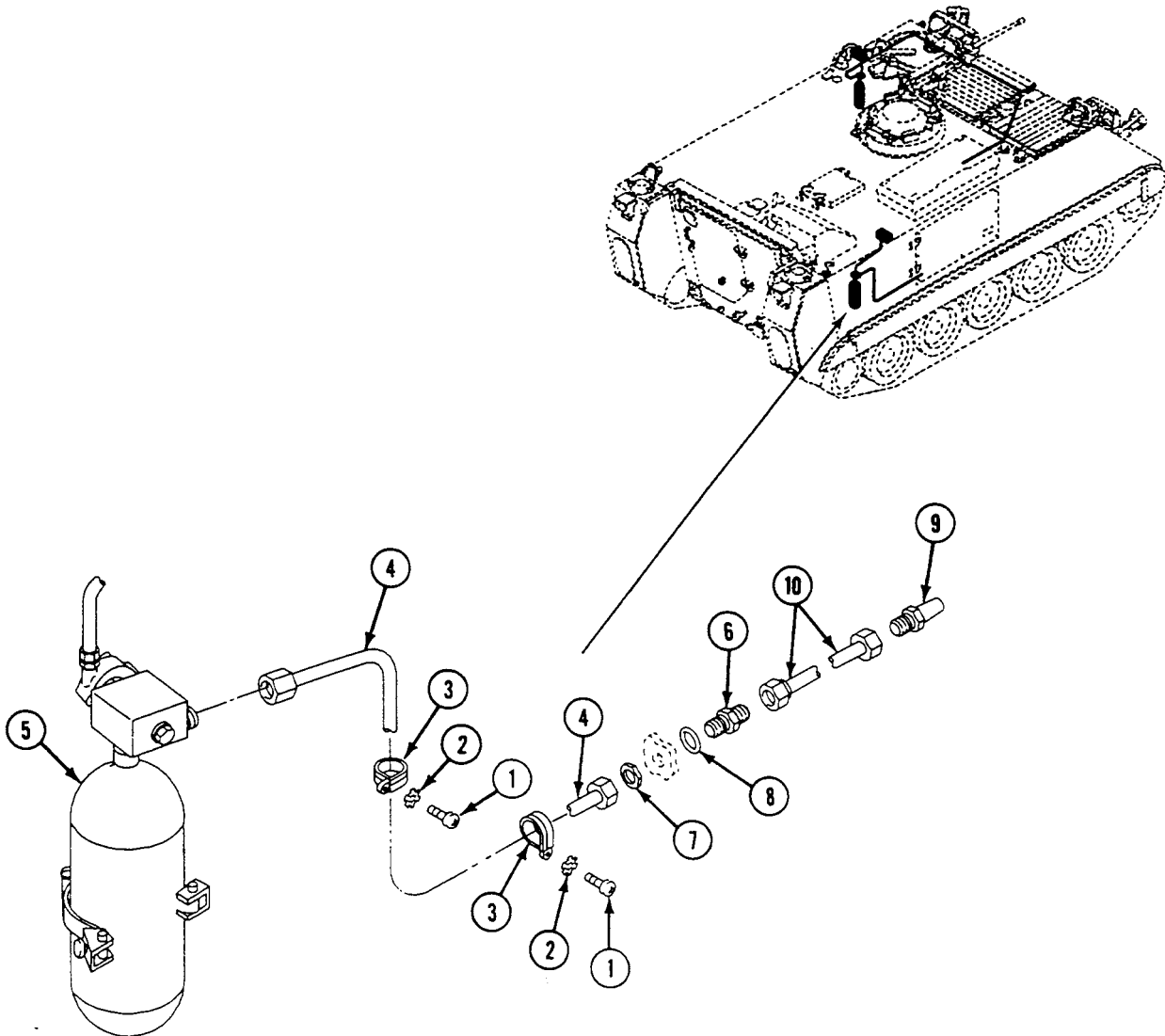
Carrier blocked (see your -10)

Ramp door open (see your -10)

REMOVAL

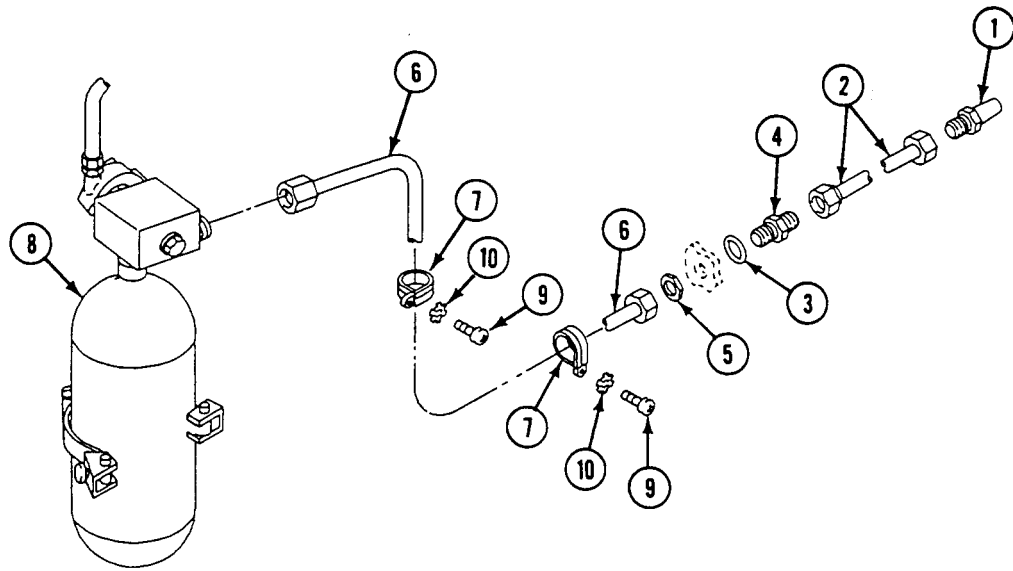
1. Remove two screws (1), lockwashers (2), and clamps (3) from two hull weldnuts. Discard lockwashers.

2. Remove tube (4) from fire extinguisher cylinder (5). Remove clamp (3) from tube.
3. Remove tubes (4) and (10) from nipple (6). Remove clamp (3) from tube (4).
4. Remove nipple (6), nut (7), and o-ring (8) from turbine enclosure.
5. Remove nozzle (9) from tube (10).



INSTALLATION

1. Install nozzle (1) on tube (2).
2. Install o-ring (3) and nipple (4) in turbine enclosure. Secure with nut (5).
3. Install tube (2) on nipple (4) in turbine enclosure.
4. Place clamp (7) on tube (6). Install tube on nipple (4).
5. Place clamp (7) on tube (6). Install tube on fire extinguisher cylinder (8).
6. Align two clamps (7) with two hull weldnuts. Secure clamps to weldnuts with two screws (9) and new lockwashers (10).



FOLLOW-THROUGH STEPS

1. Close ramp door (see your -10).

END OF TASK

REPLACE EXTERNAL HANDLE SHIELD (M113A3 AND M1059A3 ONLY)

0901 00

THIS WORK PACKAGE COVERS:

Removal (page 0901 00-1).
 Installation (page 0901 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

References

See your -10

Materials/Parts

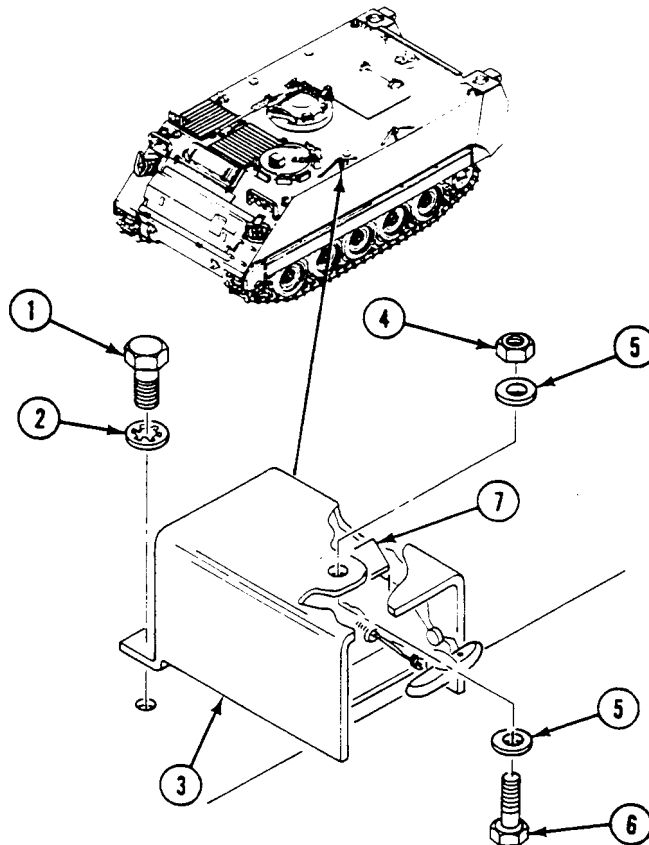
Locknut
 Lockwasher (2)
 Shield

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)

REMOVAL

1. Remove two screws (1) and lockwashers (2) from shield (3) and hull top plate. Discard lockwashers.
2. Remove locknut (4), two washers (5), screw (6), and shield (3) from support bracket (7). Discard locknut and shield.

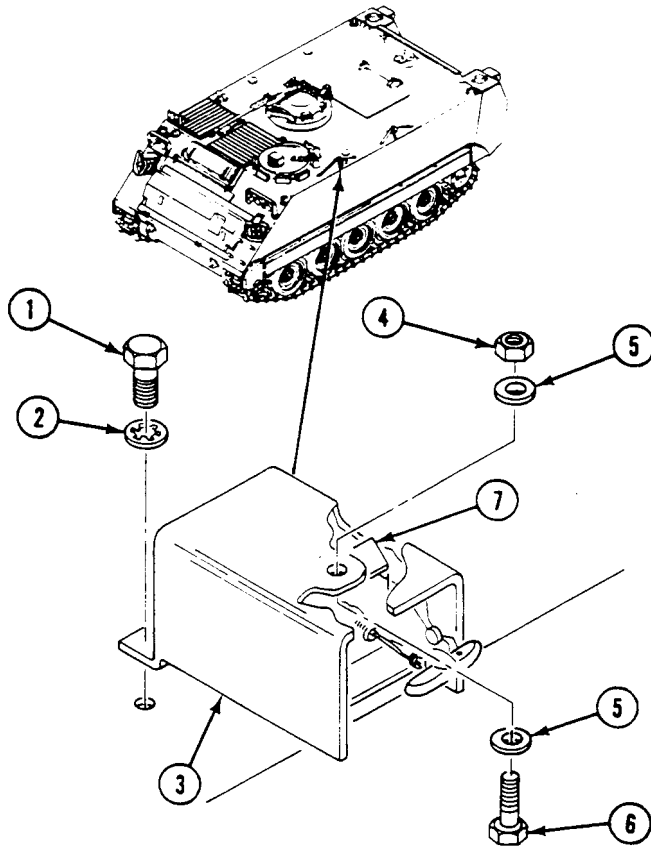


REPLACE EXTERNAL HANDLE SHIELD (M113A3 AND M1059A3 ONLY) — Continued

0901 00

INSTALLATION

1. Place new shield (3) on support bracket (7). Secure with screw (6), two washers (5), and new locknut (4).
2. Secure shield (3) to hull top plate with two new lockwashers (2) and screws (1).

**END OF TASK**

REPLACE EXTERNAL HANDLE SHIELD (M577A3 AND M1068A3 ONLY)

0902 00

THIS WORK PACKAGE COVERS:

- Removal (page 0902 00-1).
- Installation (page 0902 00-1).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Materials/Parts

Lockwasher (4)

Personnel Required

Unit Mechanic

Equipment Condition

Engine stopped (see your -10)

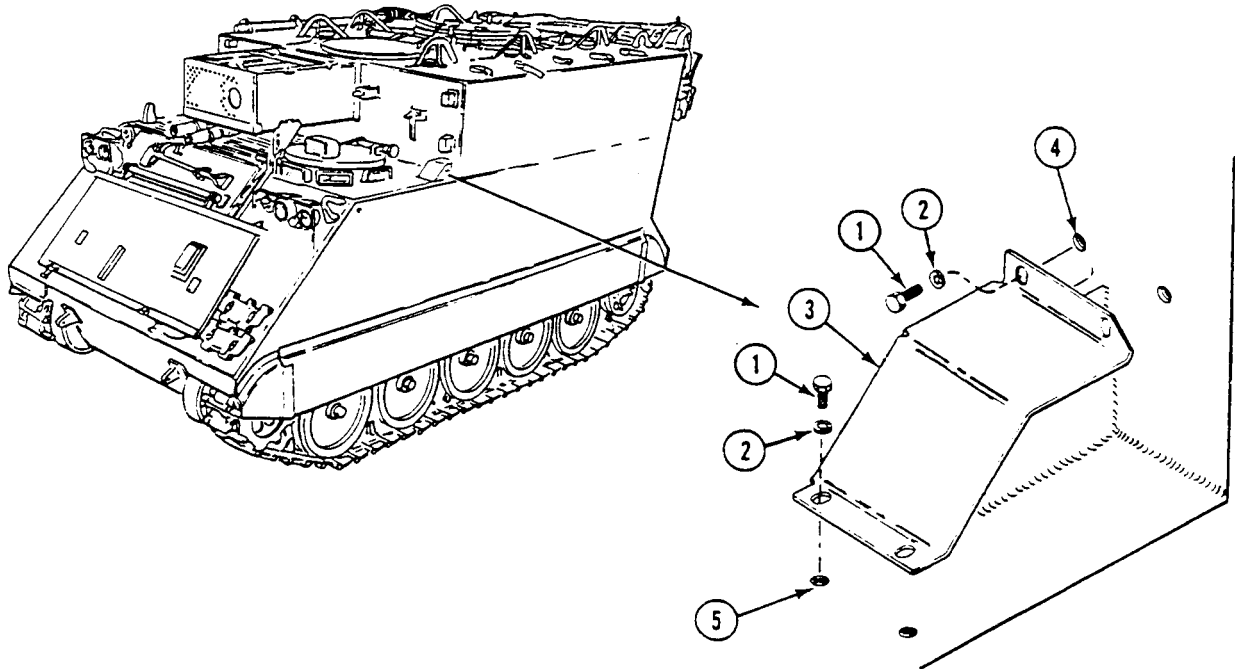
Carrier blocked (see your -10)

REMOVAL

1. Remove four screws (1) and lockwashers (2) and shield (3) from upper front bulkhead (4) and hull top plate (5). Discard lockwashers.

INSTALLATION

1. Place shield (3) on hull top plate (5) and upper front bulkhead (4). Secure with four new lockwashers (2) and screws (1).



END OF TASK

REPLACE EXTERNAL HANDLE SHIELD (M1064A3 ONLY)

0903 00

THIS WORK PACKAGE COVERS:

- Removal (page 0903 00-1).
- Inspection and Repair (page 0903 00-3).
- Installation (page 0903 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

References

See your -10

Materials/Parts

Locknut
Lockwasher (2)

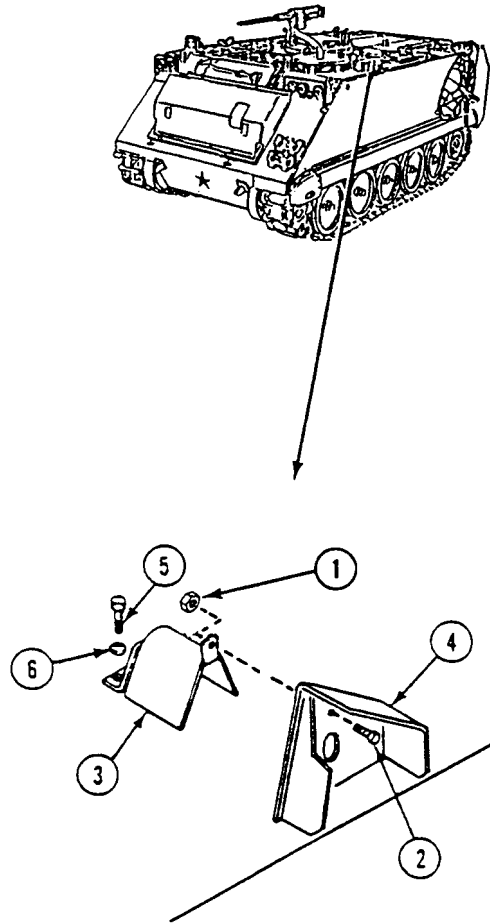
Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

REMOVAL

1. Remove locknut (1) and screw (2) from shield (3) and support bracket (4). Discard locknut.

2. Remove two screws (5), lockwashers (6), and shield (3) from hull top plate. Discard lockwashers.

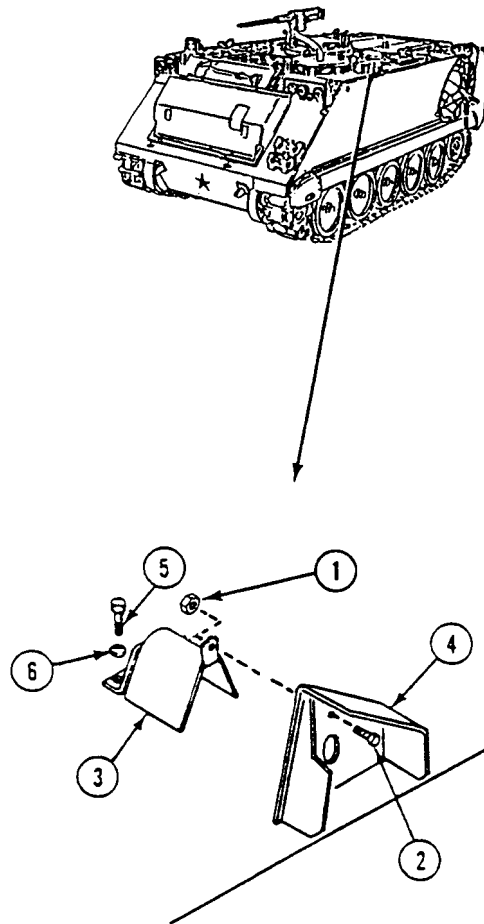


INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

1. Check shield. Replace cracked shield.
2. Check threaded parts. Remove burs. Replace parts that have stripped threads.

INSTALLATION

1. Place shield (3) on top hull plate. Secure with two new lockwashers (6) and screws (5).
2. Secure shield (3) to support bracket (4) with screw (2) and new locknut (1).

**END OF TASK**

REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE

0904 00

THIS WORK PACKAGE COVERS:

Removal (page 0904 00-1).
 Installation (page 0904 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
 Lead Seal Hand Press (WP 0926 00, Item 34)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 External handle shield removed (WP 0901 00),
 (WP 0902 00), or (WP 0903 00)

Materials/Parts

Seal wire

Personnel Required

Unit Mechanic

REMOVAL

1. Loosen captive nut (1) on control valve (2). Remove valve from fire extinguisher cylinder (3).

NOTE

There are two types of control valves. Remove and install both valves same way.

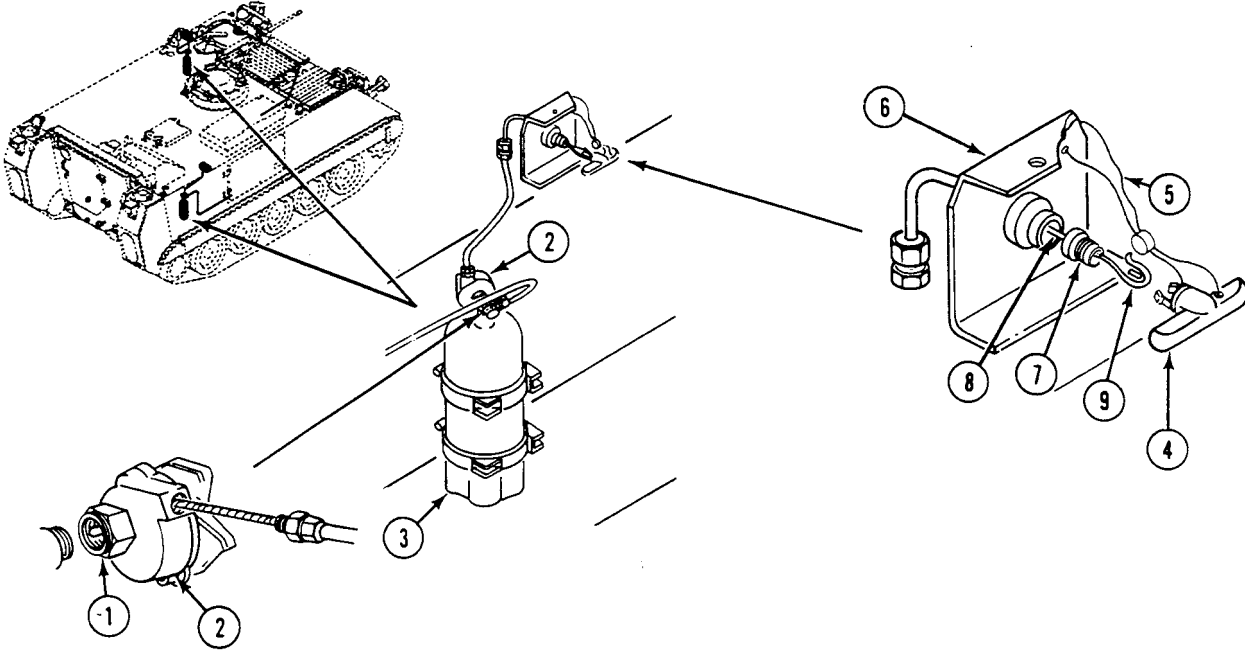
M58 vehicle has two fixed fire extinguishers.

2. Pull external handle (4) to break seal wire (5). Remove wire from handle and support bracket (6). Discard wire.
3. Remove insert (7) from handle (4).

REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE —
Continued

0904 00

4. Slide insert (7) down cable (8) until wedge (9) can be seen. Remove wedge and cable from insert.



5. Remove adapter (1) from control valve (2).
6. Gently pull control valve (2) until cable (3) is free from cable tube (4). Remove valve from carrier.
7. Remove broken seal wire (5) from control valve (2).

REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE —
Continued

0904 00

INSTALLATION

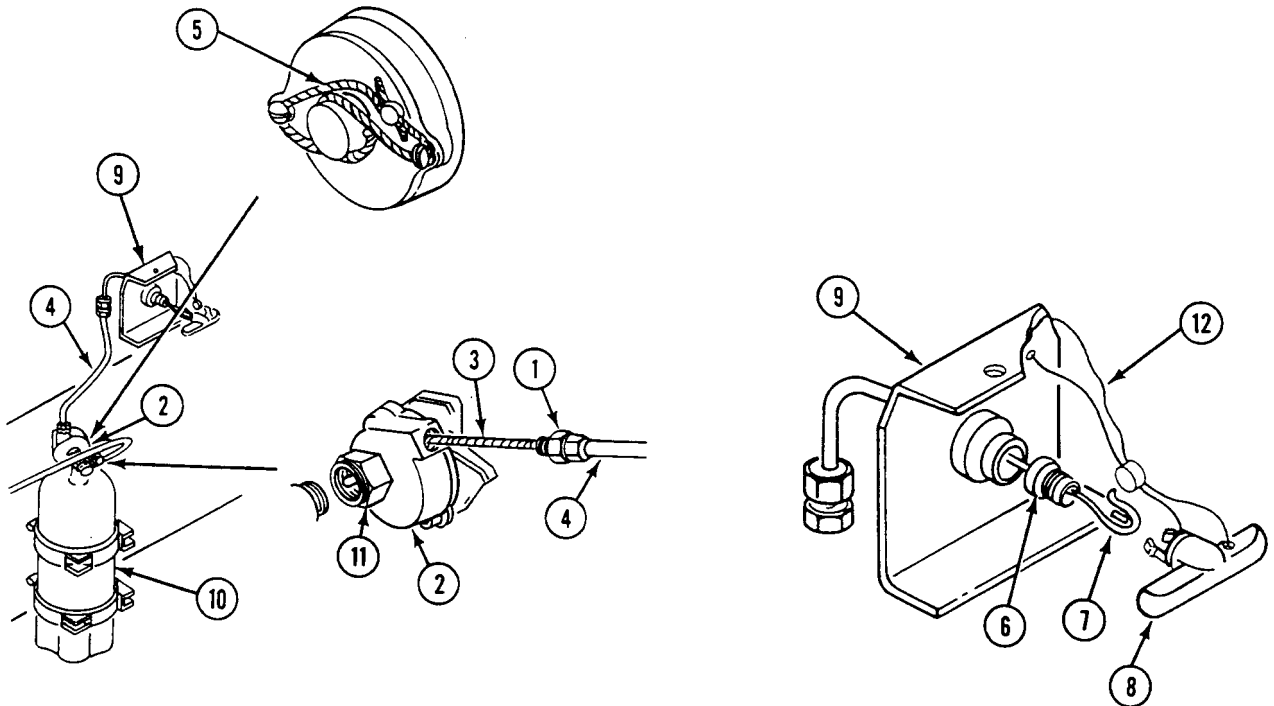
1. Slide adapter (1) over cable (3). Install adapter in control valve (2).
2. Route cable (3) through cable tube (4) and insert (6).
3. Bend cable (3) over wedge (7). Slide insert (6) over cable and wedge.
4. Install insert (6) in handle (8).
5. Pull control valve (2) until handle (8) is in place on support bracket (9).
6. Install valve (2) on fire extinguisher cylinder (10). Secure with captive nut (11).

CAUTION

Fire extinguisher control valve sealed with wire will not work. Make sure seal wire is made out of light copper.

Do not nick wire seal during installation.

7. Install new copper seal wire (5) on control valve (2). Use lead seal hand press.
8. Install new seal wire (12) between handle (8) and support bracket (9). Use lead seal hand press.

**FOLLOW-THROUGH STEPS**

1. Install external handle shield (WP 0901 00), (WP 0902 00), or (WP 0903 00).

END OF TASK

REPLACE EXTERNAL CABLE TUBE

0905 00

THIS WORK PACKAGE COVERS:

Removal (page 0905 00-2).
 Installation (page 0905 00-5).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Materials/Parts

Adapter

Nut

Sleeve

Sleeve

Engine stopped (see your -10)

Carrier blocked (see your -10)

External handle shield removed (WP 0901 00),
 (WP 0902 00), or (WP 0903 00)

Personnel Required

Unit Mechanic

External handle and insert removed (WP 0904 00)

REMOVAL

NOTE

M58 vehicle has two fixed fire extinguishers.

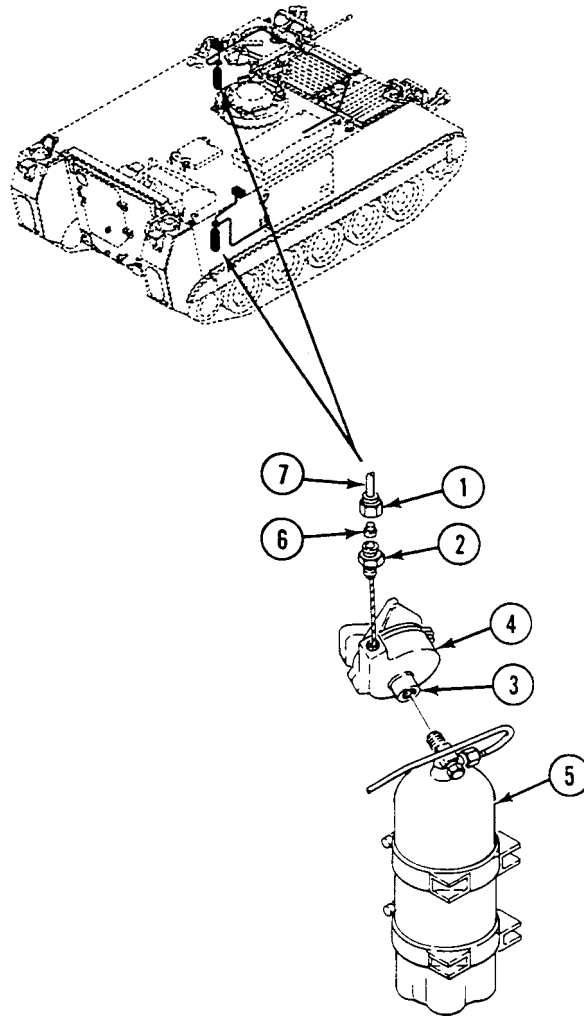
For M113A3, slide spill liner to access engine compartment fire extinguisher.

1. Loosen nut (1) on control valve adapter (2).

WARNING

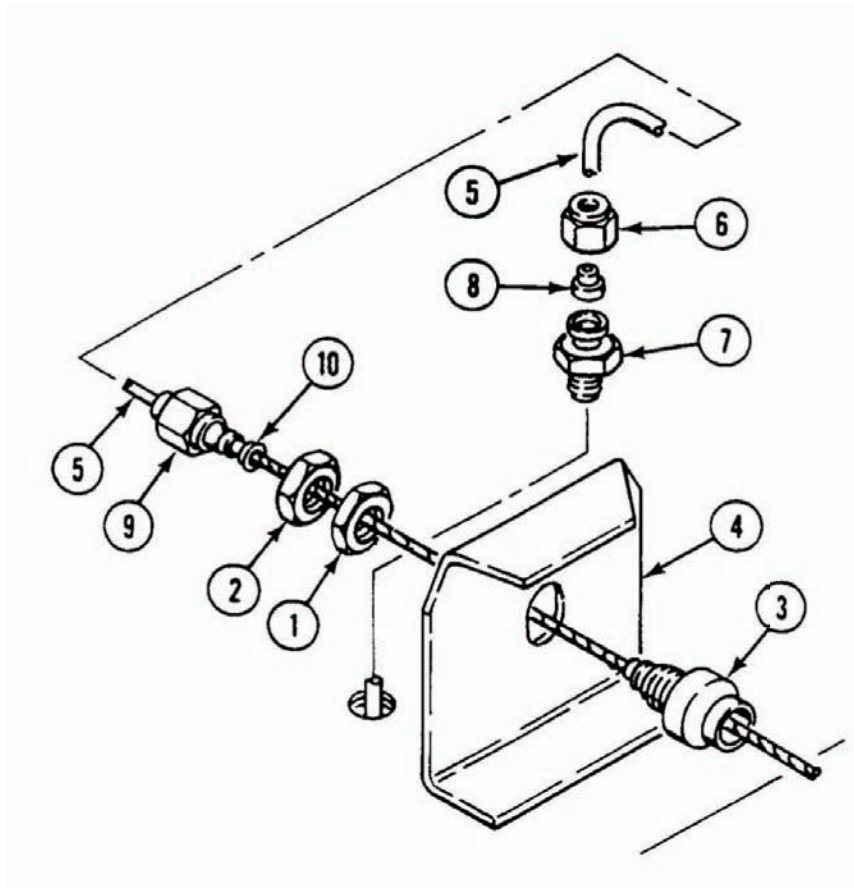
**You could be injured by discharging cylinder if dropped or mounting bracket is not in place.
Discharge cylinder completely before removing from mount.**

2. Loosen captive nut (3) on control valve (4). Remove valve from fire extinguisher cylinder (5).
3. Remove adapter (2) from control valve (4). Discard adapter.
4. Cut sleeve (6) and nut (1) from tube (7). Discard sleeve and nut.



REPLACE EXTERNAL CABLE TUBE — Continued**0905 00**

5. Remove nut (1) and jam nut (2) from adapter (3). Remove adapter from support bracket (4).
6. Remove cable tube (5) from support bracket (4). Slide nut (1) and jam nut (2) from tube (5).
7. Loosen nut (6) on adapter (7).
8. Pull tube (5) through adapter (7). Remove adapter from hull plate.
9. Cut tube (5) above sleeve (8). Remove two nuts (6)(9) and remove tube with sleeve (10). Discard tube and sleeves.



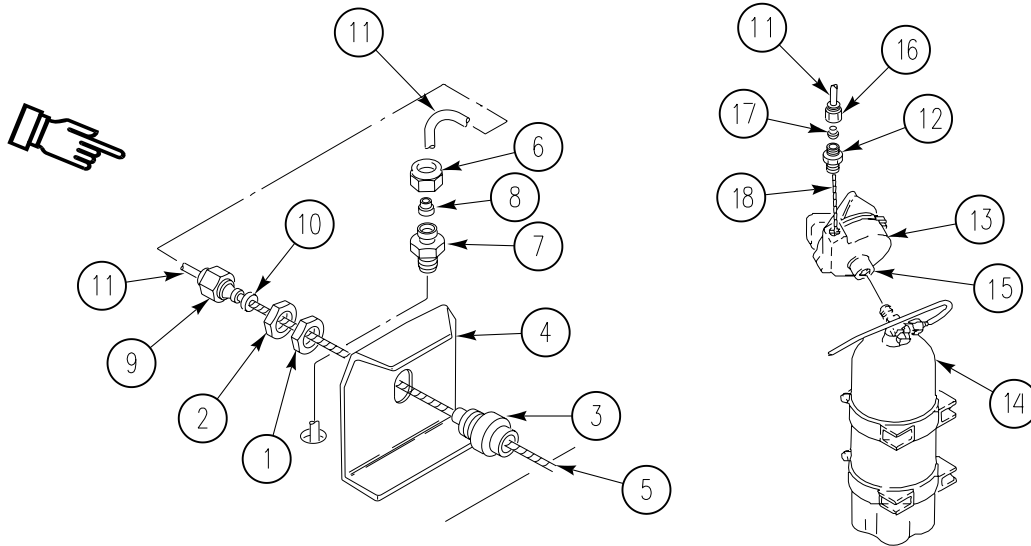
INSTALLATION

1. Install new sleeve (10), two nuts (1) and (2), and adapter (3) on new tube (11).

NOTE

Make sure nuts, sleeves, and adapter are installed in the proper order and facing the right direction as in illustration.

2. Install adapter (7) in hull plate. Secure tube (11) to adapter with sleeve (8) and nut (6).
3. Install adapter (3) in support bracket (4). Secure with nut (1) and jam nut (2).
4. Install tube (11) on adapter (3). Secure with flared sleeve (10) and nut (9).
5. Slide tube (11) through hole in hull plate.
6. Install new adapter (12) on control valve (13).
7. Install control valve (13) on fire extinguisher cylinder (14). Secure with captive nut (15).
8. Install new nut (16) and new sleeve (17) on tube (11).
9. Route cable (5) through tube (11). Tighten nut (16) on adapter (12).



FOLLOW-THROUGH STEPS

1. Install external handle and insert (WP 0904 00).
2. Install external handle shield (WP 0901 00), (WP 0902 00), or (WP 0903 00).

END OF TASK

CHAPTER 30

UNIT MAINTENANCE INSTRUCTIONS
FOR NUCLEAR, BIOLOGICAL, AND CHEMICAL (NBC) EQUIPMENT

WORK PACKAGE INDEX

<u>Title</u>	<u>Sequence No.</u>
DELETED.....	0906 00
DELETED.....	0907 00
DELETED.....	0908 00
DELETED.....	0909 00
DELETED.....	0910 00
DELETED.....	0911 00
DELETED.....	0912 00
DELETED.....	0913 00
REPLACE NBC AIR PURIFIER AND FRAME (M58 ONLY).....	0914 00
REMOVE/INSTALL NBC HOSE ASSEMBLIES (M58 ONLY).....	0915 00
REPLACE NBC ORIFICE CONNECTOR ASSEMBLY, MOUNTING BRACKET, AND SWITCH (M58 ONLY).....	0916 00
REMOVE/INSTALL NBC CABLE ASSEMBLY (M58 ONLY).....	0917 00
INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY).....	0918 00
REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE (M113A3 ONLY).....	0919 00
REPAIR CHEMICAL ALARM JUNCTION BOX (M113A3 ONLY).....	0920 00
REPLACE/REPAIR CHEMICAL ALARM SPARE BATTERY BRACKET (M113A3 ONLY).....	0921 00
REPLACE CHEMICAL ALARM REFILL TRAY BRACKET (M113A3 ONLY).....	0922 00
REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSSES (M113A3 ONLY).....	0923 00

REPLACE NBC AIR PURIFIER AND FRAME (M58 ONLY)

0914 00

THIS WORK PACKAGE COVERS:

Removal (page 0914 00-1).
 Installation (page 0914 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit WP 0926 00, Item 65

Materials/Parts

Corrosion preventive compound WP 0928 00, Item 23

Personnel Required

Unit Mechanic

References

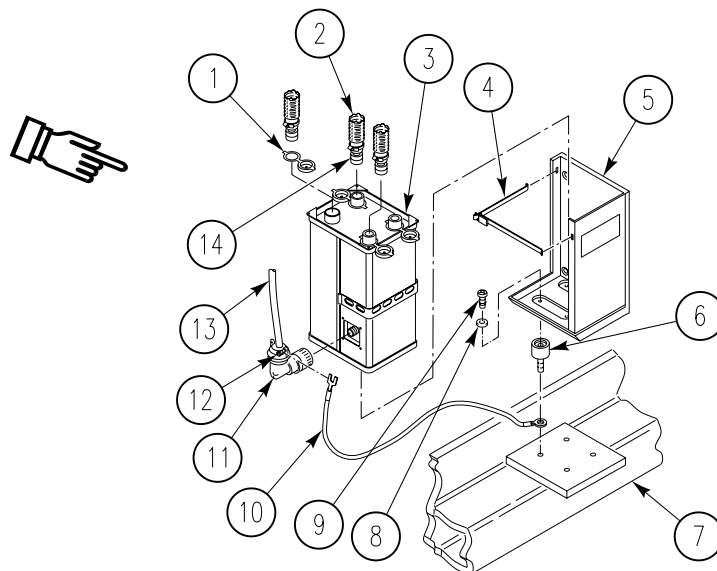
See your -10
 TM 3-6680-316-10

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)

REMOVAL

1. Pull collar (1) straight back on hose quick disconnects and remove three hose assemblies (2) on air purifier (4). Cover openings to air purifier with three dust cover caps (3).
2. Loosen screw (5) on right angle connector (6) on cable assembly (7). Pull slotted end of ground wire (8) out from screw (5). Tighten screw (5) on right angle connector (6).
3. Remove cable assembly (7) from air purifier (4).
4. Remove latch (9) from around air purifier (4) securing it to frame (10). Remove air purifier (4).
5. Remove four screws (11) and washers (12) securing frame (10) to mounts (13). Remove frame (10), ground wire (8), and four mounts (13) from box beam (14).

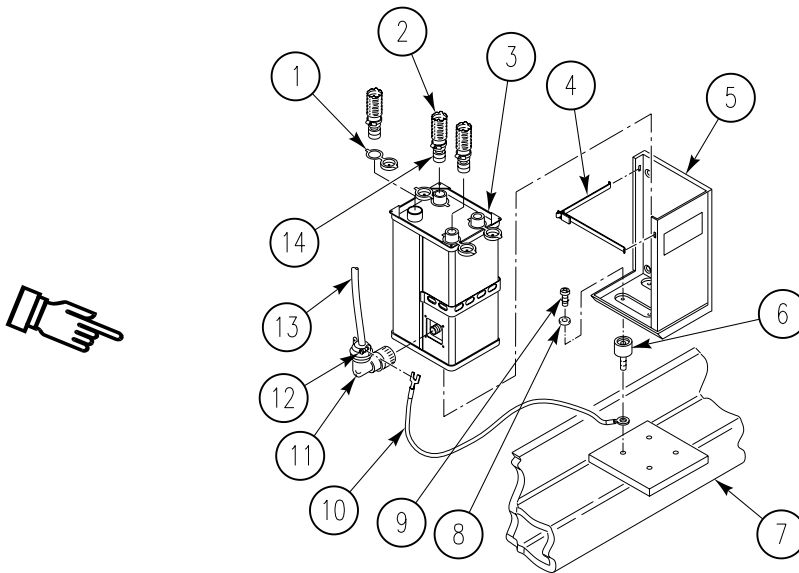


INSTALLATION

NOTE

Apply corrosion preventive compound to all threaded fasteners.

1. Install four mounts (1) on box beam (2). Install ground wire (3) and frame (4) on mounts (1). Align holes on frame (4) with mounts (1) and secure with four washers (5) and screws (6).
2. Install air purifier (7) in frame (4). Secure with latch (8).
3. Install cable assembly (9) on air purifier (7).
4. Loosen screw (10) on right angle connector (11) on cable assembly (9). Slide slotted end of ground wire (3) under screw (10). Tighten screw.
- 5. Remove dust cover caps (13) and install three quick disconnects (12) on adapters (14) on air purifier (7).



FOLLOW-THROUGH STEPS

NOTE

Precleaner must be adjusted to provide air at a flow rate of 3.0-4.5 cubic feet per minute (cfm) to all user outlets.

1. Adjust air purifier TM 3-6680-316-10.

END OF TASK

REMOVE/INSTALL NBC HOSE ASSEMBLIES (M58 ONLY)

0915 00

THIS WORK PACKAGE COVERS:

Removal (page 0915 00-1).
 Installation (page 0915 00-3).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 3-6680-316-10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)

Personnel Required

Unit Mechanic

REMOVAL

NOTE

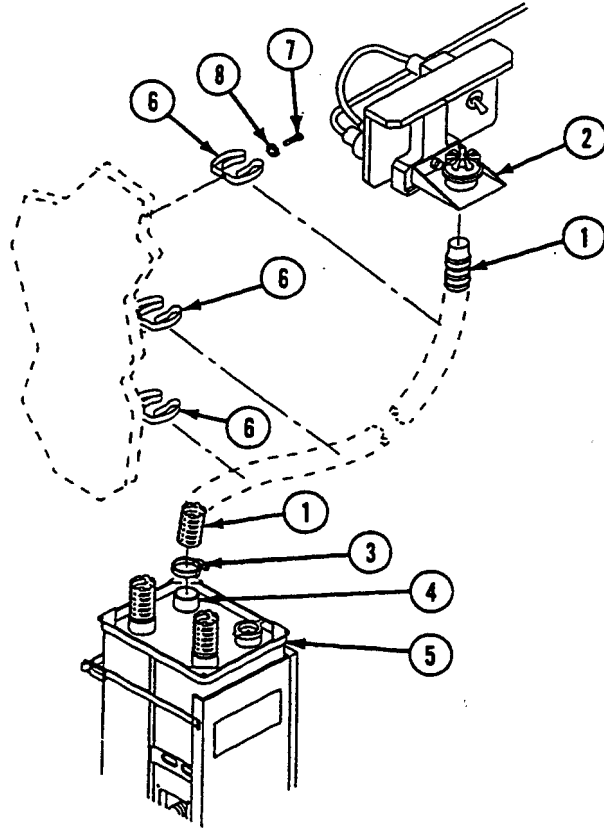
There are three NBC hose assemblies for the M58 vehicle; one for the commander, driver, and operator. All M58 NBC hose assemblies are removed/installed the same way.

1. Remove hose assembly (1) from orifice connector assembly (2).
2. Loosen and remove clamp (3) and hose assembly (1) from adapter (4) on air purifier (5).
3. Remove hose assembly (1) from clip springs (6) securing hose assembly (1) to vehicle.

NOTE

Do Step 4 only if clip spring is damaged.

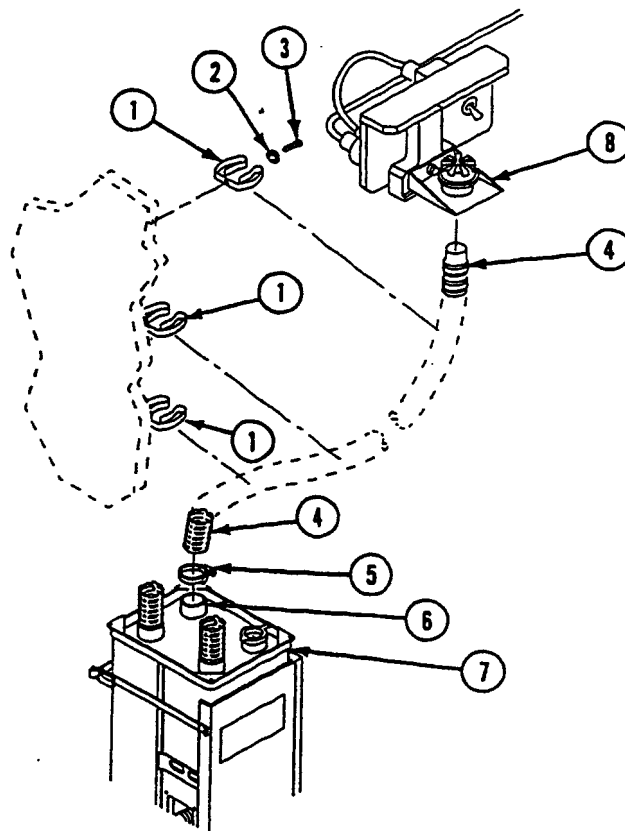
4. Remove screw (7), lockwasher (8), and clip spring (6) from weldnut. Discard lockwasher and damaged clip spring.



INSTALLATION**NOTE**

Do Step 1 if clip spring was removed.

1. Install new clip spring (1), new lockwasher (2), and screw (3) on weldnut. Secure clip spring in vehicle.
2. Install hose assembly (4) on clip springs (1) securing hose assembly (4) to vehicle.
3. Install hose assembly (4) and clamp (5) on adapter (6) of air purifier (7). Lock clamp.
4. Install hose assembly (4) on orifice connector assembly (8).

**FOLLOW-THROUGH STEPS**

1. Check air flow of NBC System. Follow procedures in TM 3-6680-316-10.

END OF TASK

REPLACE NBC ORIFICE CONNECTOR ASSEMBLY, MOUNTING BRACKET, AND SWITCH (M58 ONLY) 0916 00

THIS WORK PACKAGE COVERS:

Removal (page 0916 00-1).
 Installation (page 0916 00-5).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
 Retaining Ring Pliers Set (WP 0926 00, Item 32)

References

See your -10
 TM 3-6680-316-10

Materials/Parts

Corrosion preventive compound (WP 0928 00, Item 24)
 Lockwasher

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)

REMOVAL

NOTE

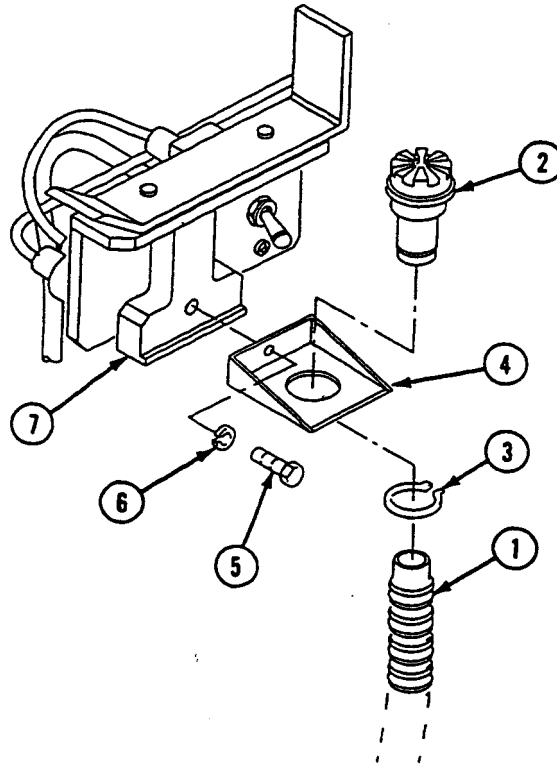
There are three orifice connector assemblies and mounting brackets for the M58 vehicle; one for the commander, driver, and operator. All are removed/installed the same way.

1. Remove hose assembly (1) from orifice connector assembly (2).
2. Remove retaining ring (3) from orifice connector assembly (2).
3. Remove orifice connector assembly (2) from mounting bracket (4).

REPLACE NBC ORIFICE CONNECTOR ASSEMBLY, MOUNTING BRACKET, AND SWITCH (M58 ONLY) — Continued

0916 00

4. Remove screw (5), lockwasher (6), and mounting bracket (4) from support (7). Discard lockwasher.



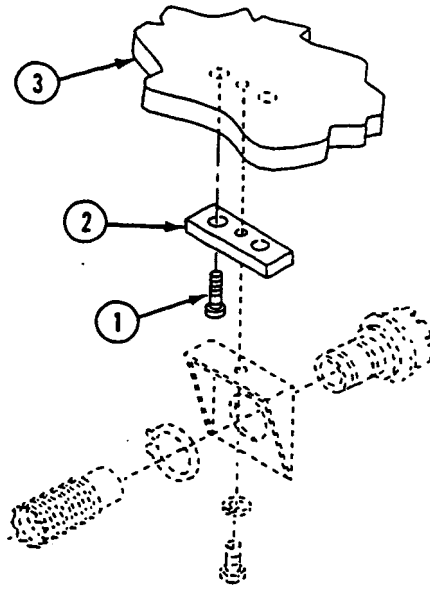
REPLACE NBC ORIFICE CONNECTOR ASSEMBLY, MOUNTING BRACKET, AND SWITCH (M58 ONLY) — Continued

0916 00

NOTE

Do Step 5 if removing commander's and operator's support. Do Step 6 if removing driver's support and angle.

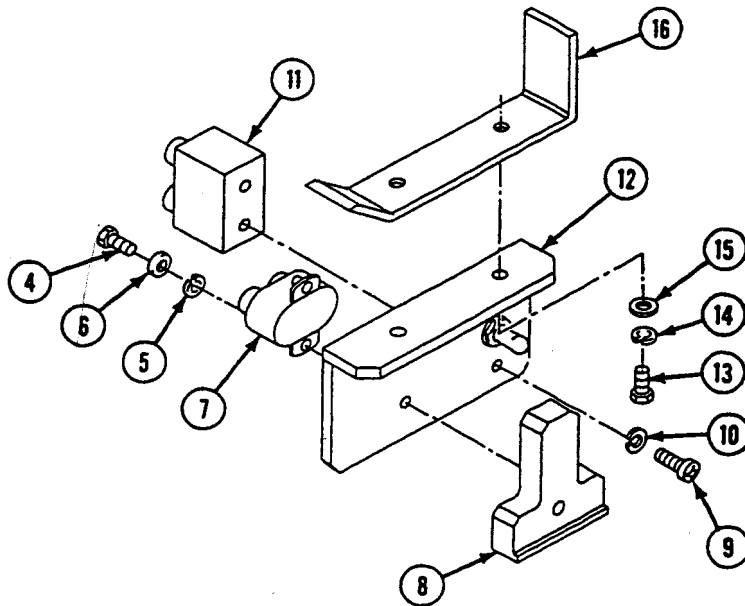
5. Remove two screws (1) and support (2) from top plate (3).



REPLACE NBC ORIFICE CONNECTOR ASSEMBLY, MOUNTING BRACKET, AND SWITCH (M58 ONLY) — Continued

0916 00

6. Remove two screws (4), lockwashers (5), washer (6), circuit breaker (7), and support (8). Retain screws and washers. Discard lockwashers.
7. Remove two screws (9), lockwasher (10), and switch (11) from angle (12). Retain screws and discard lockwashers.
8. Remove two screws (13), lockwashers (14), washers (15), and angle (12) from bracket (16). Discard lockwashers.



REPLACE NBC ORIFICE CONNECTOR ASSEMBLY, MOUNTING BRACKET, AND SWITCH (M58 ONLY) — Continued

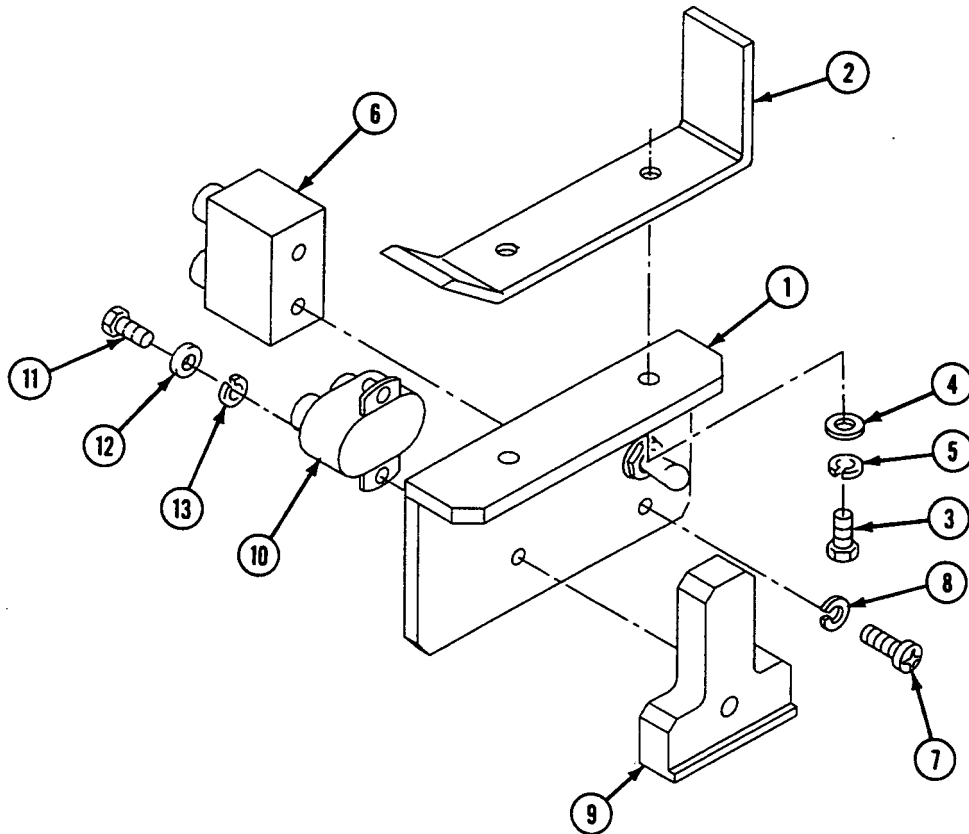
0916 00

INSTALLATION**NOTE**

Apply corrosion preventive compound to all threaded fasteners.

Do Steps 1 - 3 if installing driver's support and angle.

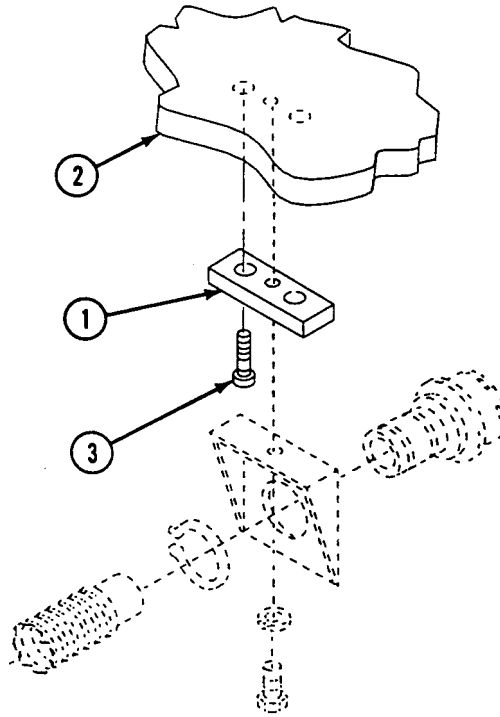
1. Align holes in angle (1) with holes in bracket (2). Secure angle (1) to bracket (2) with two screws (3), washers (4), and new lockwashers (5).
2. Install switch (6) on angle (1) with two screws (7) and new lockwashers (8).
3. Align holes in support (9) with holes in angle (1). Secure support (9) on angle (1) with circuit breaker (10), two screws (11), washers (12), and new lockwashers (13).



NOTE

Do Step 4 if installing commander's and operator's support. Do Step 5 if installing orifice connector mounting bracket for commander, driver, or operator.

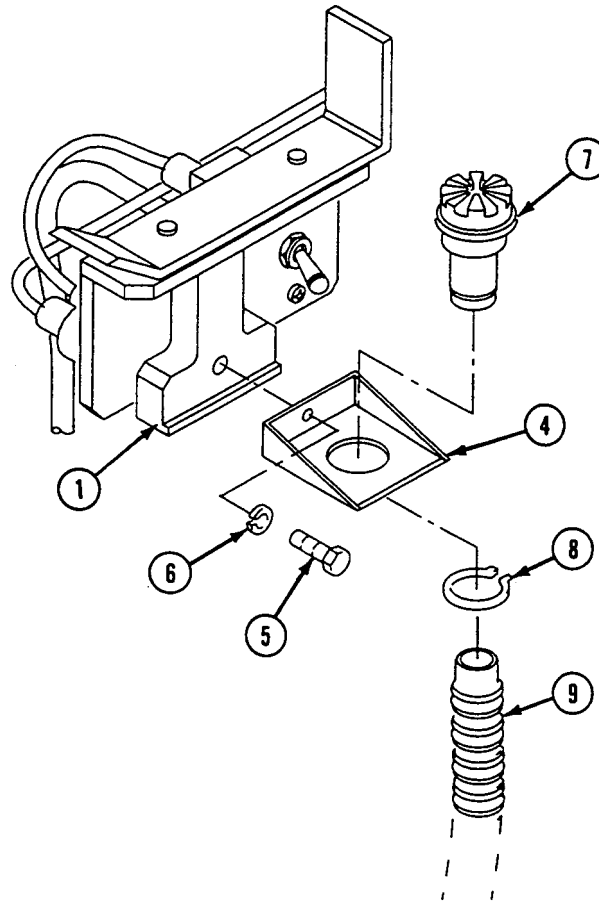
4. Install support (1) on top plate (2). Secure with two screws (3).



REPLACE NBC ORIFICE CONNECTOR ASSEMBLY, MOUNTING BRACKET, AND SWITCH (M58 ONLY) — Continued

0916 00

5. Install mounting bracket (4) on support (1). Secure with screw (5) and new lockwasher (6).
6. Insert orifice connector assembly (7) into mounting bracket (4) and install retaining ring (8).
7. Install hose assembly (9) on orifice connector assembly (7).

**FOLLOW-THROUGH STEPS**

1. Start engine (see your -10).
2. Stop engine (see your -10).
3. Check air flow of NBC system. Follow procedures in TM 3-6680-316-10.

END OF TASK

REMOVE/INSTALL NBC CABLE ASSEMBLY (M58 ONLY)

0917 00

THIS WORK PACKAGE COVERS:

Removal (page 0917 00-1).
 Installation (page 0917 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

References

See your -10

Materials/Parts

Corrosion preventive compound (WP 0928 00, Item 24)
 Lockwasher (3)

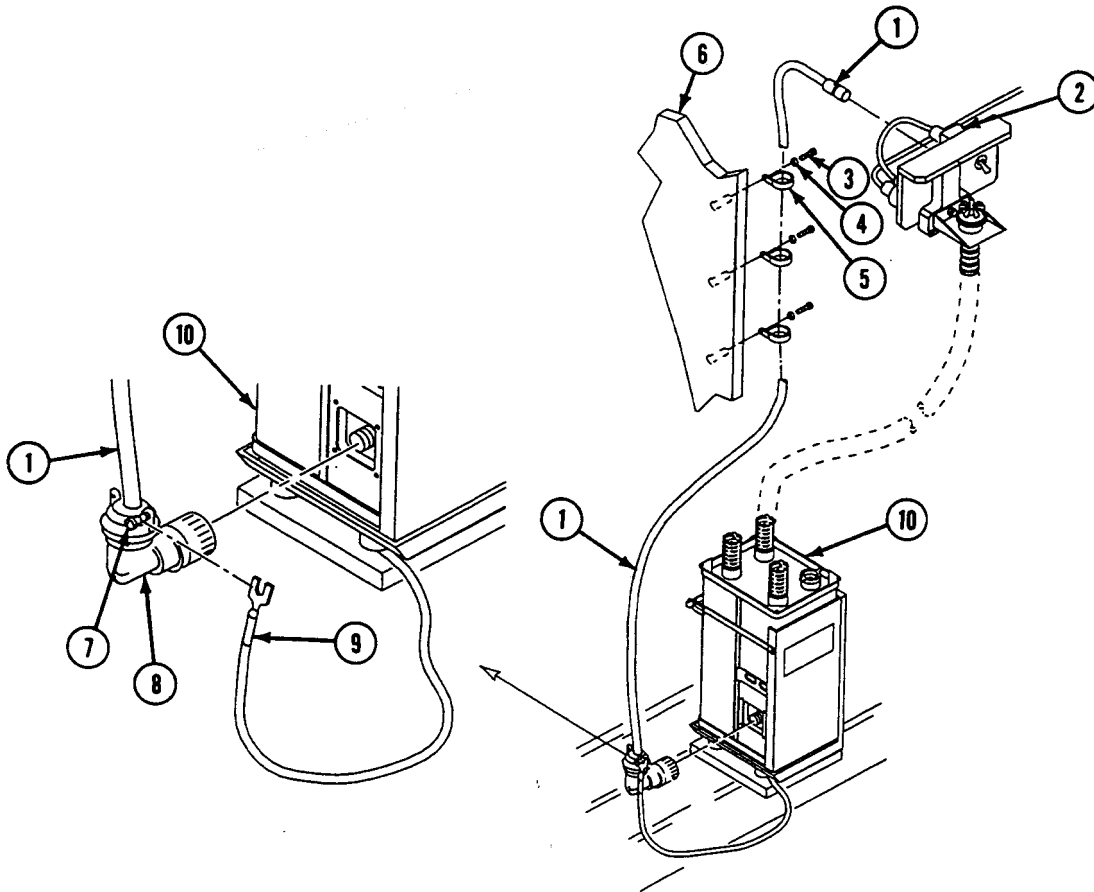
Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Ramp lowered (see your -10)

REMOVAL

1. Remove cable assembly lead (1) from switch (2).
2. Remove three screws (3), lockwashers (4), and clamps (5) securing cable assembly (1) to bulkhead (6). Remove clamps (5) from cable assembly (1). Discard lockwashers.
3. Loosen screw (7) on right angle connector (8) on cable assembly (1). Pull slotted end of ground wire (9) out from screw (7).

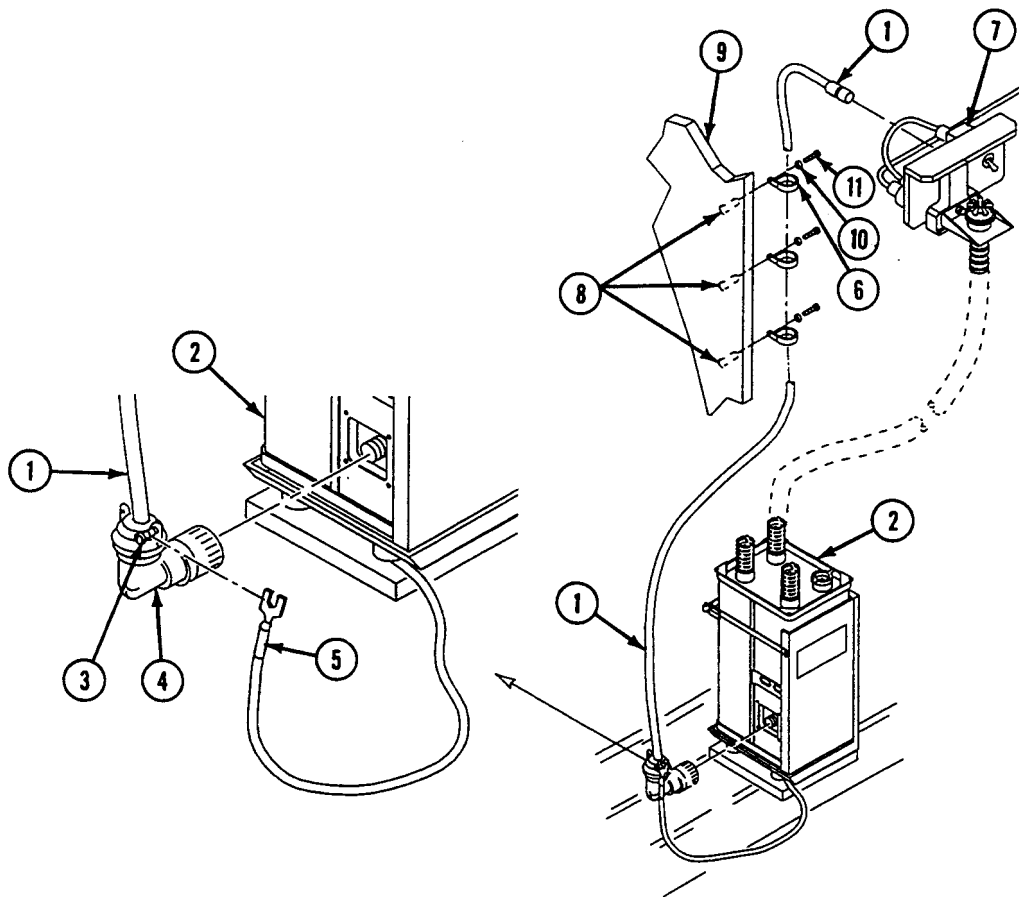
4. Remove cable assembly (1) from air purifier (10).



INSTALLATION**NOTE**

Apply corrosion preventive compound to all threaded fasteners.

1. Install cable assembly (1) on air purifier (2).
2. Loosen screw (3) on right angle connector (4) on cable assembly (1). Slide slotted end of ground wire (5) under screw (3). Tighten screw.
3. Route cable assembly (1) through clamps (6).
4. Install cable assembly (1) on switch (7).
5. Align clamps (6) with weld nuts (8) on bulkhead (9). Secure with new lockwashers (10) and screws (11).

**FOLLOW-THROUGH STEPS**

1. Start engine (see your -10).
2. Raise and lock ramp (see your -10).
3. Stop engine (see your -10).

END OF TASK

INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY)

0918 00

THIS WORK PACKAGE COVERS:

Installation (page 0918 00-1).
Removal (page 0918 00-8).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit WP 0926 00, Item 65

Materials/Parts

Locknut (2)
Locknut (4)
Locknut (4)
Lockwasher
Lockwasher

Personnel Required

Unit Mechanic
Helper

References

See your -10
TM 3-6665-225-12
TM 3-6665-273-20

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
Ramp lowered (see your -10)
Battery ground strap disconnected (WP 0337 00)

INSTALLATION

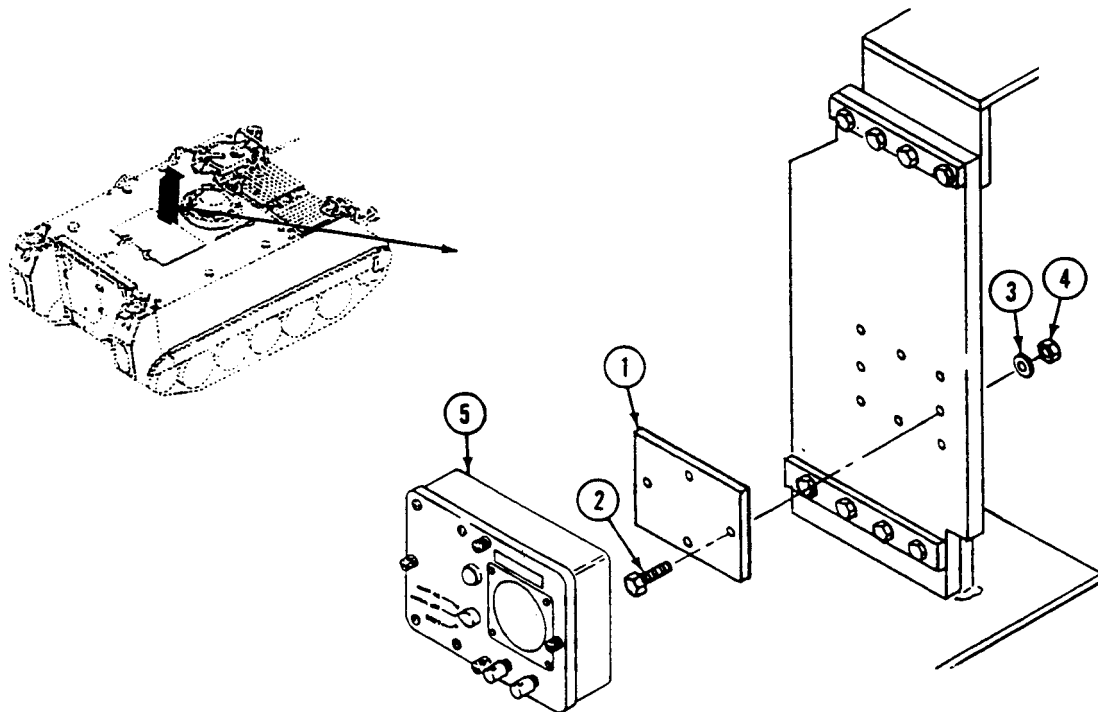
NOTE

Check Alarm Kit before starting installation. Be sure Alarm Kit is complete. Install kit in right rear and left side center of troop compartment. Move spall liners, as required, to access mounting areas.

1. Install chemical alarm refill tray bracket (WP 0922 00).
2. Install chemical alarm spare battery bracket (WP 0921 00).
3. Install M182 mounting bracket (1). Use four screws (2), washers (3), and locknuts (4) on spall liner behind driver's seat.

Continued

4. Attach M42 Chemical Alarm Unit (5) to mounting bracket (1).

**NOTE**

Alarm cable is connected to alarm unit at one end, and to junction box at other end.

5. Route alarm cable (1) over radio brackets (2) with one end at alarm unit (3) and other end at junction box (4) attachment point.
6. Connect one end of alarm cable (1) leads 509B (5) and 509C (6) to alarm unit (3) terminals (7).

NOTE

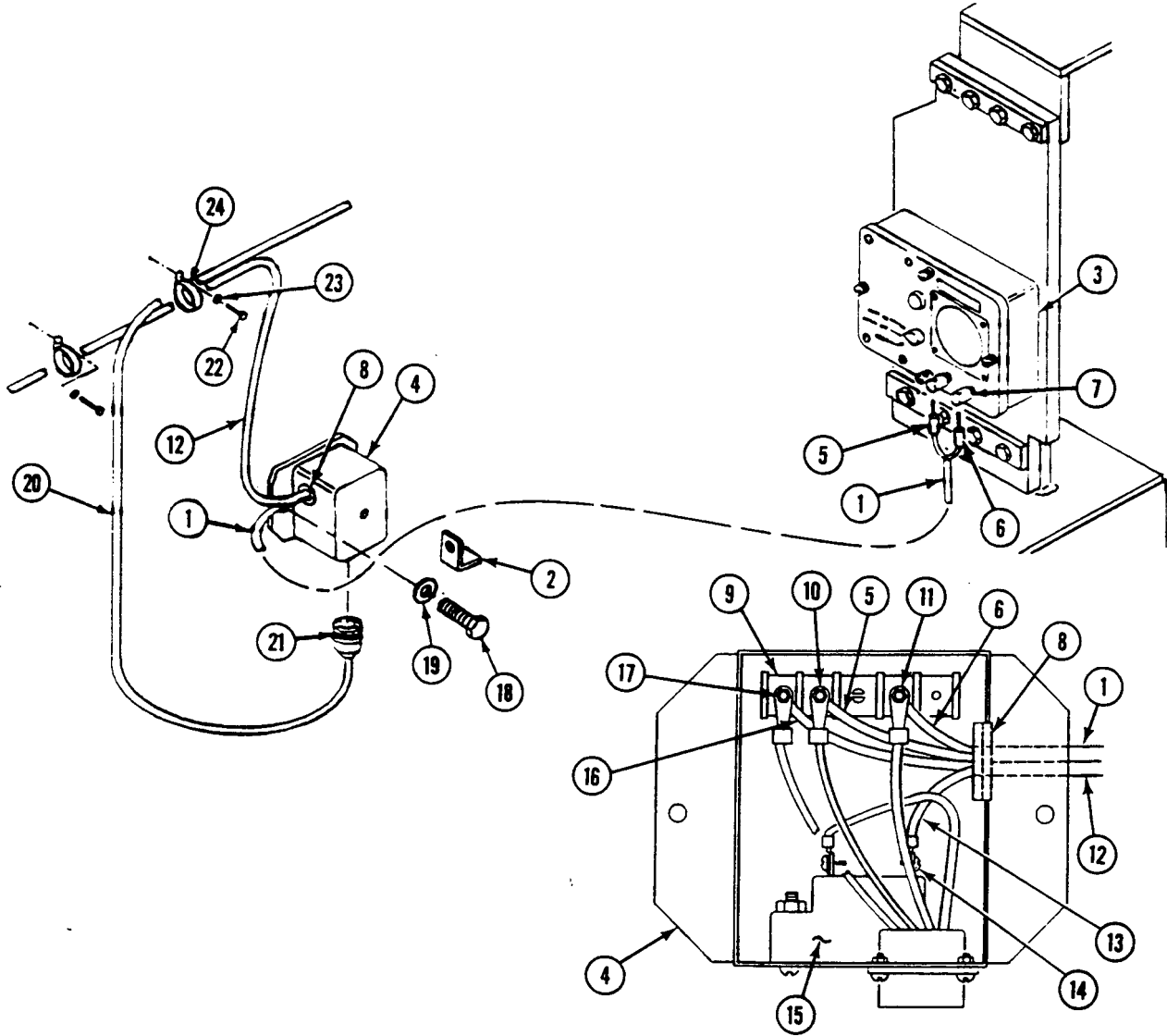
When removing terminal screws in junction box, to connect new cable leads, keep existing leads attached to correct terminals.

7. Insert other end of alarm cable (1) through grommet (8) into junction box (4) and connect to terminal board (9) as follows:
- Lead 509B (5) to terminal (10). Lead 509C (6) to terminal (11).
8. Insert power cable (12) leads through grommet (8) into junction box (4) and connect as follows:
- Lead 6B POS (13) to terminal (14) on circuit breaker (15). Lead 7B NEG (16) to terminal (17) on terminal board (9).
9. Install junction box (4) on carrier hull with two screws (18) and washers (19).
10. Connect wiring harness (20) plug (21) to jack on bottom of junction box (4).

INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

11. Remove screw (22), washer (23) and clamp (24). Route wiring harness (20) through clamp (24). Do not re-attach clamp at this time.



NOTE

Tag all leads before disassembling.

12. Remove C-clip retainers (1) and backshells (2) from four leads (3) on end of wiring harness (4).
13. From harness (4), remove coupling nut (5), spring tension washer (6), retainer (7), bushing (8), nut (9), lockwasher (10), flat washer (11), and insulator washer (12).
14. Remove and save for future use four screws (13), cover plate (14), and gasket (15).
15. Insert harness (4) through hole in carrier top plate. Have helper assist.
16. On harness (4), re-install insulator washer (12), flat washer (11), lockwasher (10), nut (9), bushing (8), retainer (7), spring tension washer (6) and coupling nut (5).
17. Re-install backshells (2) and C-clip retainers (1) on four leads (3) of harness (4).

NOTE

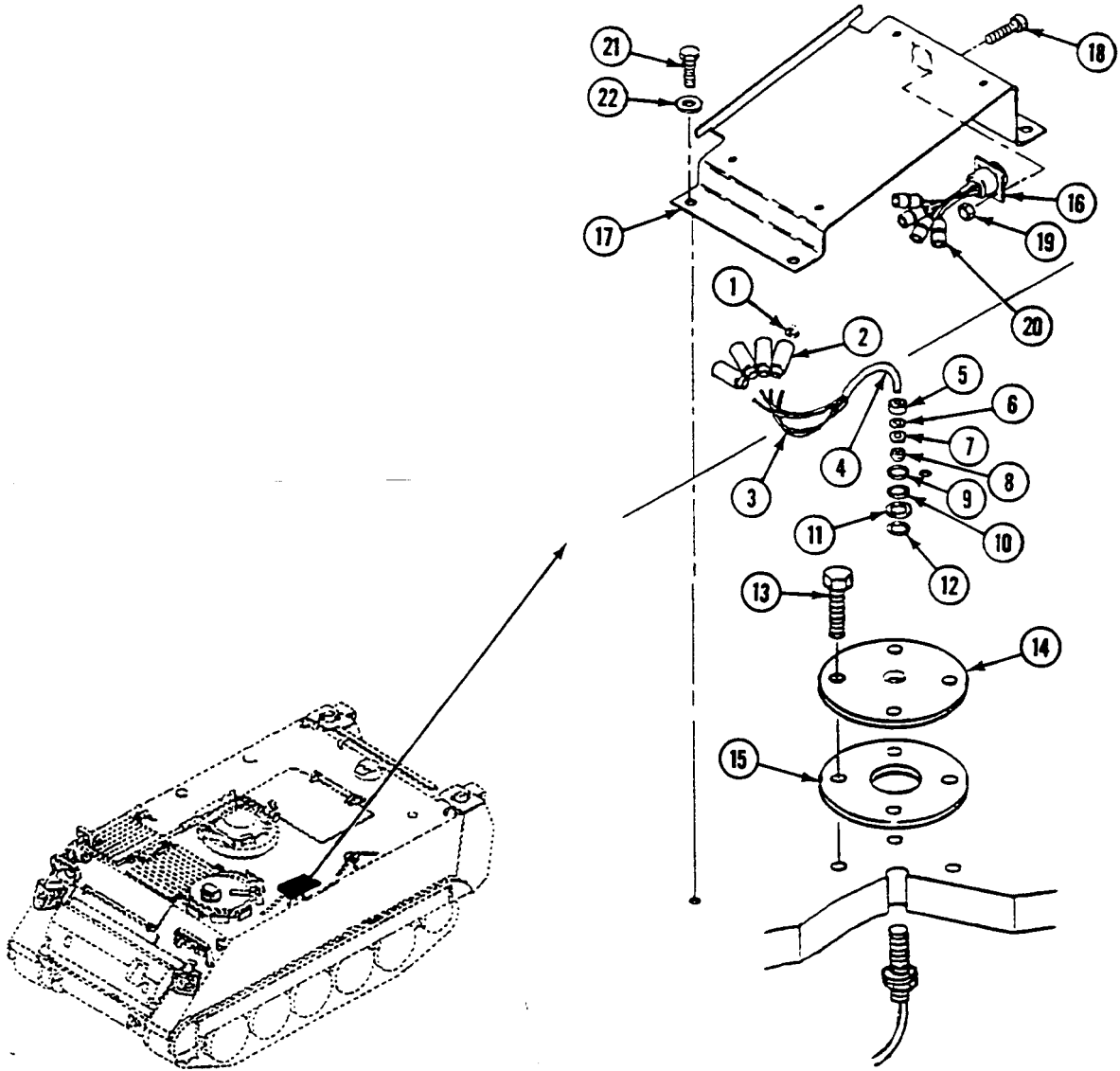
Four replacement screws are shorter than screws removed with cover plate.

18. Install four replacement screws (13) in four holes exposed on carrier top plate.
19. Attach wiring harness (16) to bracket (17) with four screws (18) and locknuts (19).
20. Connect harness (4) leads (3) to harness (16) leads (20) as follows:
 - 509E to 509G
 - 509F to 509H
 - 6D POS to 6E POS
 - 7D NEG to 7E NEG

INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

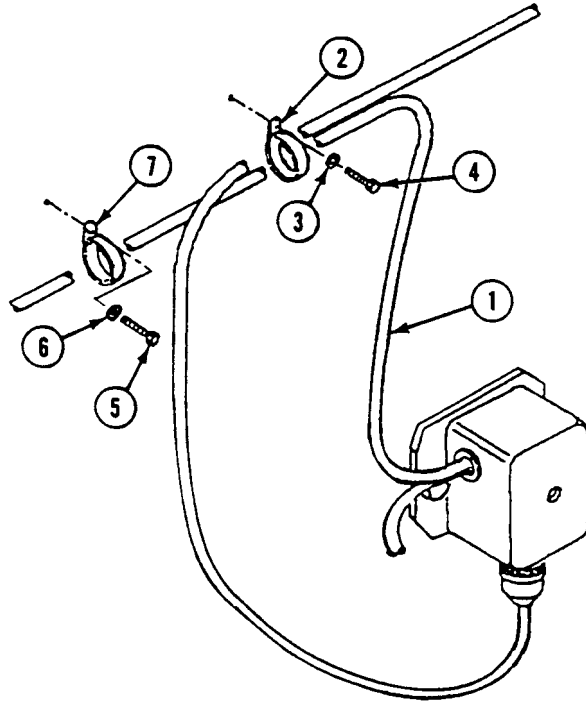
21. Install bracket (17) on carrier with four screws (21) and washers (22).



INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

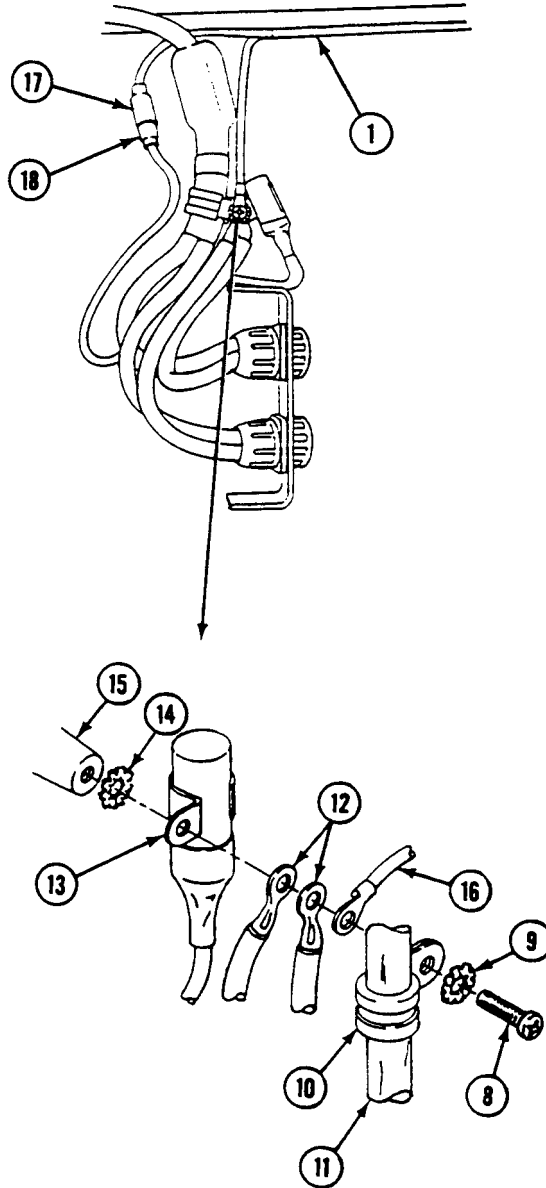
22. Route power cable (1) through clamp (2) previously removed (Step 11). Re-attach clamp (2) with washer (3) and screw (4).
23. Remove screw (5), washer (6) and clamp (7). Install power cable (1) through clamp (7) and re-attach with washer (6) and screw (5).



INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

24. Remove screw (8), lockwasher (9), clamp (10) with cable (11), two ground leads (12), capacitor bracket (13), and lockwasher (14) from weldnut (15). Discard lockwashers.
25. On weldnut (15), install new lockwasher (14), capacitor bracket (13), two ground leads (12), power cable (1), ground lead (16), clamp (10) with cable (11), new lockwasher (9), and screw (8).
26. Connect power cable (1) plug 6B POS (17) to battery power lead socket (18).



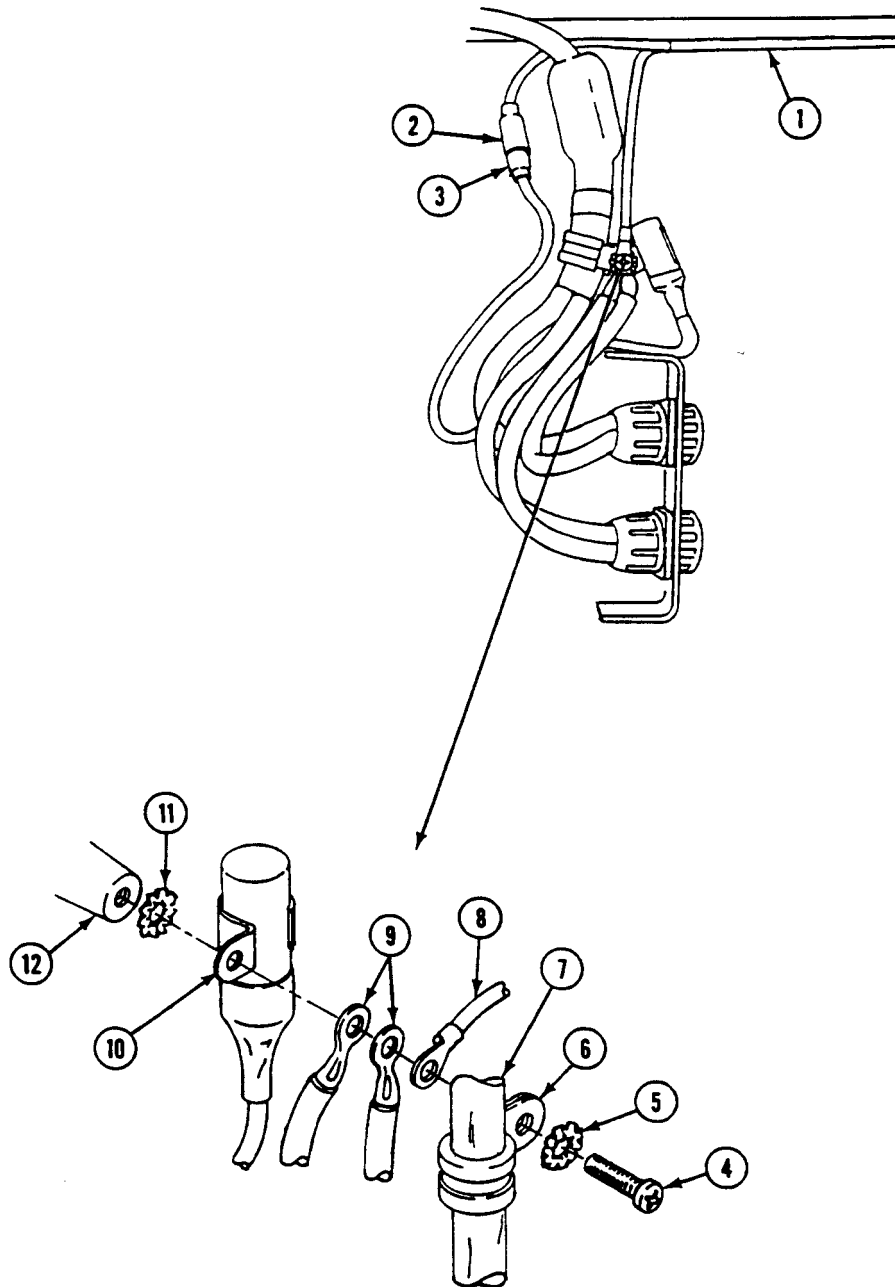
27. Connect battery ground strap (WP 0337 00). Be sure that no grounds or shorts exist see TM 3-6665-273-20.

INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

REMOVAL

1. Disconnect power cable (1) plug 6B POS (2) from battery power lead socket (3).
2. Remove screw (4), lockwasher (5), clamp (6) with cable (7), power cable (1) ground lead (8), two ground leads (9), capacitor bracket (10), and lockwasher (11) from weldnut (12). Discard lockwashers.
3. On weldnut (12), install new lockwasher (11), capacitor bracket (10), two ground leads (9), clamp (6) with cable (7), new lockwasher (5), and screw (4).

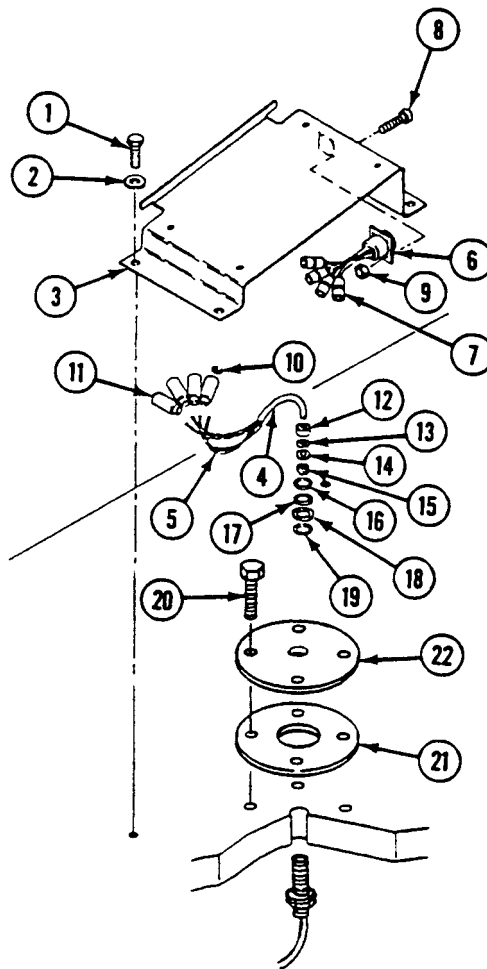


4. Remove four screws (1), washers (2), and bracket (3) from carrier top plate. Re-install four screws (1) and washers (2) in top plate holes to protect threads.

NOTE

Tag all leads before disconnecting.

5. Disconnect wiring harness (4) leads (5) from wiring harness (6) leads (7).
6. Remove four screws (8), locknuts (9), and wiring harness (6) from bracket (3). Discard locknuts.

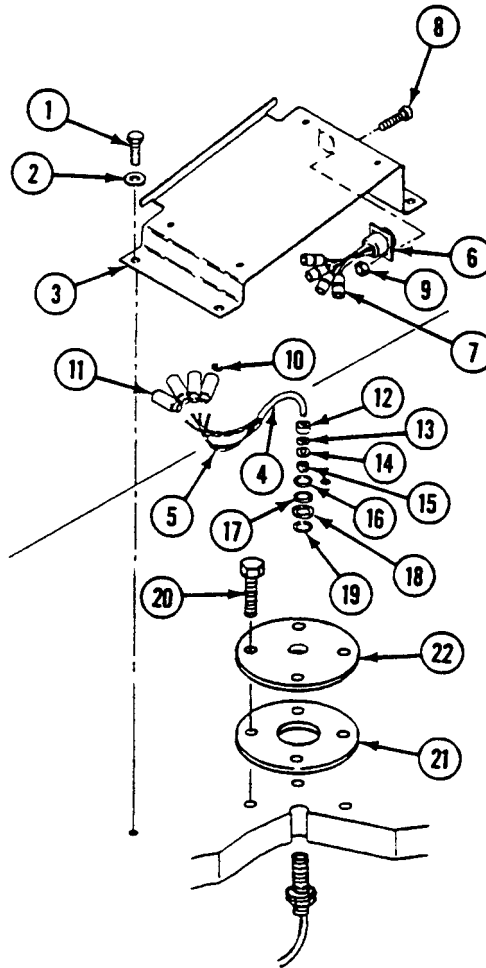


7. Remove C-clip retainers (10) and backshells (11) from four wiring harness (4) leads (5). Save retainers.
8. Remove coupling nut (12), spring tension washer (13), retainer (14), bushing (15), nut (16), lockwasher (17), flat washer (18), and insulator washer (19) from harness (4).
9. Push harness (4) through hole in carrier top plate. On harness (4), re-install insulator washer (19), flat washer (18), lockwasher (17), nut (16), bushing (15), retainer (14), spring tension washer (13), and coupling nut (12).

NOTE

Cover plate retention screws are longer than replacement screws in top plate holes.

10. Remove four replacement screws (20) from cover plate holes in carrier top plate. Save screws.
11. Install gasket (21) and cover plate (22). Secure with four longer screws (20).



12. Disconnect wiring harness (1) plug (2) from jack on bottom of junction box (3).
13. Remove two screws (4), washers (5), and junction box (3) from hull.

NOTE

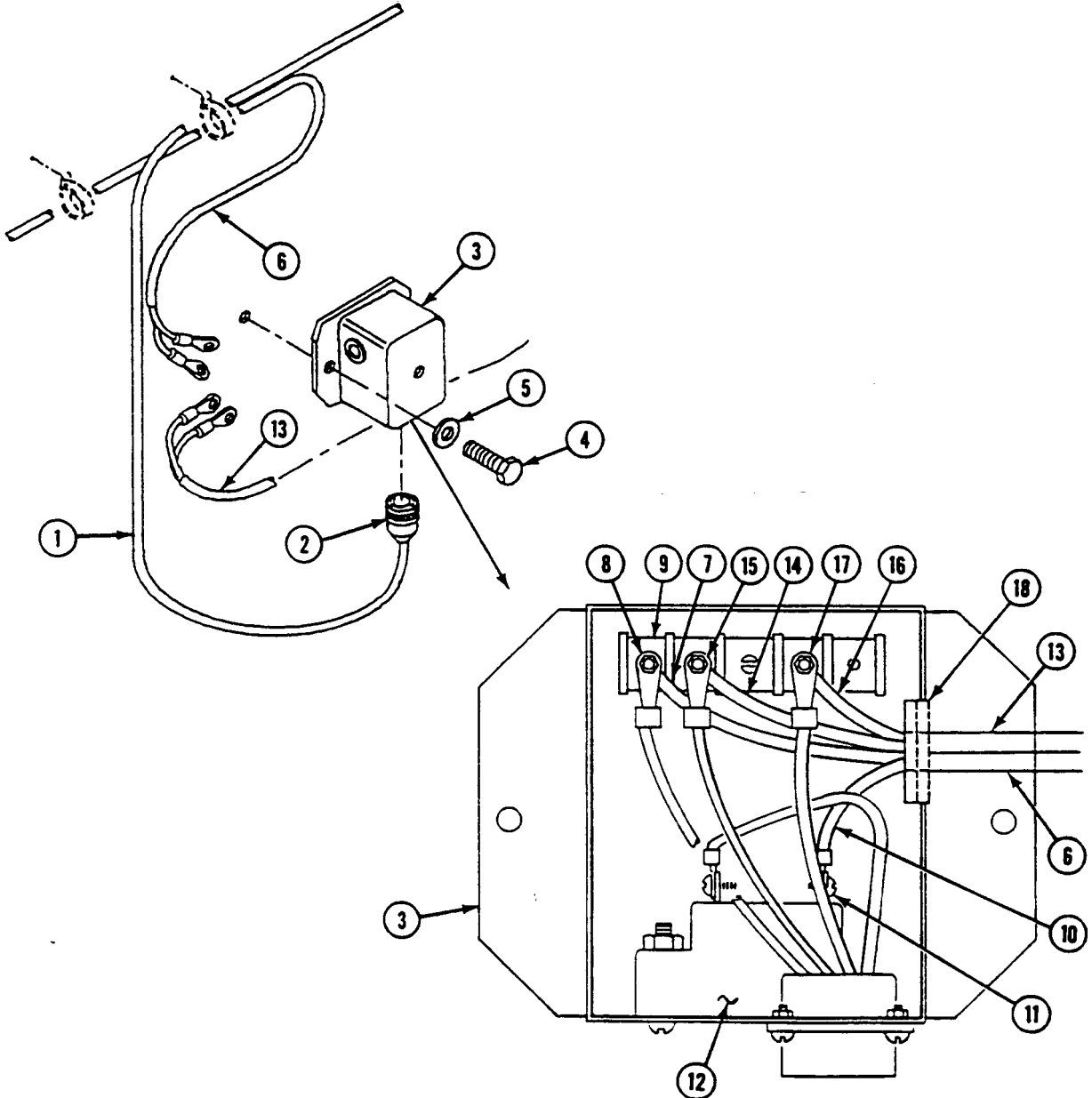
Only remove indicated leads. Four leads of internal harness should stay attached to terminals inside junction box.

14. Disconnect power cable (6) leads from junction box (3) as follows:
 - a. Lead 7B NEG (7) from terminal (8) on terminal board (9). Lead 6B POS (10) from terminal (11) on circuit breaker (12).

INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

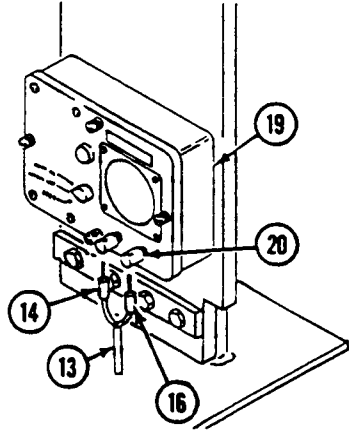
15. Disconnect alarm cable (13) leads from junction box (3) terminal board (9) as follows:
 - Lead 509B (14) from terminal (15).
 - Lead 509C (16) from terminal (17).
16. Pull cable (6) and (13) leads out of junction box (3) through grommet (18).



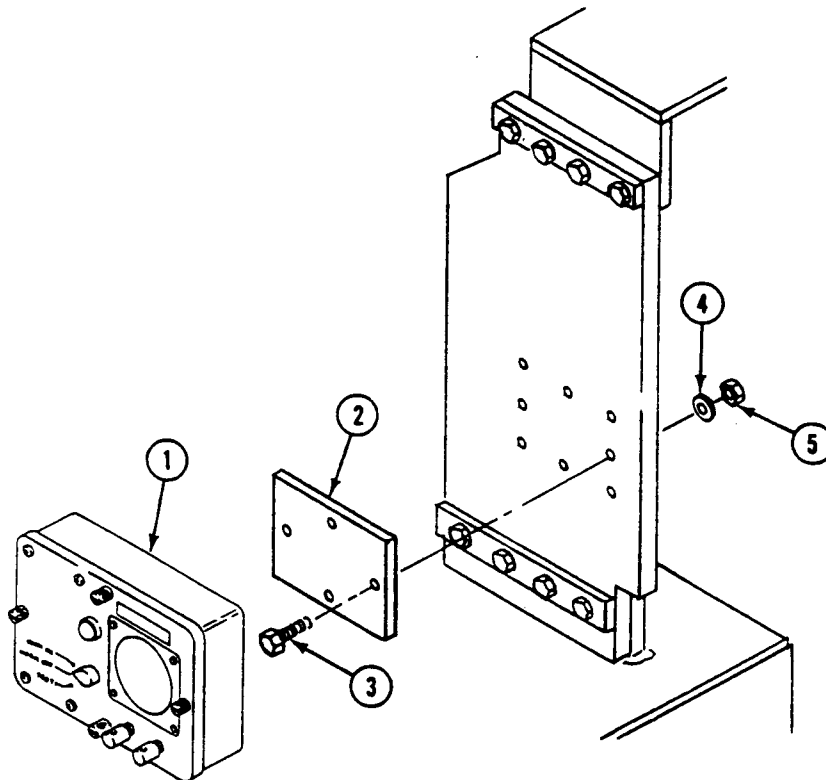
INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

17. Disconnect alarm cable (13) lead 509B (14) and lead 509C (16) from M42 Chemical Alarm Unit (19) terminals (20).



18. Remove M42 Chemical Alarm Unit (1) from bracket (2).
 19. Remove four screws (3), washers (4), locknuts (5), and M182 mounting bracket (2) from spall liner behind driver.
 20. Remove chemical alarm spare battery bracket (WP 0921 00).
 21. Remove chemical alarm refill tray bracket (WP 0922 00).



INSTALL/REMOVE CHEMICAL AGENT AUTOMATIC ALARM KIT (M113A3 ONLY) —
Continued

0918 00

FOLLOW-THROUGH STEPS

1. Connect battery ground strap (WP 0337 00).
2. Start engine (see your -10).
3. Raise and lock ramp (see your -10).
4. Stop engine (see your -10).

END OF TASK

**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM
CABLE (M113A3 ONLY)**

0919 00

THIS WORK PACKAGE COVERS:

- Removal (page 0919 00-2).
- Inspection (page 0919 00-6).
- Repair (page 0919 00-7).
- Installation (page 0919 00-8).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 3-6665-274-20

Tools and Special Tools

General Mechanic's Tool Kit WP 0926 00, Item 65
Multimeter WP 0926 00, Item 30

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
Battery ground strap disconnected (WP 0919 00)

Materials/Parts

Lockwasher (2)

Personnel Required

Unit Mechanic

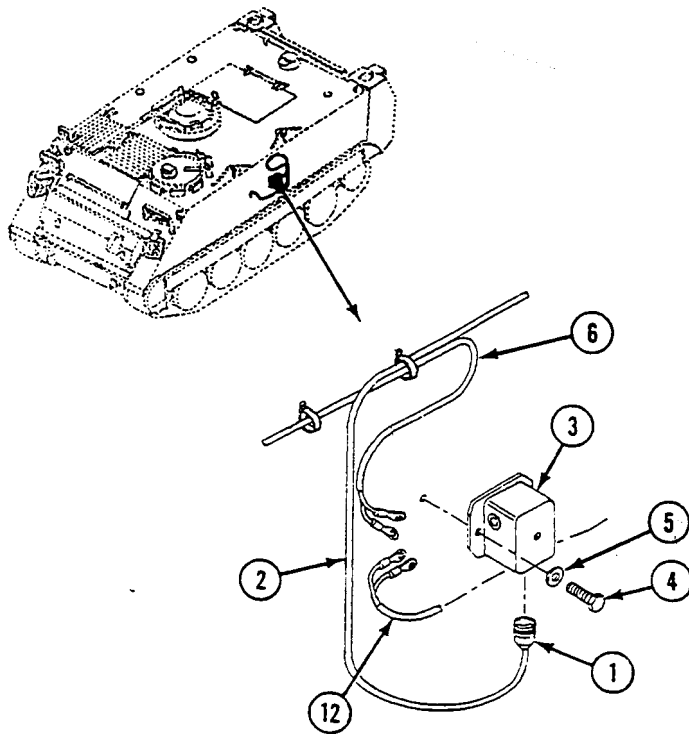
REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued

0919 00

REMOVAL**NOTE**

Move spall liners as required to gain access to junction box.

1. Remove wiring harness plug (1) on cable (2) from jack on bottom of junction box (3).
2. Remove two screws (4), washers (5), and junction box (3) from hull.



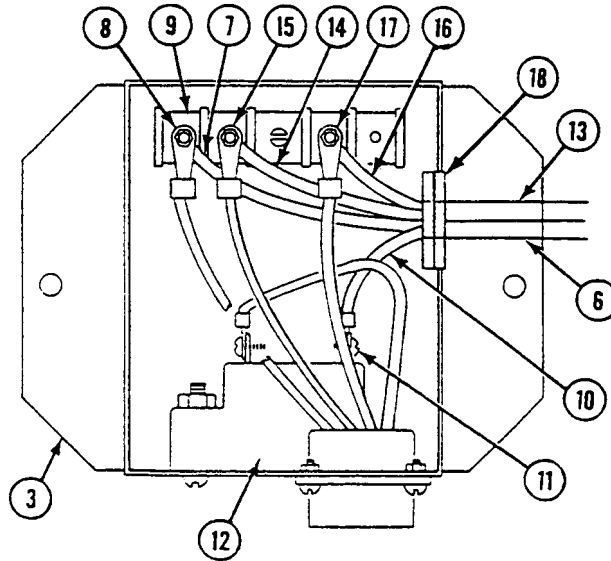
**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

0919 00

NOTE

Tag all leads before disassembly

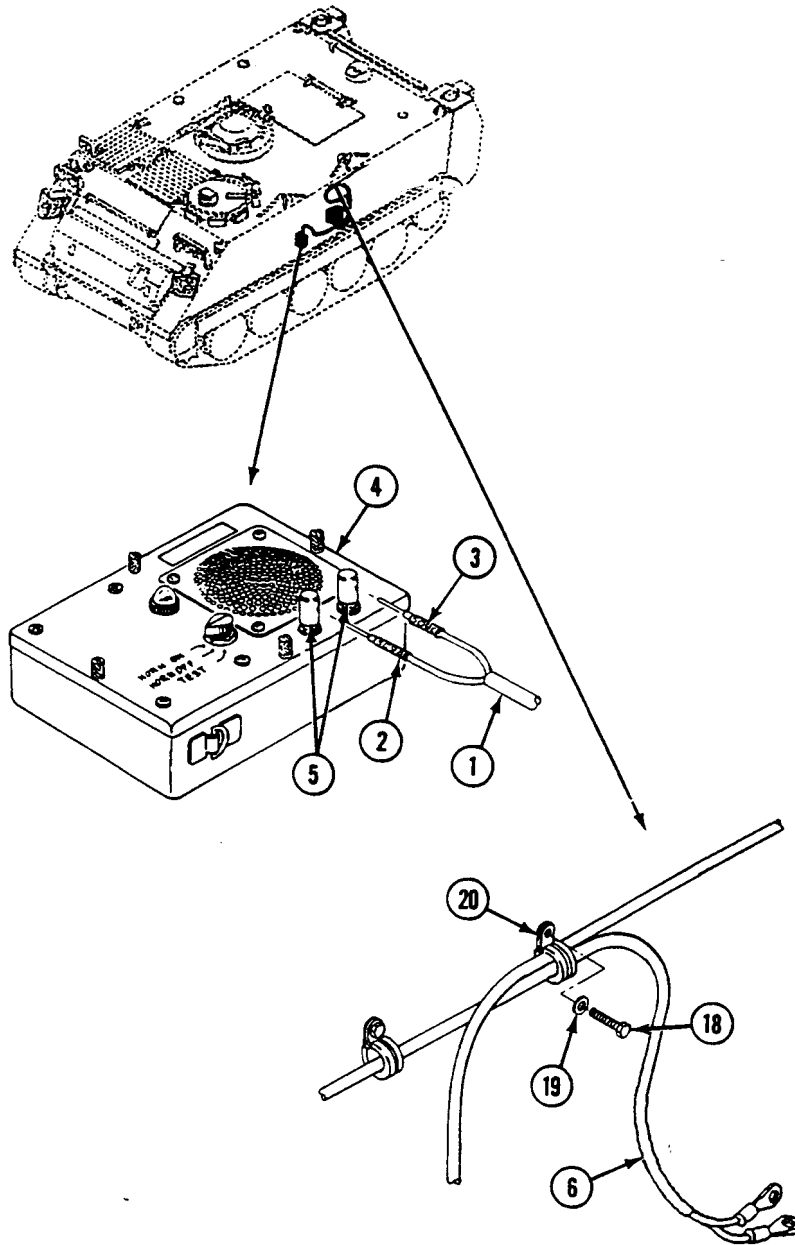
3. Disconnect power cable (6) lead 7B NEG (7) from terminal (8) on terminal board (9) and lead 6B POS (10) from terminal (11) on circuit breaker (12).
4. Disconnect alarm cable (13) lead 509B (14) from terminal (15) and lead 509C (16) from terminal (17) on terminal board (9).
5. Pull cable leads out of junction box (3) through grommet (18).



REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued

0919 00

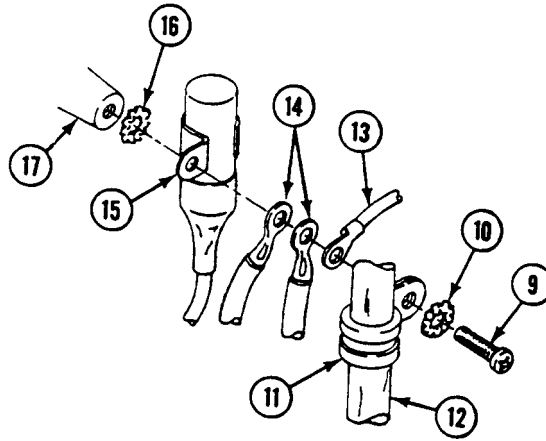
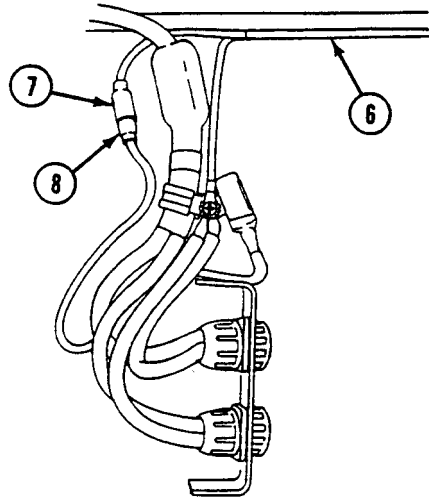
6. Disconnect alarm cable (1) lead 509B (2) and lead 509C (3) from M42 Chemical Alarm Unit (4) terminals (5).



**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

0919 00

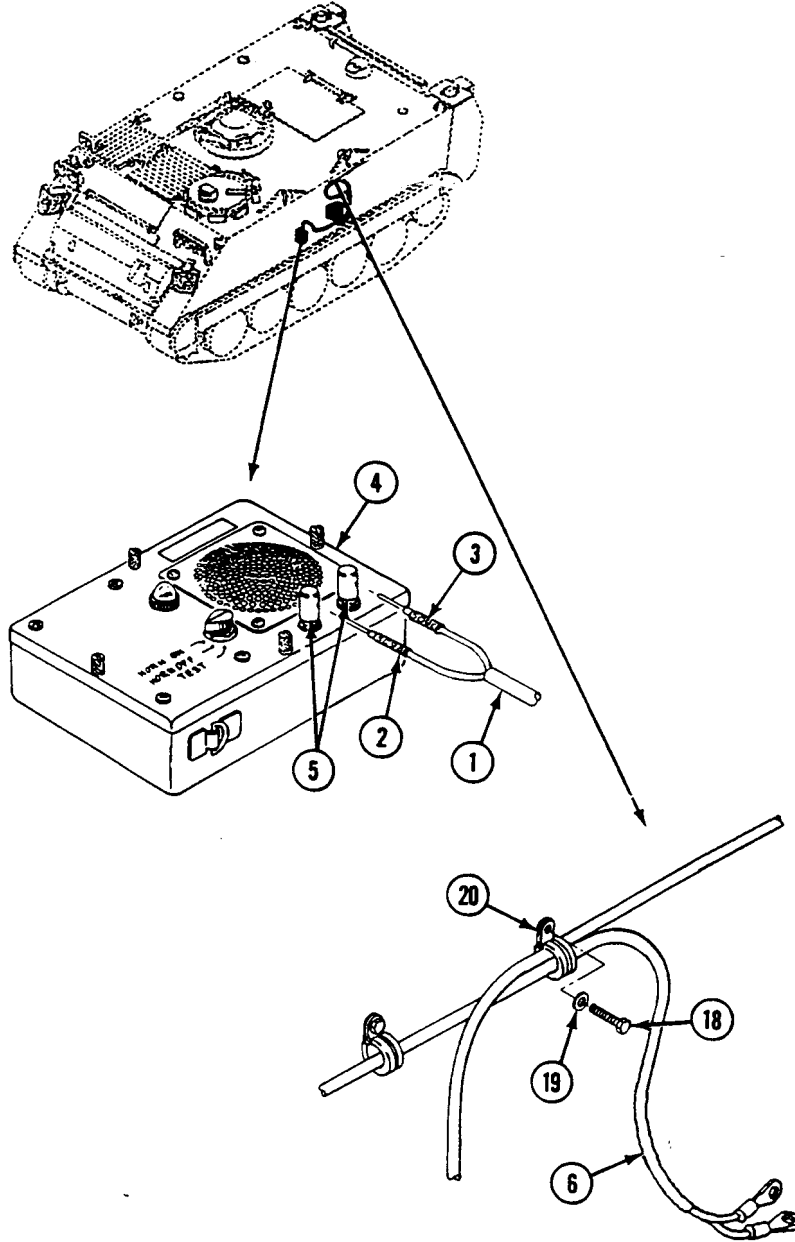
7. Disconnect power cable (6) plug 6B POS (7) from socket (8).
8. Remove screw (9), lockwasher (10), clamp (11) with cable (12), power cable (6), ground lead (13), two ground leads (14), capacitor bracket (15), and lockwasher (16) from weldnut (17). Discard lockwashers.



**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

0919 00

9. Remove two screws (18), washers (19), clamps (20), and power cable (6) from vehicle.



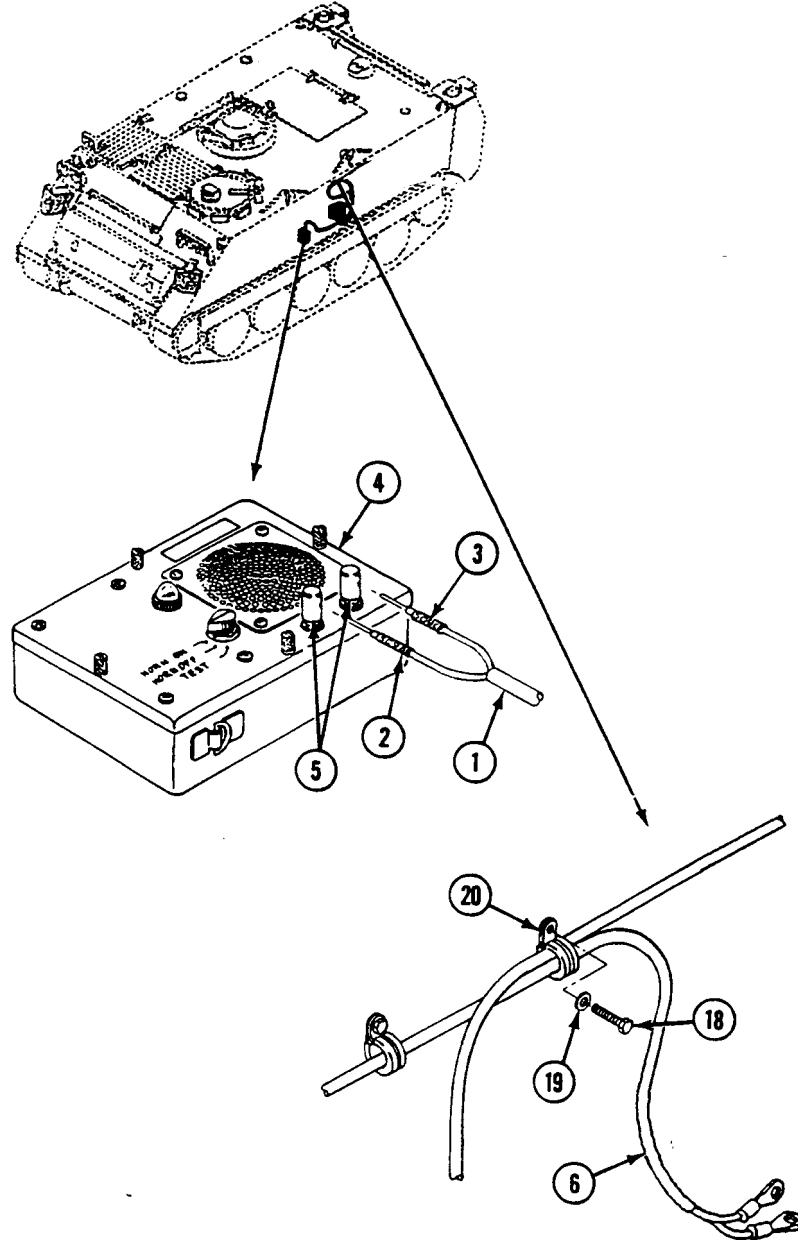
INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

1. Check leads for continuity TM 3-6665-274-20.

**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

0919 00

2. Check alarm cable (1) and power cable (6) for damage.



REPAIR OR REPLACEMENT

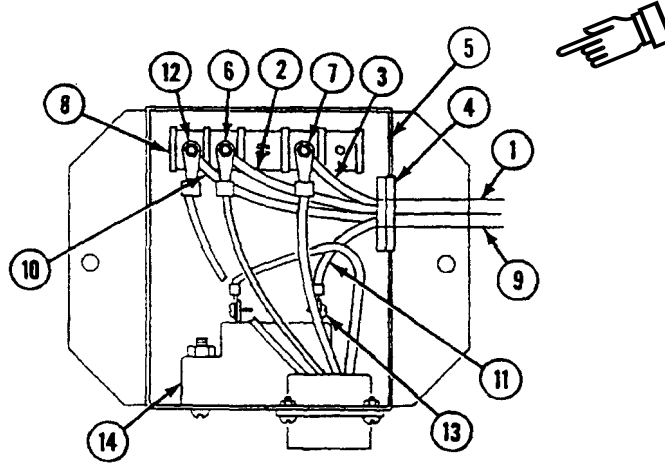
1. Replace damaged terminals and connectors as required.

**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

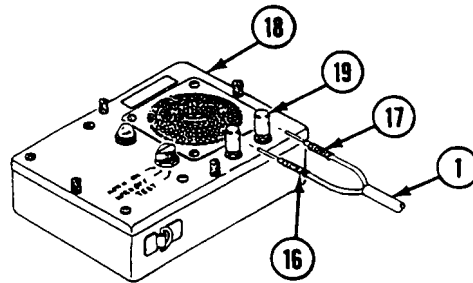
0919 00

INSTALLATION

1. Route alarm cable (1) lead 509B (2) and lead 509C (3) through grommet (4) in box (5).
2. Connect lead 509B (2) to terminal (6), and lead 509C (3) to terminal (7) on terminal board (8).
3. Route power cable (9) lead 7B NEG (10) and lead 6B POS (11) through grommet (4) on box (5).
4. Connect lead 7B NEG (10) to terminal (12) on terminal board (8), and lead 6B POS (11) to terminal (13) on circuit breaker (14).



5. Route alarm cable (1) over radio brackets (15). Connect alarm cable (1) lead 509B (16) and lead 509C (17) to M42 Chemical Alarm Unit (18) terminals (19).

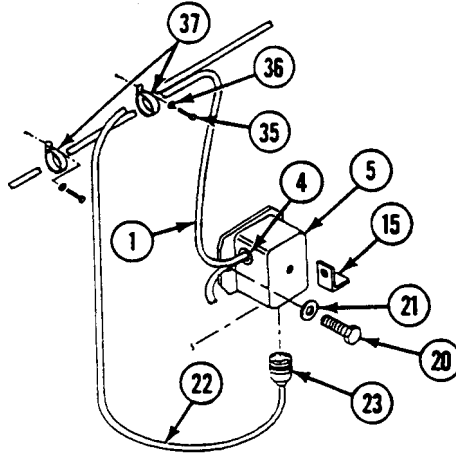


6. Install two screws (20), washers (21) and junction box (5) to hull.

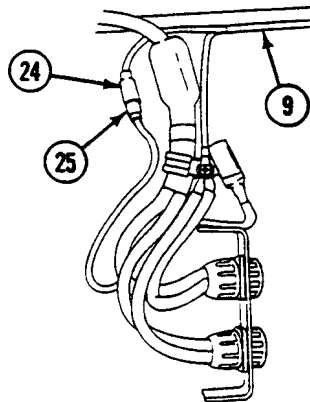
**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

0919 00

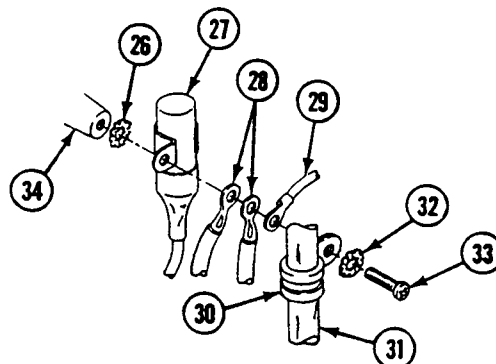
7. Connect wiring harness (22) plug (23) to jack on bottom of junction box (5).



8. Connect power cable (9) plug 6B POS (24) to socket (25).



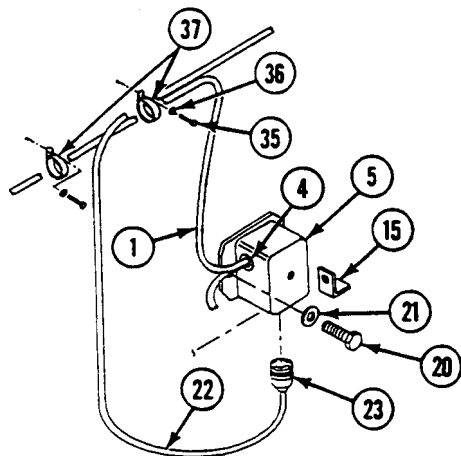
9. Install new lockwasher (26), capacitor bracket (27), two ground leads (28), power cable (9), ground lead (29), clamp (30) with cable (31), new lockwasher (32) and screw (33) on weldnut (34).



**REPLACE CHEMICAL ALARM JUNCTION BOX/POWER CABLE/ALARM CABLE
(M113A3 ONLY) — Continued**

0919 00

10. Install two screws (35), washers (36), and clamps (37) with cable (1) and wiring harness (22) on hull.

**FOLLOW-THROUGH STEPS**

1. Connect battery ground strap (WP 0919 00).

END OF TASK

REPAIR CHEMICAL ALARM JUNCTION BOX (M113A3 ONLY)

0920 00

THIS WORK PACKAGE COVERS:

Removal (page 0920 00-1).
 Installation (page 0920 00-3).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit WP 0926 00, Item 65

Equipment Condition

Junction box removed (WP 0919 00)

Materials/Parts

Grommet
 Locknut (3)
 Locknut (4)

REMOVAL

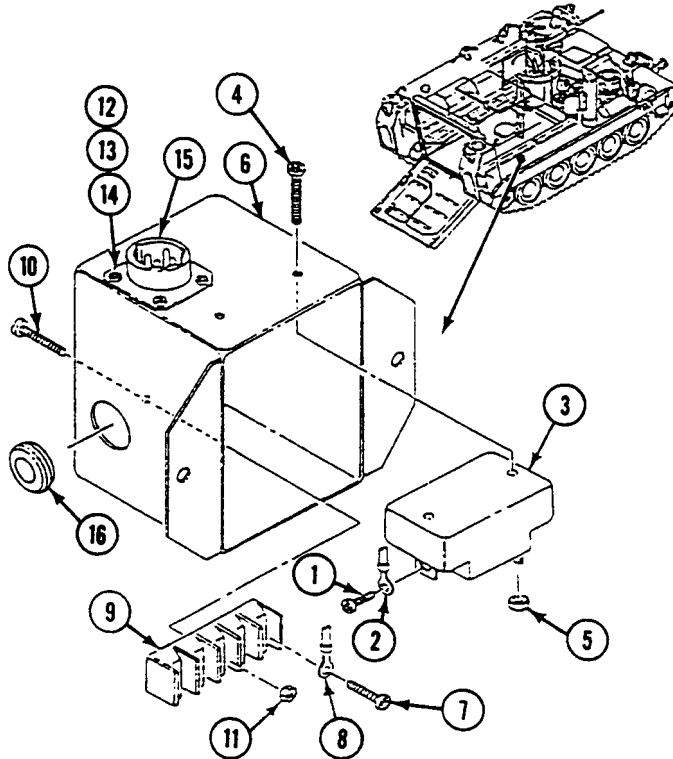
1. Remove screw (1) and lead (2) from circuit breaker (3).
2. Remove two screws (4), locknuts (5), and circuit breaker (3) from junction box (6). Discard locknuts.

NOTE

Tag all leads before disconnecting.

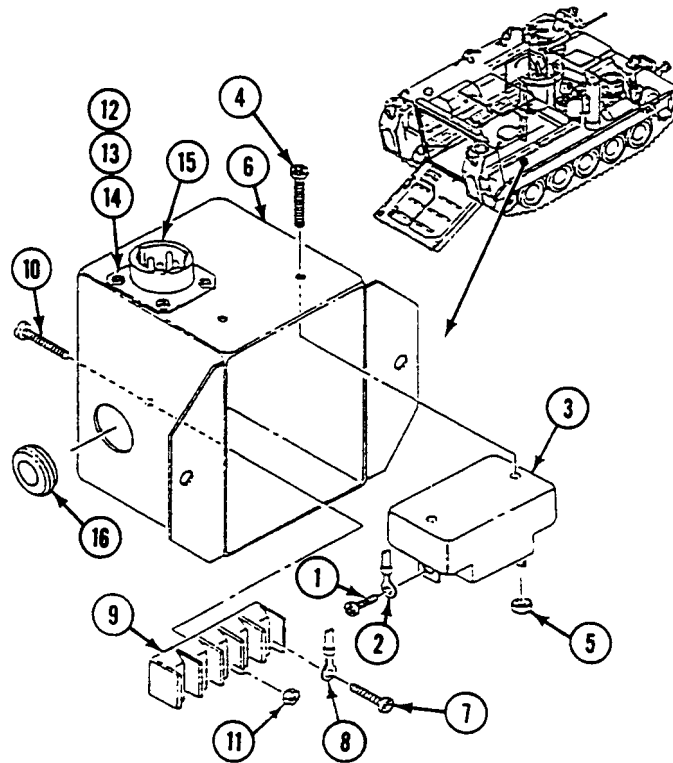
3. Remove three screws (7) and three leads (8) from terminal board (9).

4. Remove screw (10), locknut (11), and terminal board (9) from junction box (6). Discard locknut.
5. Remove four screws (12), washers (13), locknuts (14), and wiring harness (15). Inspect leads for damage and check for continuity. Discard locknuts.
6. Remove and discard grommet (16).



INSTALLATION

1. Install wiring harness (15) in junction box (6) with four washers (13), screws (12) and new locknuts (14).
2. Install circuit breaker (3) in junction box (6) with two screws (4) and new locknuts (5).
3. Install lead (2) on circuit breaker (3) with screw (1).
4. Install terminal board (9) in junction box (6) with screw (10) and new locknut (11).
5. Install three leads (8) on terminal board (9) with three screws (7).
6. Install new grommet (16).

**FOLLOW-THROUGH STEPS**

1. Install junction box (WP 0919 00).

END OF TASK

**REPLACE/REPAIR CHEMICAL ALARM SPARE BATTERY BRACKET
(M113A3 ONLY)**

0921 00

THIS WORK PACKAGE COVERS:

Removal (page 0921 00-1).
Installation (page 0921 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Tools and Special Tools

General Mechanic's Tool Kit WP 0926 00, Item 65

References

See your -10

Materials/Parts

Adhesive WP 0928 00, Item 4
Pad

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
Ramp lowered (see your -10)

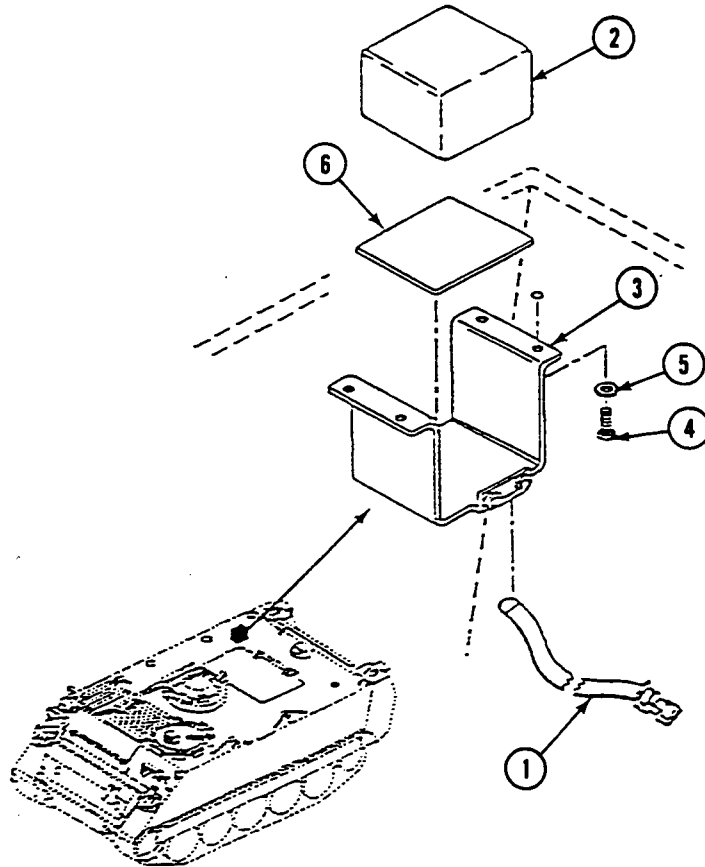
REMOVAL

1. Remove strap (1) and battery (2) from bracket (3).

REPLACE/REPAIR CHEMICAL ALARM SPARE BATTERY BRACKET (M113A3 ONLY) —
Continued

0921 00

2. Remove four screws (4), washers (5), and battery bracket from vehicle top plate.

**REPAIR OR REPLACEMENT**

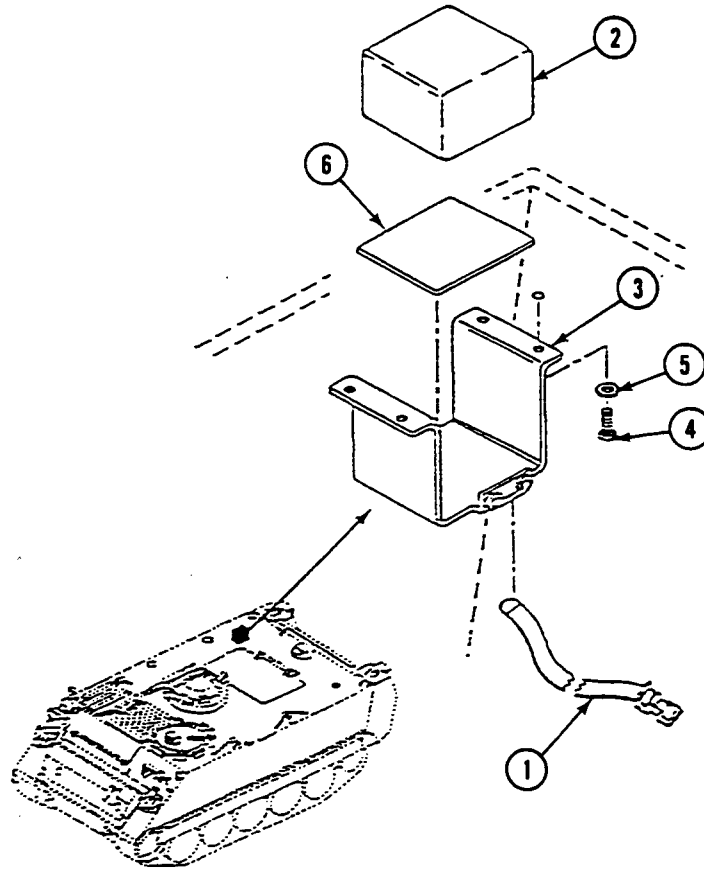
1. Inspect pad (6) for damage. If pad is damaged, remove pad.
2. Apply thin coat of adhesive to bottom of pad (6) and to mating surface of bracket (3). Allow 10 to 20 minutes of drying time. Press surfaces together firmly.

REPLACE/REPAIR CHEMICAL ALARM SPARE BATTERY BRACKET (M113A3 ONLY) —
Continued

0921 00

INSTALLATION

1. Install bracket (3) to vehicle top plate with four screws (4), and washers (5).
2. Place battery (2) on bracket (3) and secure with strap (1).

**FOLLOW-THROUGH STEPS**

1. Start engine (see your - 10).
2. Raise and lock ramp (see your -10).
3. Stop engine (see your - 10).

END OF TASK

REPLACE CHEMICAL ALARM REFILL TRAY BRACKET (M113A3 ONLY)

0922 00

THIS WORK PACKAGE COVERS:

Removal (page 0922 00-1).
 Installation (page 0922 00-2).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit WP 0926 00, Item 65

Equipment Condition

Engine stopped (see your -10)

Materials/Parts

Locknuts (2)

Carrier blocked (see your -10)

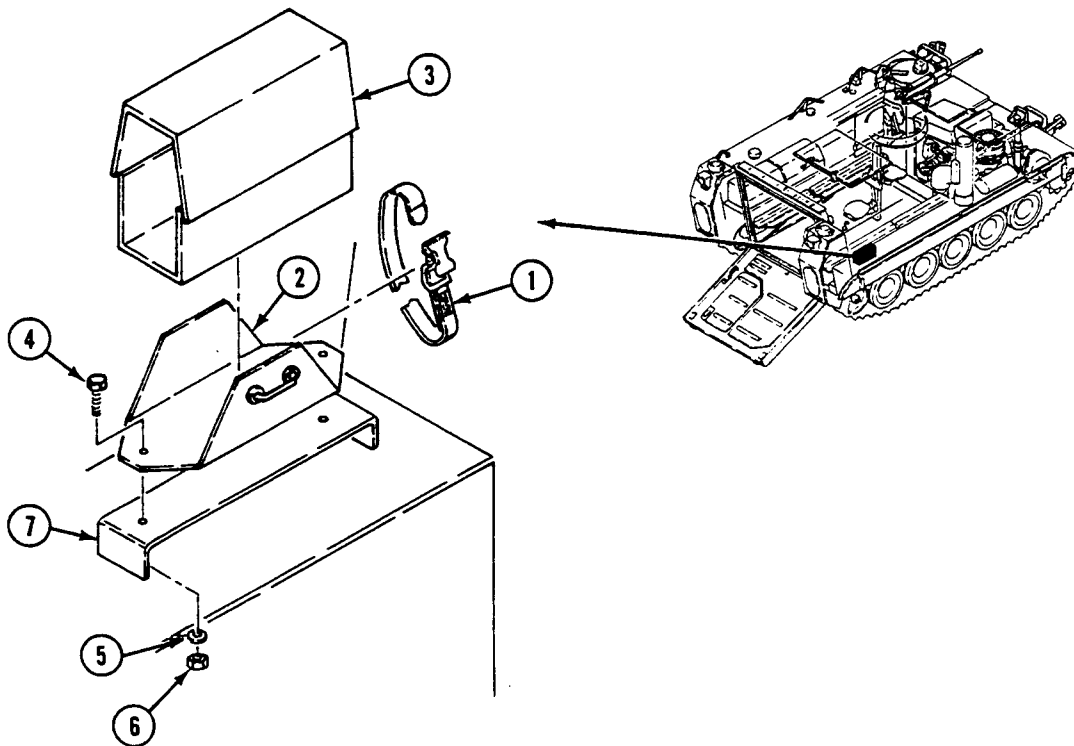
Personnel Required

Unit Mechanic

Ramp lowered (see your -10)

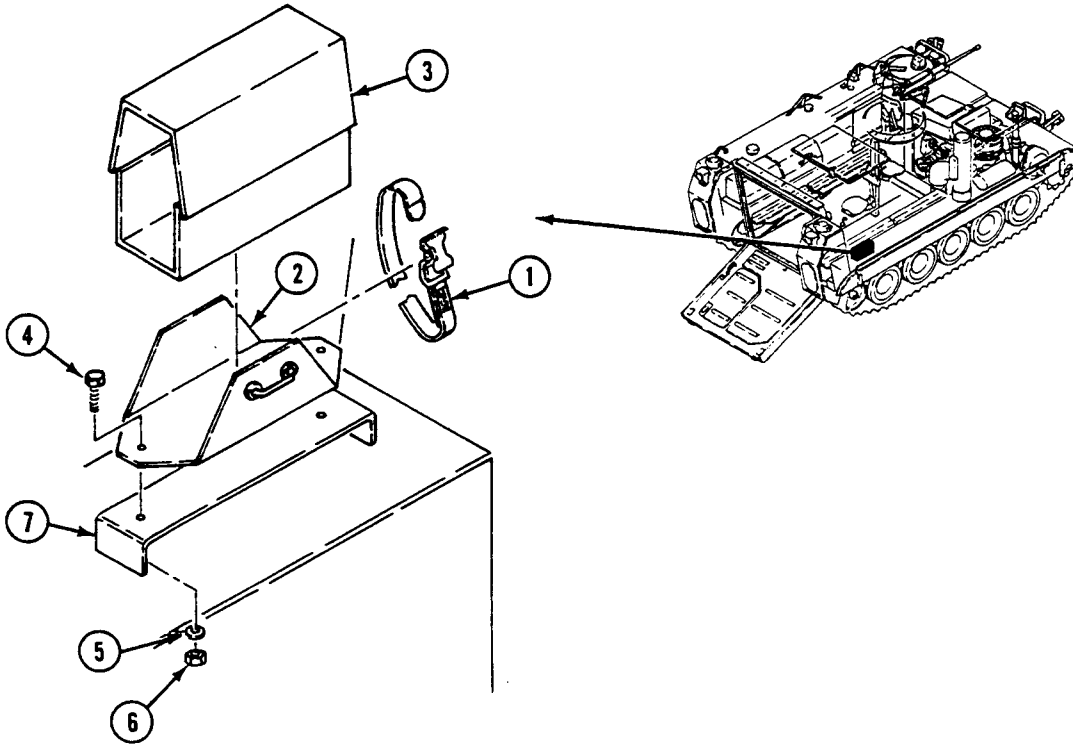
REMOVAL

1. Remove strap (1) from refill tray (2) and remove refill unit (3).
2. Remove two screws (4), washers (5), locknuts (6), and refill tray (2) from bracket (7). Discard locknuts.



INSTALLATION

1. Install refill tray (2) on bracket (7) with two screws (4), washers (5), and new locknuts (6).
2. Place refill unit (3) on refill tray (2) and secure with strap (1).

**FOLLOW-THROUGH STEPS**

1. Start engine (see your -10).
2. Raise and lock ramp (see your -10).
3. Stop engine (see your -10).

END OF TASK

**REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING
HARNESSES (M113A3 ONLY)**

0923 00

THIS WORK PACKAGE COVERS:

- Removal (page 0923 00-1).
- Inspection (page 0923 00-4).
- Repair (page 0923 00-4).
- Installation (page 0923 00-4).

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

- General Mechanic's Tool Kit WP 0926 00, Item 65
- Multimeter WP 0926 00, Item 30

Equipment Condition

Materials/Parts

Locknut (4)

Engine stopped (see your -10)

Personnel Required

Unit Mechanic
Helper (H)

Carrier blocked (see your -10)

Ramp lowered (see your -10)

Battery ground strap disconnected (WP 0337 00)

REMOVAL

1. Remove four screws (1), washers (2), and bracket (3) from vehicle top plate. Re-install four screws (1) and washers (2) in top plate holes to protect threads.

NOTE

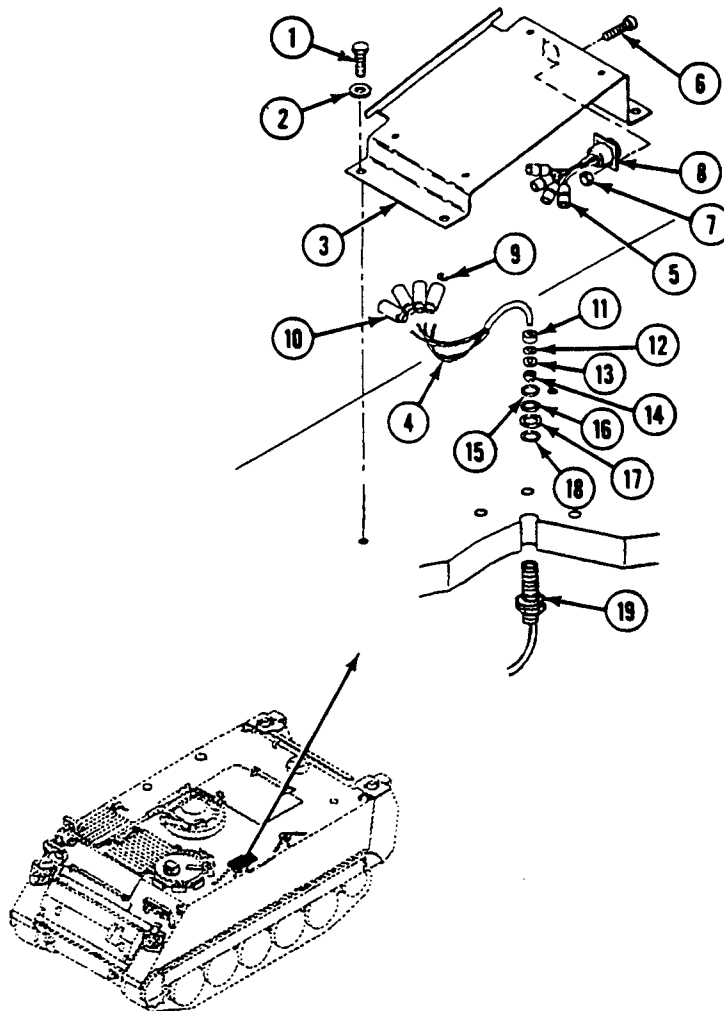
Tag leads before disconnecting.

2. Disconnect four leads (4) from leads (5).

REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSSES (M113A3 ONLY) — Continued

0923 00

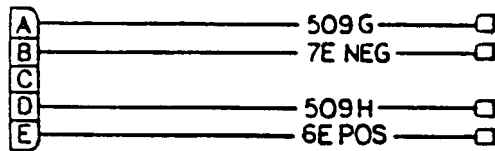
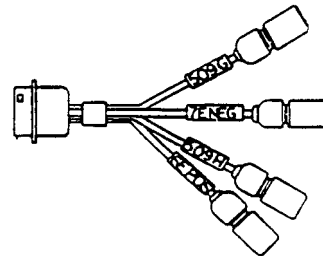
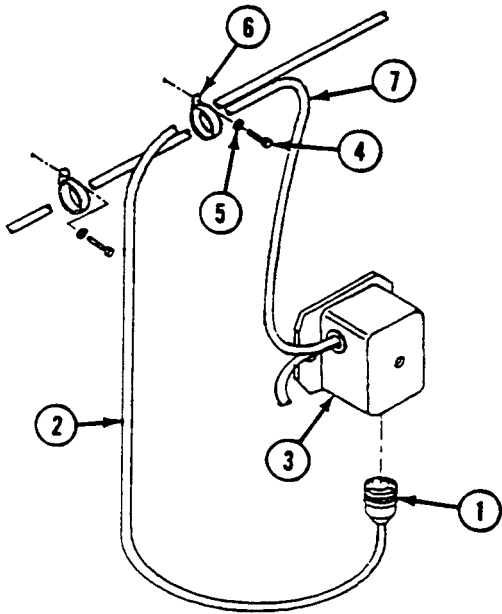
3. Remove four screws (6), locknuts (7), and wiring harness (8) from bracket (3). Discard locknuts.
4. Remove four C-clip retainers (9) and backshells (10) from leads (4). Save retainers.
5. Remove coupling nut (11), spring tension washer (12), retainer (13), bushing (14), nut (15), lockwasher (16), flat washer (17), and insulator washer (18) from harness (19).
6. Push harness (19) through hole in top plate and re-install insulator washer (18), flat washer (17), lockwasher (16), nut (15), bushing (14), retainer (13), spring tension washer (12), and coupling nut (11) on harness (19).
7. Re-install four backshells (10) and C-clip retainers (9) on leads (4).



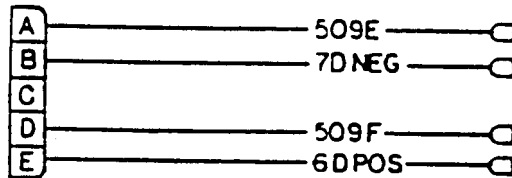
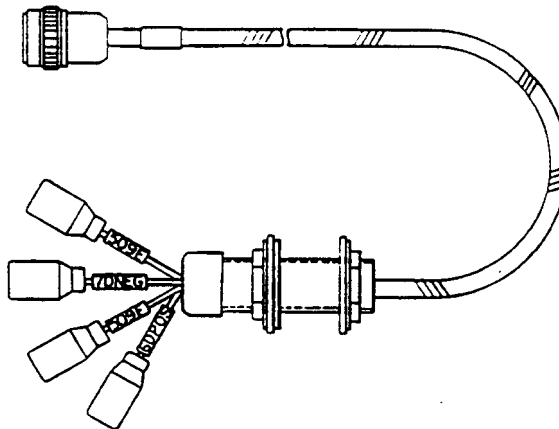
REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSSES (M113A3 ONLY) — Continued

0923 00

8. Remove connector (1) on wiring harness (2) from jack on bottom of junction box (3).
9. Remove screws (4), washers (5), and clamps (6) with cable (7) and wiring harness (2) from hull. Remove wiring harness (2) from clamp (6).



WIRING DIAGRAM



WIRING DIAGRAM

REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSSES (M113A3 ONLY) — Continued

0923 00

INSPECTION-ACCEPTANCE AND REJECTION CRITERIA

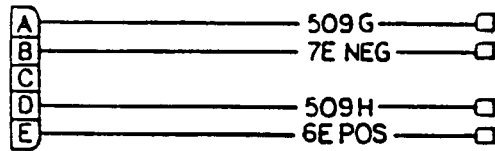
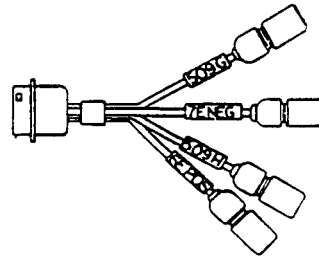
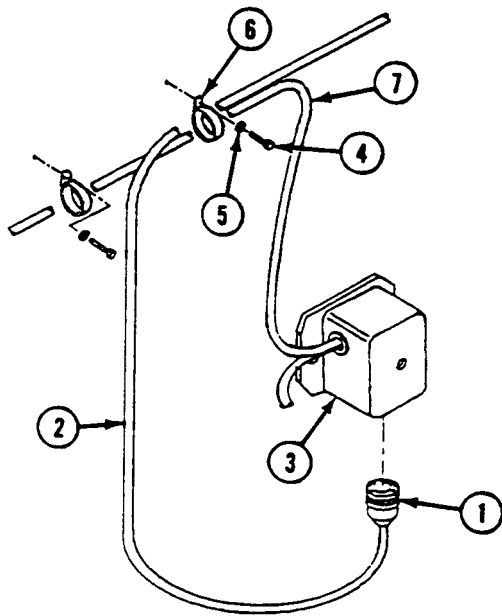
1. Check leads for continuity.
2. Inspect harnesses for damage.
3. Check multiple pin connector for damage. If damaged, notify supervisor.

REPAIR OR REPLACEMENT

1. Repair damaged single pin connectors (WP 0382 00).

INSTALLATION

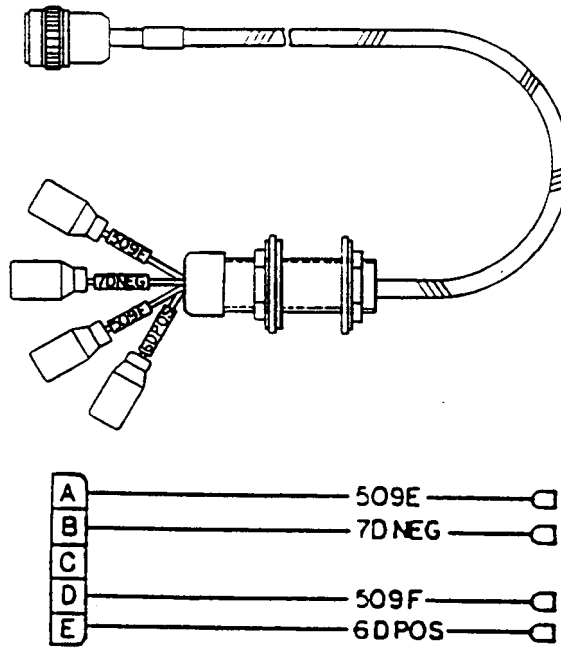
1. Route harness (2) and cable (7) through clamps (6). Secure to hull with washers (5) and screws (4).
2. Attach connector (1) on wiring harness (2) to jack on bottom of junction box (6).



WIRING DIAGRAM

REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSSES (M113A3 ONLY) — Continued

0923 00



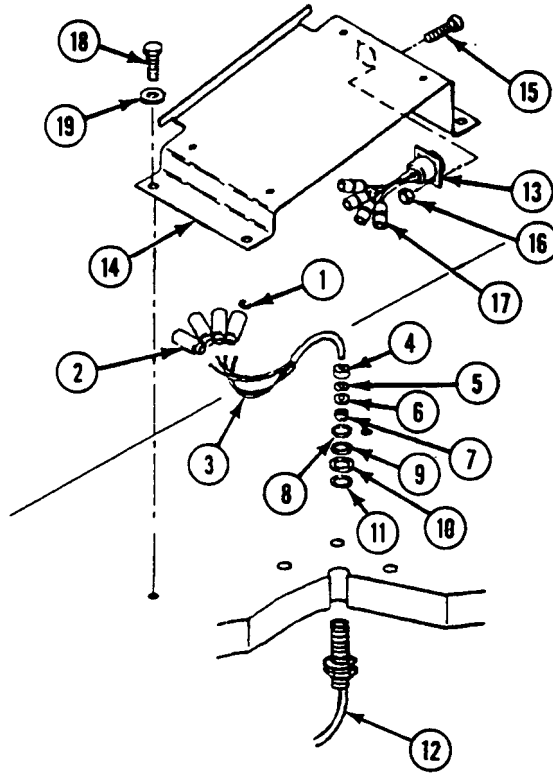
WIRING DIAGRAM

3. Remove four C-clip retainers (1) and backshells (2) from four leads (3).
4. Remove coupling nut (4), spring tension washer (5), retainer (6), bushing (7), nut (8), lockwasher (9), flat washer (10) and insulator washer (11) from harness (12).

REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSSES (M113A3 ONLY) — Continued

0923 00

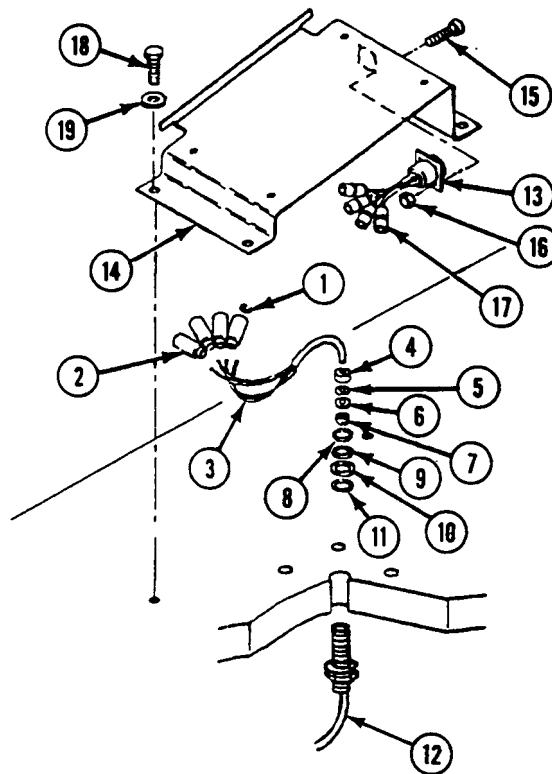
5. Insert harness (12) through hole in vehicle top plate. Have helper assist.



REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSSES (M113A3 ONLY) — Continued

0923 00

6. Install insulator washer (11), flat washer (10), lockwasher (9), nut (8), bushing (7), retainer (6), spring tension washer (5) and coupling nut (4) on harness (12).
7. Install four backshells (2) and C-clip retainers (1) on leads (3).
8. Attach wiring harness (13) to bracket (14) with four screws (15) and new locknuts (16).
9. Attach four leads (3) to leads (17) as follows:
 - 509E to 509G
 - 509F to 509H
 - 6D POS to 6E POS
 - 7D NEG to 7E NEG
10. Install bracket (14) on vehicle with four screws (18) and washers (19).



FOLLOW-THROUGH STEPS

1. Connect battery ground strap (WP 0337 00).
2. Start engine (see your -10).
3. Raise and lock ramp (see your -10).
4. Stop engine (see your -10).

END OF TASK

CHAPTER 31

UNIT SUPPORTING INFORMATION

WORK PACKAGE INDEX

<u>Title</u>	<u>Sequence No.</u>
REFERENCES.....	0924 00
MAINTENANCE ALLOCATION CHART (MAC).....	0925 00
COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES LIST.....	0926 00
FABRICATED TOOLS.....	0927 00
EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST.....	0928 00

REFERENCES

0924 00

SCOPE

This appendix lists all technical manuals, lubrication orders, miscellaneous publications, and forms referenced in this manual.

TECHNICAL MANUALS

- Destruction of Conventional Ammunition and Improved Conventional Munitions (ICM) to Prevent Enemy Use.....TM 43-0002-33
- Inspection, Care, and Maintenance of Antifriction Bearings.....TM 9-214
- Interactive Electronic Technical Manual (IETM) for Operating Instructions Organization/Direct Support/General Support Maintenance, and Repair Parts List for Test Set, Electronic Systems, AN/PSM-95 and Test Set, Electronic System AN/PSM-95A.....TM 9-6625-2301-14&P
- Operator and Maintenance Manual for Defense Advanced GPS Receiver (DAGR) Satellite Signals Navigation Set AN/PSN-13 (NSN 5825-01-516-8038 and AN/PSN-13A (NSN 5825-01-526-4783).....TM 11-5820-1172-13
- Operations and Maintenance Manual for Satellite Signals Navigation Sets AN/PSN-11 (NSN 5825-01-374-6643) and AN/PSN-11(V)1 (5825-01-395-3513)TM 11-5825-291-13
- Operator, Organizational, Direct Support, General Support, and Depot Maintenance Manual (Including Repair Parts and Special Tools List) for Mast, AB-903/G (NSN 5965-00-933-2197).....TM 11-5985-263-15
- Operator, Organizational, DS and GS Maintenance Manual; Standards for Inspection and Classification of Tracks, Track Components and Solid-Rubber Tires.....TM 9-2530-200-24
- Operator, Organizational, DS, GS, and Depot Maintenance Manual: Welding Set, Arc, Inert-Gas Shielded; Plastic or Metal-Lined Gun; for 3/64-Inch Wire; DC, 115 V (Westinghouse Model SA-135) (FSN 3431-879-9709).....TM 5-3431-200-15
- Operator, Unit, and Direct Support Maintenance Manual with Repair Parts and Special Tools List, 5KW, 28Vdc Auxiliary Power Unit.....TM 9-6115-664-13&P
- Operator's and Organizational, and Field Maintenance Manual for Generator Set, Gasoline Engine (6115-00-699-6248) Composed of: Generator (Delco Model GMV 85A5) and Engine (Detroit Diesel Model A41-2), Generator Set, Engine Driven, 4.2KW, 150 amp, 28Vdc (Model DC 4.2 Ord/28) (Y115-857-1297) Composed of: Starter (Military Standard Model 4A032-1).....TM 5-6115-596-14
- Operator's and Organizational Maintenance Manual (Including Repair Parts and Special Tools List) for M1068 Standardized Integrated Command Post System.....TM 11-7010-256-12&P
- Operator's and Organizational Maintenance Manual (Including Repair Parts and Special Tools List) Generator Set, Smoke, Mechanical: Pulse Jet M157.....TM 3-1040-279-12&P
- Operator's and Organizational Maintenance Manual Radio Sets, AN/VRC-50 (5820-00-273-7487), AN/VRC-64 (5820-00-273-7485), AN/GRC-125 (5820-00-223-7411), ANC/GRC-160 (5820-00-223-7473), and Amplifier Power Supply Groups OA-5633/GRC and 3336A/GRC (5820-00-073-3383).....TM 11-5820-498-12
- Operator's and Organizational Maintenance Manual; Radio Set AN/PRC-77.....TM 11-5820-667-12
- Operator's and Organizational Maintenance Manual; Suppressor, Electrical Transient, MX-7778/GRC.....TM 11-5915-223-12
- Operator's Manual for Carriers M113A3, M577A3, M1059A3, M1064A3, M1068A3, and M58.....TM 9-2350-277-10

REFERENCES — Continued

0924 00

- Operator's Manual for Generator Set, Smoke, Mechanical: Pulse Jet M157A2.....TM 3-1040-283-10
- Operator's Manual for Generator, Smoke, Mechanical: Mechanized Smoke Obscurant System, M58.....TM 3-1040-285-10
- Operator's Manual for Mask, Chemical-Biological: Aircraft, ABC-M24 and Accessories, and Mask, Chemical-Biological, Tank, M25A1 and Accessories.....TM 3-4240-280-10
- Operator's Manual for Mortar Fire Control System, M95 (NSN 1230-01-503-7784) (EIC: 3QT) (With Version 3 Software).....TM 9-1220-248-10
- Operator's Manual for Mortar Fire Control System, M96 (NSN 1230-01-503-7783).....TM 9-1220-249-10
- Operator's Manual for Mortar, 120MM: Towed M120 (NSN 1015-01-226-1672) (EIC: 4SL) and Mortar, 120MM: Carrier-Mounted M121 (1015-01-292-3801)TM 9-1015-250-10
- Operator's Manual for Tester, Airflow, Gas-Particulate Filter Unit: M39.....TM 3-6680-316-10
- Operator's, Organizational, Direct Support and General Support Maintenance Manual for Antenna, AS-1729/VRC (NSN 5985-00-985-9024).....TM 11-5985-262-14
- Operator's, Unit, and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Modular Command Post System (MCPS).....TM 10-5410-229-13&P
Superseded by
TM 10-8340-243-13&P
- Operator's and Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Driver's Vision Enhancer (DVE) AN/VAS-5(V)3 (NSN 5855-01-450-8108) for M58 Smoke Generator; AN/VAS-5A(V)3 (NSN 5855-01-475-9443) for M58 Smoke Generator; AN/VAS-5A(V)4 (NSN 5855-01-475-9446) for M1A1 Abrams Main Battle Tank; AN/VAS-5A(V)5 (NSN 5855-01-475-9445) for Light Armored Vehicle; AN/VAS-5A(V)6 (NSN 5855-01-475-9442) for Assault Amphibious Vehicle; AN/VAS-5A(V)7 (NSN 5855-01-476-0941) for Light Armored Vehicle; AN/VAS-5A(V)8 (NSN 5855-01-499-3576) for M88A2 Tracked Recovery Vehicle; AN/VAS-5A(V)9 (NSN 5855-01-509-3413) for M60A1 Armored Vehicle Launched Bridge; AN/VAS-5(V)10 (NSN 5855-01-504-6078) for Inerim Armored Vehicle Stryker; AN/VAS-5A(V)10 (NSN 5855-01-504-6077) for Inerim Armored Vehicle Stryker.....TM 11-5855-311-12&P-1
(To be released at a later date)
- Organizational and Direct Support Maintenance Repair Parts and Special Tools Lists (Including Depot Maintenance Repair Parts and Special Tools) for Viewers, Driver's Night Vision, AN/VVS-2(V)1 (NSN 5855-00-629-5278), AN/VVS-2(V)2 (5855-01-057-1880), AN/VVS-2(V)3 (5855-01-105-7793), AN/VVS-2(V)1A (5855-01-096-0871), and AN/VVS-2(V)2A (5855-01-096-0872).....TM 11-5855-249-23&P
- Organizational, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for Heater, Vehicular Compartment (NSN 2540-01-396-2826) Model A-20.....TM 9-2540-207-14&P
- Organizational, Direct Support, and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for: Heaters, Vehicular Compartment.....TM 9-2540-205-24&P
- Organizational Maintenance Repair Parts and Special Tools Lists: Welding Set, Arc, Inert-Gas Shielded; Plastic or Metal-Lined Gun; for 3/64-inch Wire; DC, 115V (Westinghouse Model SA-135) (FSN 3431-879-9709).....TM 5-3431-200-20P

REFERENCES — Continued

0924 00

Organizational Maintenance Manual (Including Repair Parts and Special Tools Lists) for Launcher, Grenade, Smoke: Screening, RP, M243 (1040-01-059-0560), Launcher, Grenade, Smoke: Screening, RP, M257 (1040-01-070-1213), and Launcher, Grenade, Smoke: Screening, RP, M259 (2040-01-107-7501).....TM 9-1040-267-20&P

Organizational Maintenance Manual (Including Repair Parts and Special Tools Lists) Mounting Kit, Chemical Agent Automatic Alarm: Low Profile, M182 (FSN 6665-110-9492) and Mounting Kit, Chemical Agent Automatic Alarm: High Profile, M228 (6665-859-2212) for Alarm, Chemical Agent, Automatic: Portable, for Truck, 2-1/2 Ton, M13 Portable, for Truck, 3/4 Ton, M12 Portable, for Truck, Utility, 1/4 Ton, M11 Portable, for Full-tracked Armored Personnel Carriers and Recovery Vehicles, M14 Portable, for Carrier, Command and Reconnaissance Armored, M15 Portable, w/Power Supply for Truck, 2-1/2 Ton, M18 Portable, w/Power Supply for Truck, 3/4 Ton, M17 Portable, w/Power Supply for Truck, Utility, 1/4 Ton, M16TM 3-6665-273-20
 Obsolete Publication

Organizational Maintenance Manual: Installation Kits for Alarm Chemical Agent, Automatic Portable.....TM 3-6665-274-20
 Obsolete Publication

Painting Instructions for Field Use.....TM 43-0139

Preparation and Inspection of Industrial Equipment for Storage or Shipment.....TM 38-260

Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use (US Army Tank-automotive and Armaments Command).....TM 750-244-6

SINGGARS Icom Ground Radios Used With Automated Net Control Device (ANCD) AN/CYZ-10 and Precision Lightweight GPS Receiver (PLGR) AN/PSN-11 Net Control Station (NCS) Pocket Guide Radio Sets Manpack Radio (AN/PRC-119A/D/F) (NSN: N/A) (EIC: N/A) Vehicular Radios (AN/VRC-87A/D/F thru AN/VRC-92A/D/F).....TM 11-5820-890-10-7

Storage Batteries, Lead-Acid Type.....TM 9-6140-200-14

Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) (Including Depot Repair Parts) for Mortar, 120-MM: Towed M120 (NSN 1015-01-226-1672) Mortar; 120-MM: Carrier-Mounted, M121 (1015-011-292-3801) Trailer, Mortar, 120 MM: M1100 (1015-01-227-1736).....TM 9-1015-250-23&P

Unit and Intermediate Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for 107MM Mortar Turntable and Mount (10885903), 81MM Mortar Turntable and Mount (10885812), and 81MM Mortar Bipod Assembly (10918100)TM 9-1015-232-23&P

Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Generator Set, Smoke, Mechanical: Pulse Jet, M157A2.....TM 3-1040-283-20&P

Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Mask, Chemical-Biological: Aircraft, ABC-M24 (NSN 4240-00-808-8799) Small; (4240-00-776-4384) Medium; (4240-00-808-8798) Large; and Mask Chemical-Biological: Tank, M25A1 (4240-00-994-8751) Small; (4240-00-994-8750) Medium; (4240-00-994-8752) Large.....TM 3-4240-280-20&P

Unit Maintenance Manual for Generator, Smoke, Mechanical: Mechanized Smoke Obscurant System, M58.....TM 3-1040-285-20

REFERENCES — Continued

0924 00

Unit Maintenance Repair Parts and Special Tools List for Radio Sets AN/PRC-119 (NSN 5820-01-151-9915) (EIC: L2A) AN/PRC-119A (5820-01-267-9482) (EIC: L2Q) AN/PRC-119D (5820-01-421-0801) (EIC: GC9) AN/VRC-87 (5820-01-151-9916) (EIC: L2T) AN/VRC-87A (5820-01-267-9480) (EIC: L22) AN/VRC-87D (5820-01-351-5259) (EIC: GAR) AN/VRC-88 (5820-01-151-9917) (EIC: L2U) AN/VRC-88A (5820-01-267-9481) (EIC: L23) AN/VRC-88D (5820-01-352-1694) (EIC: GAS) AN/VRC-89 (5820-01-151-9918) (EIC: L2V) AN/VRC-89A (5820-01-267-9479) (EIC: L24) AN/VRC-89D (5820-01-420-6619) (EIC: GD8) AN/VRC-90 (5820-01-151-9919) (EIC: L2W) AN/VRC-90A (5820-01-268-5105) (EIC: L25) AN/VRC-90D (5820-01-420-6618) (EIC: GD) AN/VRC-91 (5820-01-151-9920) (EIC: L2X) AN/VRC-91A (5820-01-267-9478) (EIC: L26) AN/VRC-91D (5820-01-420-6621) (EIC: GDG) AN/VRC-92 (5820-01-151-9921) (EIC: L2Y) AN/VRC-92A (5820-01-267-9477) (EIC: L27) and AN/VRC-92D (5820-01-421-2605) (EIC: GDH).....TM 11-5820-890-20P-1

Unit and Direct Support Maintenance Manual for 120-MM Mortar, Towed, M120 Mortar; Carrier-Mounted, M121 Mortar.....TM 9-1015-250-23

Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Mortar Fire Control System, M95 (NSN 1230-01-503-7784) (EIC: 3QT) and Mortar Fire Control System, M96 (NSN 1230-01-503-7783)TM 9-1220-248-23&P

Unit Maintenance, Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools List) for Carriers: M113A3, M577A3, M1059A3, M1064A3, M1068A3, and M58.....TM 9-2350-277-24P

Use and Care of Hand Tools and Measuring Tools.....TM 9-243

LUBRICATION ORDERS

Lubrication Order for Carriers M113A3, M577A3, M1059A3, M1064A3, M1068A3, and M58.....LO 9-2350-277-12

OTHER PUBLICATIONS

Army Oil Analysis Program (AOAP).....TB 43-0211

Basic Cold Weather Manual.....FM 31-70

WD CARC Spot PaintingTB 43-0242

Carriers, Command Post, Light Tracked: M577, M577A1, M577A2, and M577A3; and Carriers, Command Post System Standardized Integrated: M1068 and M1068A3; Processing for Storage and Shipment of.....ATPD 2227

Carriers, Personnel, Full-Tracked: Armored, M113A3; Mortars, Self-Propelled, 107MM, M106, M106A2, and M125A2, and 120MM, M1064; and Smoke Generator, M1059; Processing for Storage and Shipment of.....MIL-DTL-45360

Color, Marking, and Camouflage-Painting of Military Vehicles, Construction Equipment, and Materials-Handling Equipment.....TB 43-0209

Expendable Items (except Medical, Class V, Repair Parts and Heraldic Items).....CTA 50-970

First AidFM 4-25.11

General Repair of Tents, Canvas, and Webbing.....FM 10-16

Malfunctions Involving Ammunition and Explosives.....AR 75-1

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NBC Decontamination.....FM 3-5
 Superseded by FM 3-11.5

Operation and Maintenance of Ordnance Materiel in Cold Weather (0°F to -65°F).....FM 9-207

Operator’s Circular Welding Theory and Application.....TC 9-237

Soldier’s Manual of Common Tasks, Skill Level 2-4.....STP 21-24-SMCT

Soldier’s Manual of Common Tasks, Skill Level 2-4.....STP 21-1-SMCT

The Army Maintenance Management System (TAMMS).....DA Pam 738-750
 Superseded by DA Pam 750-8

Use of Antifreeze Solutions, Antifreeze Extender, Cleaning Compunds and Test Kit in Engine
 Cooling Systems.....TB 750-651

FORMS

Refer to DA Pam 25-30 for index of forms and to DA Pam 750-8 for explanation of use.

Equipment Control Record.....DA Form 2408-9

Equipment Inspection and Maintenance Worksheet.....DA Form 2404

Equipment Modification Record.....DA Form 2408-5

Maintenance Request.....DA Form 2407

Preventive Maintenance Schedule and Record.....DD Form 314

Processing and Deprocessing Record for Shipment, Storage, and Issue of Vehicles and Spare
 Engines.....DD Form 1397

Quality Deficiencies Report.....SF 368

Recommended Changes to Publications and Blank Forms.....DA Form 2028

Report of Discrepancy (ROD).....SF Form 364

Uncorrected Fault Record.....DA Form 2408-14

MAINTENANCE ALLOCATION CHART (MAC)**0925 00****GENERAL**

This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.

The Maintenance Allocation Chart (MAC) in Section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilities of the designated maintenance levels.

Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from Section II.

Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

The MAC for the mounts and turntables used on the M1064A3 for the M121, 4.7 inch, 120-mm mortar is in TM 9-1015-250-23&P. The MAC for the M157 Pulse Jet Generator set used in M1059A3 is in TM 3-1040-283-20&P. The MAC for the M1068A3 Common Hardware System (CHS) is covered in TM 11-7010-256-12&P. The MAC for the M1068A3 Modular Command Post System (MCPS) is covered in TM 10-8340-243-13&P. The MAC for Personnel Heaters is covered in TM 9-2540-205-24&P or TM 9-2540-207-14&P. The MAC for the turntable used in the M1064A3 is in TM 9-1015-232-23&P. The MAC for the Mechanical Smoke Obscurant System used in the M58 is in TM 3-1040-285-20. The MAC for the Mortar Fire Control System (MFCS) used in the M1064A3 and M577A3 is in TM 9-1220-248-23&P.

MAINTENANCE FUNCTIONS

Maintenance functions will be limited to and defined as follows:

- (1) *Inspect*. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel).
- (2) *Test*. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- (3) *Service*. Operations required periodically to keep an item in proper operating condition; i.e., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gasses.
- (4) *Adjust*. To maintain or regulate, within prescribed limits, by bringing into proper or exact position or by setting the operating characteristics to specified parameters.
- (5) *Align*. To adjust specified variable elements of an item to bring about optimum or desired performance.
- (6) *Calibrate*. To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- (7) *Remove/Install*. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- (8) *Replace*. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and is shown as the 3rd position code of the SMR code.
- (9) *Repair*. The application of maintenance services, including fault location/troubleshooting, removal/installation, and disassembly/assembly procedures, and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.
- (10) *Overhaul*. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like-new condition.

- (11) *Rebuild*. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like-new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) considered in classifying Army equipment/components.

EXPLANATION OF COLUMNS IN THE MAC, SECTION II

- (1) *Column 1, Group Number*. Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly. End item group number shall be "00."
- (2) *Column 2, Component/Assembly*. Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.
- (3) *Column 3, Maintenance Function*. Column 3 lists the functions to be performed on the item listed in Column 2. For detailed explanation of these functions see MAINTENANCE FUNCTIONS (WP 0925 00-1).
- (4) *Column 4, Maintenance Level*. This column specifies the average total manhours required to do the job. For example, if it takes 2 people 5 hours to complete the job, the figure would be 10. This figure represents the time required to perform the job at the lowest indicated level of maintenance and restore the item to a serviceable condition. It includes disassembly, troubleshooting, quality assurance and assembly. The symbol designations for the various maintenance levels are as follows:
 - C — Operator or Crew Maintenance
 - O — Unit Maintenance
 - F — Direct Support Maintenance
 - H — General Support Maintenance
 - D — Depot Maintenance
- (5) *Column 5, Tools and Equipment*. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TMDE, and support equipment required to perform the designated function.
- (6) *Column 6, Remarks*. This column shall, when applicable, contain a letter code, in alphabetic order, which shall be keyed to the remarks contained in Section IV.

EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III

- (1) *Column 1, Reference Code*. The tool and test equipment reference code correlates with a code used in the MAC, Section II, column 5.
- (2) *Column 2, Maintenance Level*. The lowest level of maintenance authorized to use the tool or test equipment.
- (3) *Column 3, Nomenclature*. Name or identification of the tool or test equipment.
- (4) *Column 4, National Stock Number*. The National stock number of the tool or test equipment.
- (5) *Column 5, Tool Number*. The manufacturer's part number.

EXPLANATION OF COLUMNS IN REMARKS, SECTION IV

- (1) *Column 1, Reference Code*. The code recorded in column 6, Section II.
- (2) *Remarks*. This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

Table 1. MAINTENANCE ALLOCATION CHART, SECTION II

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD			SUSTAINMENT			
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
---	M113A3	PMCS		33.5				3 44 78 79 80 81 82 83 84 85 86	
01	ENGINE							30	
0100	POWER PLANT ASSY	Adjust		.2				27 30 59	
		Remove/ Install		3.7				26 29 30 34 47 57	A
		Repair		1.3	.5			24 25 26 29 30 34 42 43 57 60 64	A
	ENGINE	Inspect		.1					
		Service		.3				30	J
		Adjust		.1					
		Remove/ Install			.5			26 27 29 30 34 47 57	
		Replace		1.2	6.5			24 30 43 56 61	
		Repair		.3				30 60 64	B
		Overhaul					50.0		
03	FUEL SYSTEM								
0302	ENGINE FUEL PUMP ASSY	Inspect		.1					
		Replace			.2				
		Repair		.2					
	PERSONNEL & COOLANT HEATER FUEL PUMP	Replace	.6					30	
		Service	.2					30	
0304	AIR CLNR INSTL AIR CLEANER ASSY	Service		.2				27 30	D
		Replace		5.6				27 30	
		Repair		4.3				30	D
0306	FUEL SYS INSTL	Service		.8				30	
		Repair		.3				27 30	
	TANK, FUEL, ENG	Replace		2.7				26 27 30 58	
		Repair			2.4	2.4		8 19 24 30	

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
0309	PRMRY FUEL FILTER	Service	.1						
		Replace		.1					
		Repair		.1					
	SEC FUEL FILTER	Service	.1						
		Replace		.1					
		Repair		.1					
0311	AIR BOX HEATER	Replace		.1					
		Repair		.1					
0312	FUEL CNTRL INSTL	Adjust		.8			30 42		
		Repair		.7	1.3		22 24 30 60		
04	EXHAUST SYSTEM								
0401	EXHAUST SYS INSTL JOINT, DBL FLEX	Repair		.5			26 27 30 34		
		Replace		.7			26 27 30 34		
		Repair		.8			26 27 30 34		
05	COOLING SYSTEM								
0501	RADIATOR ISNTL	Service	.3	.1			27 30 45	J	
		Repair		.9			26 27 29 30 34 43 57		
	RADIATOR, ENGINE COOLANT	Replace		1.0			15 26 27 30 34		
		Repair				4.0	28 31	J	
	TANK, AUX RAD	Replace		.6			26 27 30 34		
		Repair			1.4		28 31		
0504	COOLANT PUMP	Replace		.9			30 33 34 43 57		
0505	DR, VAR FAN, ALT	Replace		1.0			27 30		
		Repair				1.5	24 30		
	FAN AND DR INSTL	Inspect	.1						
		Adjust		.3			27 30		
		Repair		1.6			26 27 30 34		
		Service	.1	.5			27, 30	J	
	FAN ASSEMBLY	Replace		4.5			16 28 29 32 36		
		Repair				1.8	4.9 15 24 25 26 27 30 34		
		Replace				.8	30 24	H	
	FAN GEARBOX	Repair				2.2			

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
06	FAN SHAFT & BEARING	Replace		1.6				30	
		Repair			.4			30 34	
0601	ELECTRICAL SYSTEM								
0601	GENERATOR	Replace		1.0				27 30 60	
		Repair				3.0			F
0602	REGULATOR, GENERATOR	Adjust		.1				27 30 64	
0603	MOTOR, START 24V	Replace		1.0				30 60	
		Repair		1.2				27 30 60	
0607	ELECT INSTL	Remove/ Install		.2				30	
		Repair		.5	1.0			23 26 27 30 32 60 64	
	PANEL ASSY, INSTR	Replace		.7				2 30	C
		Repair		1.1				2 30 64	
	LAMP ASSEMBLY	Replace		.8				30 64	
		Repair		.4				30 64	
	LAMP ASSEMBLY	Replace		1.1				30 64	
		Repair		.5				30 64	
	LIGHT, WARNING	Replace		.6				30 64	
		Repair		.4				26 30 64	D
	PANEL ASSY, WIRING LIGHT	Replace		.1				30	
		Repair		.4	.6			16 24 64	
	LIGHT, WARNING	Replace		.6				30 64	
		Repair		.3				30	
	PANEL, MASTER SW	Replace		.3				30	
		Repair		.7				27 30 64	
	DISTRIB BOX ASSEMBLY	Replace		.8				30	
		Repair		1.7				30 64	
0608	TAILLIGHT, LEFT	Replace	.3					30	
		Repair		.2				30 64	C
	TAILLIGHT, RIGHT	Replace		.3				30	
		Repair		.2				30 64	C

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
0609	BLKOUT HEADLIGHT	Replace		.5				30 64	
		Repair		.4				30 64	
	BLKOUT HEADLAMP	Replace		.2				30	
		Repair		.6				30 64	
	SERVICE HEADLAMP	Replace		.2				30	
		Repair		.6				30 64	
	LAMP ASSY BLKOUT	Replace		.2				30	
		Repair		.4				30 64	
	LIGHT, DOME	Replace		.7				30	C
		Repair		.2				30	
0612	BATTERY, STORAGE	Service		.1	.4			42 60	L
		Replace		.6				27 30	L
		Repair				2.0		32	L
	BOX ASSY, BATTERY (M1064A3 LEFT SIDE)	Service		.3					
		Replace		.3					
	Repair		.2				30 63	C	
0613	WIRING HARNESS	Replace		.7				60	
	WIRING HARNESS	Replace		.3				30 64	
		Repair		.9	1.0			23 27 30 32 64 72	
	WIRING HARNESS	Replace		1.0				26 29 30 34 43 57 64	
		Repair		.8	2.0			14 22 27 30 32 60 64 72	
	WIRING HARNESS, HEADLIGHT	Replace		.7				30	
		Repair		.6				26 30 64	
	CABLE, SPEC PURP	Replace		1.5				30 60 64	
		Repair		1.8				26 60 64	
	WIRING HARNESS BRANCH	Replace		1.0				30	
		Repair		.3				26 30	
	WIRING HARNESS	Replace		.5				30 64	
		Repair		.5				26 30 64	
WIRING HARNESS, BATTERY	Replace		1.0				30		
	Repair		.4				26 30 42 60		

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE	
			FIELD		SUSTAINMENT					
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT			
			C	O	F	H	D			
	WIRING HARNESS, FORWARD	Replace			2.0			30		
		Repair		.8	1.0			23 26 30 32 64 72		
	WIRING HARNESS, BRANCH	Replace		.7				30 64		
		Repair		.5				26 30		
	WIRING HARNESS	Replace		3.1				27 64		
		Repair		.6	1.0			23 26 30 63 64 72		
	WIRING HARNESS, TRANSMISSION	Replace		.9				30 64		
		Repair		.9	.6			23 26 30 64		
	WIRING HARNESS SMOKE GRENADE	Replace		.5				30 64		
		Repair		.4				26 27 30		
	WIRING HARNESS	Replace		.4				30 64		
		Repair		.5				26 27 30		
	WIRING HARNESS, BRANCH	Replace		.9				30		
		Repair		1.1	1.4			14 26 27 30 64 8972		
	LEAD ASSEMBLY, UTILITY OUTLET (M577A3, M1068A3)	Replace		.3				30 63	C	
		Repair		.2					C	
	LEAD ASSEMBLY (M577A3, M1068A3)	Replace		.3				30 63		
	LEAD ASSEMBLY, MASTER SWITCH TO DOME LIGHT (M577A3, M1068A3)	Replace		.3				30 63		
		Repair		.2				30 63	C	
	LEAD ASSEMBLY, WIRE HARNESS TO DOME LIGHT (M1059A3)	Replace		.3				30 63		
		Repair		.2				30 63	C	
	RECEPTACLE, GENERATOR SET (M577A3, M1068A3)	Replace			1.2			24		
		Repair		.3				30 63		
	CABLE ASSY, W6 (M577A3, M1068A3)	Replace		.3	1.2			74		
		Repair		.5				74		
	CABLE ASSY, W7 (M577A3, M1068A3)	Replace		.3	1.2			24		
		Repair		.5				74		

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
07 0700	CABLE ASSY, W27 (M577A3, M1068A3)	Replace		.4	1.2			69 70 71 74	
		Repair		.3				30 63	
	TRANSMISSION								
	MOUNT, TRANSMISSION	Replace		.2				26 29 27 34 43 57	
		Repair				.8		26 29 27 34 43 57	
	TRANSMISSION	Service	.4	.1				30 42	G
		Adjust		.9				13 26 27 30	G
		Replace			1.9			24 30 56 57	
		Repair			67.1			26 29 30 34 42 43 57 64	G
		Overhaul					50.0		
0705	CONTROLLER, TRANS, ELECTRICAL	Replace		1.0				2 30 64	
		Repair		.7				30 64	
0708	TOW, START & CONTR	Adjust		.2				30	
		Repair		.4				26 30	
08	TRANSFER & FINAL DRIVE ASSEMBLIES								
0801	FINAL DRIVE	Service	.1						
		Replace		1.6				27 30 44	
		Repair		.5		11.5		3 30	
12	BRAKE ASSEMBLY								
1206	BRAKE INSTL	Inspect		.8				27 30 42	
		Adjust		.4				27 30	
		Repair		.8				1 27 30	
	LEVER ASSY PARKING	Replace		.5				30	
		Repair		.5				30	

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
13	WHEELS & TRACKS								
1301	SUSPENSION INSTL	Service	.1						
		Adjust	.1						
		Adjust		.7			9 10 11 12 20 21 24 26 27 30 39 44 47 50 52 61 62		
		Repair			.3				
	ROAD WHEEL SPT	Repair	2.3				27 30 39 47 50 51 52 53 62		
	HUB ASSEMBLY	Replace	2.0				27 30 35 36 50		
		Repair	.1				30		
	ARM SUPPORT	Replace	3.8				27 30 39 47 50 52 57 62		
		Repair	3.8				26 30 50 52		
	HUB ASSY	Replace	2.0				27 30 35 36 50		
		Repair	.1				30		
1303	SPT ASSY SPNSN	Repair	1.0				27 30 39 47 50 51 52 57 62		
	SPT ARM SPNSN	Repair	2.2				26 27 30 39 47 50 51 52 53 62		
	TRACK ADJUSTER	Replace	.9				27 30 44		
		Repair			1.1		24 30		
	IDLER ARM ASSY	Replace	1.0				27 30		
		Repair	1.9		1.0		30 35 51		
	ARM IDLER	Replace			.3		30		
		Repair			.2		30		
1305	TRACK ASSY LEFT	Remove/ Install	1.7				30 41 46 48		
		Repair	.5				27 30		
	TRACK ASSY RIGHT	Remove/ Install	1.7				30 41 46 48	I	
	TRACK SHOE	Replace	.6				27 30 46 48 49	I	
		Repair	.2				27 30		
1311	ROAD WHEEL	Replace	.6				27 30 50		
		Repair				.5	27 30 50		

MAINTENANCE ALLOCATION CHART (MAC) — Continued

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
14	STEERING								
1401	STEERING INST	Adjust		1.2			30		
		Repair		1.4			2 27 30 64		
	BRACKET BEARING STEERING	Service	.1						
		Replace		.5			30		
		Repair			.1		24 30		
	HOUSING, BEARING	Service	.1						
		Replace		.7			27 30		
		Repair			.1		6 7 16 18 24 30		
15	TOWING ATTACHMENTS								
1503	PINTLE ASSY, TOW	Replace		.2			30		
		Repair		.4			30		
	LOCK ASSY, PINTLE	Replace		.3			30		
		Repair		.5			30		
16	SPRINGS AND SHOCK ABSORBERS								
1604	SHOCK ABSORBER	Replace		.4			79 30 50 52		
		Repair			.5		24 30 54 55		
18	HULL								
	RELEASE ASSY	Adjust		.1			30		
	RAMP INST	Remove/ Install		.1			30		
		Repair		.5			30		
	RAMP ASSEMBLY	Adjust		.4					
		Replace					3.5 27 30	E	
		Repair		.1	.4		12 24 26 30 38		
	RAMP WELDMENT	Repair					.1		
	HINGE, RAMP, CENTER	Replace					1.0		
		Repair					.3		
	HINGE, RAMP	Replace					1.0		
		Repair					.3		

MAINTENANCE ALLOCATION CHART (MAC) — Continued

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE	
			FIELD		SUSTAINMENT					
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT			
			C	O	F	H	D			
1801	ACCESS DOOR, RAMP	Replace			1.9			30	E	
		Repair		.2				30		
	DOOR, HINGE	Replace			1.7			30		
		Repair			.1			24 30		
	HULL SUB-ASSY	Repair		.2	.4			8 19 22 24 26 27 30 34		
		Replace		.2						
		Repair		1.0				30		
	COVER, ACCESS, ENGINE	Replace			.1					
		Repair		.4				30		
	COVER, ENGINE COMPARTMENT	Replace		.2						
		Repair		1.0				30		
	COVER, ENGINE COMPARTMENT	Replace		.3	.5			22 30 31		
		Repair		.3				15 26 27 30		
	HATCH INST DRIVER'S DOORS, INSTL PP	Remove/ Install		3.1				26 27 30 34		
		Replace					2.2			
		Repair					1.0			
	DOOR, PWR PLANT	Replace		.8				15 27 30		
		Repair		.3				30		
	DOOR, PWR P	Repair			1.2			9 12 17 22 24 30 31		
	HATCH, COV CAR INST	Repair		.2				27 30		
	DOOR, HATCH, VEH	Repair		.2				30		
	COVER, HATCH, CARGO	Replace		.7				27 30		
		Repair			2.3			22		
PWR TRAIN MTG PRO	Repair			.4			8 19 24 30			
AIR CLNR MTG PRO	Repair			.3			24 30			
PP DR MTG PROV	Repair			.4			9 10 11 12 20 21 24 30 61			
MNTG HOLE, GUN S	Repair			.4			4 5 8 9 12 17 19 24 30			
CUPOLA INSTL CMD	Repair		.2				27 30			

MAINTENANCE ALLOCATION CHART (MAC) — Continued

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
	CUPOLA, CMDR'S STA	Replace			1.1			15 24 30	
		Repair		.4	.5			24 26 27 30	
	COVER, CMDR HATCH	Replace		.7				30	
		Repair			.5			22 31	
	RAMPL LOCK INSTL	Test		.1				30	
		Adjust		.2				30	
		Repair		.6				26 30	
	HANDLE ASSY, RAMP	Replace		.1				30	
		Repair		.1				30	
	SPALL LINER INSTL (M113A3)	Repair		.9				27 30 37	
	SMOKE GRENADE LAUNCHER	Repair		.3				30	
	YOKE ASSY, DRIVER	Replace		.1				30	
	AN/VVS-2 DRIVER'S NIGHT VISION MOUNT (ALL EXCEPT M58)	Replace		.9				30	
	1805 FLOOR PLATES	Replace		1.3				30	
		Repair				.7		27 30	
1806 SEATS PLATE INSTL SEAT & BACKREST A	Replace		.6				27 30		
	Repair		.6				27 30		
	SEATBACK ASSEMBLY, DRIVER'S	Replace		.1				27 30	
		Repair		.1				27 30	
	POST ASSY DRIVER'S	Replace		.6				27 30	
		Repair		.7				27 30	
	SEAT ASSY CMDR	Replace		.6				27 30	
		Repair		1.1				27 30	
	SEAT BACK CUSHION	Replace		.1				27 30	
		Repair		.1				27 30	
	CMDR PLATFORM	Replace		.1				27 30	
		Repair		.2				27 30	

MAINTENANCE ALLOCATION CHART (MAC) — Continued

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
1808	ASSEMBLY, STOWAGE BOX (M1068A3)	Replace		.2				27 30	
		Repair		.5				27 30	
	ASSY, WORKSURFACE (M1068A3)	Replace		.3				27 30	
		Repair		.2				27 30	
	SEAT, COMMANDER'S (M1068A3)	Replace		.5				27 30	
		Repair		1.5				27 30	
	SEAT, CREW STATION (M1068A3)	Replace		.5				27 30	
		Repair		1.5				27 30	
	STOWAGE INSTL	Inspect		.5					
		Remove/ Install		.1		.2		30	
		Repair		.3				26 27	
	DRIVER'S NIGHT VISION STOWAGE MOUNT	Replace		.5				30	
		Replace		.9				30	
	RACK, AMMO (M1064A3)	Replace		.4				27 30	
Repair			.4				30		
HOLDER, CABLE REEL (M1064A3)	Replace		.3				27 30		
	Repair		.3				27 30		
MISCELLANEOUS HULL ACCESSORIES	Replace		1.0				30		
	Repair				3.0			E	
CURTAIN, BLACKOUT (M577A3, M1068A3)	Replace		.2		3.0				
	Repair				.2				
2205 BILGE PUMP INSTL PUMP UNIT, CENTRIF	Service		.1				30		
	Replace		.6				26 30 64		
24	HYDRAULIC LIFT COMPONENTS								
2401	HYDRAULIC PUMP	Replace		3.9			27, 30		

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE	
			FIELD		SUSTAINMENT					
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT			
			C	O	F	H	D			
2404	HYD RAMP ACTR INST TANK, RAMP SYSTEM	Replace Repair		1.5			1.0		30	D
2406	ACTR INST HYD RAMP	Repair		.3					30	
2407	CYLINDER, RAMP	Replace		1.3						
2408	TANK, HYDR FLUID	Service Replace Repair		.7 .8 .9					30 30 30	
26	ENGINE & TRANSMISSION									
2604	SLING, ENG & TRANS	Inspect Test Repair		.1		.8			26 30 30	
	STAND, ENG & TRANS	Service Adjust Repair				.1 .2 1.3			22 30 31 24 320 22 24 30 31	
29	AUXILIARY GENERATOR									
2901	4.2 KW GENERATOR SET (M557A3, M1068A3)	Service Adjust Replace Repair Overhaul	.1	.2 .2 .2			3.2		30 63 30 63 30 24 60	
2901	5.0 AUXILIARY POWER UNIT (M577A3, M1068A3)	Service Remove/Install		1.8					30	Q
33	SPECIAL PURPOSE KITS									
3301	SHIPPING CONTAINERS, ENGINE	Replace Repair		.2 1.5	.2 1.5				30 30	T
3303	HEATER KIT, ENGINE COOLANT	Service Remove/ Install Repair		.2		10.0			27 30 32 26 27 30 34 64	

MAINTENANCE ALLOCATION CHART (MAC) — Continued

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
	COOLANT HEATER	Test			.8			24 32 76	
		Adjust		.5				27 29 30 34 43 57	
		Remove/ Install		3.3				27 29 30 34 43 57	
		Replace		4.0				27 29 30 34 43 57	
		Repair		.7	.3			23 24 26 27 29 30 32 34 43 57	
	BOX ASSEMBLY, CONTROL	Replace		.2				30	
		Repair		1.9				30 64	
	PERSONNEL HEATER KIT	Service		.2				30	
		Remove/ Install			8.0			30 32	
		Repair		.8	8.6			24 30 64	
	HEATER, VEHICULAR	Replace		1.0	3.0				
		Repair							N
		Overhaul							N
	DUCT ASSY	Replace		.2				30	
		Repair		.2				30	
	BOX ASSEMBLY, CONTROL (HEATER)	Replace		.2				30	
		Repair		1.9				64	
	FILTER, FUEL	Service		.2				30	
		Replace		.3				30	
	PUMP, FUEL, HEATER	Service		.1				30	
		Replace		.2				30	
	PERSONNEL HEATER KIT (ALL CARRIERS EXCEPT M577A3)	Remove/ Install			10.0			24 30	
		Repair			10.6			24 30	
	PURIFIER, AIR (M113A3)	Replace		.9					
		Repair			*				R
		Adjustment			*				R

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
3307	PRECLEANER AND PARTICULATE FILTER	Replace		.6					R
		Repair			*				R
		Adjustment			*			65	R
	DRIVR'S WINDSH	Remove/ Install	.1	.2				30	
		Repair		.1				30	
	LITTER KIT	Inspect	.1						
		Remove/ Install		.3				30	
	SPT POST LITTER	Replace		.5				30	
		Repair		.5				30	
	CHAIN ASSY LIT C	Replace		.1				30	
		Repair		.5				30	
	SHCK MTG INST, CBR	Repair		.7				30	
	BRACKET, DOOR	Replace		.1				30	
		Repair		.1				30	
	SOCKET ASSY, PINTLE	Replace		.1				30	
	PLATFORM ASSY GUN M	Replace		.1				30	
		Repair		.5				30	
	ANCHOR KIT (M1059A3)	Remove/ Install				1.0		24 30	
		Replace				.6		30	
		Repair		.2				30	
	APU COVER (M577A3, M1068A3)	Replace		.1					
Repair				.5					
ADAPTER ASSEMBLY (M577A3, M1068A3)	Replace		.1						
	Repair		.1						
CAPSTAN KIT (M1059A3)	Remove/ Install				3.0		30		
	Repair		.3				30		

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
	HEATER KIT, ENGINE COOLANT	Service		.2				27 30	
		Remove/ Install			10.0			32	
		Repair		.3				26 27 30 34 64	
	MACHINE GUN SHIELD KIT (M113A3)	Remove/ Install			10.0			22 24 30	
		Repair		.6				30	
	MOUNTING ARM ASSY	Replace		.1				30	
		Repair		.4	.9			24 30	
	NON-SKID RAMP KIT (M1064A3)	Remove/ Install			4.0			30	
		Repair			1.3				
	SMOKE GENERATOR ASSEMBLY (M1059A3)	Service	*						K
		Replace		.5					
		Repair		*			*		K
	SUPPORT ASSEMBLY, SMOKE GENERATOR (M1059A3)	Replace		1.0				30	
		Repair		.5				30	
	SUPPORT POST LITTER	Replace		.5				30	
		Repair		.5				30	
	ADAPTER, FUEL TANK (M1059A3)	Service	.1						
		Replace		.2				30	
		Repair		.5				30	
	PANEL ASSY, OPERATOR'S (M1059A3)	Replace		.5				30	K
		Repair		*				30	K
	FOG OIL TANK MODULE (M1059A3)	Replace		1.0				30	K
		Repair		.5				30	K
	CABLE ASSEMBLY, OPERATOR'S PANEL, MAIN POWER (M1059A3)	Replace		.2				30	
		Repair		.5				30	C
	CABLE ASSEMBLY, PANEL TO COMPRESSOR (M1059A3)	Replace		.2				30	
		Repair		.5				30	C

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
	CABLE ASSEMBLY, PANEL TO PUMP PANEL TO ACCESS PLATE (M1059A3)	Replace		.3				30	
		Repair		.5				24 30	D
	CABLE ASSEMBLY, SMOKE GENERATOR TO ACCESS PLATE (M1059A3)	Replace		.5				30	D K
		Repair			.5			24 30	D K
	PUMP ASSEMBLY, FOG OIL (M1059A3)	Replace		.8				30	K
		Repair		*				30	K
	AIR COMPRESSOR ASSEMBLY (M1059A3)	Replace		.5			*	30	K
42	ELECTRICAL EQUIPMENT								S
4202	CABLE ASSY, AC POWER EXT (W7, W8) (M1068A3)	Replace		0.4				30	
		Repair			0.3			64	C
	CABLE ASSY (W4/W6) (M1068A3)	Replace		0.3					
		Repair		0.3				30	C
	POWER DISTRIBUTION ASSY (A3) (M1068A3)	Replace		0.1				30 66	M
		Repair		0.3				30	
	INVERTER (IN1, IN2) (M1068A3)	Replace			0.6			30	
	CABLE ASSY, INVERTED (W5) (M1068A3)	Replace		0.4					
		Repair		0.3					
	HOUSING ASSY, INVERTER (A2) (M1068A3)	Replace			0.6			24 30	
		Repair		0.4	0.8			24 30	
	CABLE ASSY, DC POWER EXT (W10) (M1068A3)	Replace		0.4					
		Repair			0.3			66 67	
	CABLE ASSY, AC LIGHT CORD (W11) (M1068A3)	Replace		0.4				30	
		Repair			0.3			67	
	CABLE ASSY (W3) (M1068A3)	Replace		0.4				30	
		Repair			0.3			30 67	

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
	CABLE ASSY, SINGLE POINT LAN (W40) (M1068A3)	Replace		0.1				30	
		Repair		0.2				67	
	CABLE ASSY, DC INPUT (W42) (M1068A3)	Replace		0.4				30	
		Repair			0.3			67	
	CABLE ASSY, AC INPUT (W43) (M1068A3)	Replace		0.4				30	
		Repair			0.3			67	
	CABLE ASSY (W32) (M1068A3)	Replace		0.6				30	
		Repair			0.5			67	
	BOX ASSY, EXT, COMM (M1068A3)	Replace		0.3				66	
		Repair			1.1			67	
	CABLE ASSY LAN (W101, W102) (M1068A3)	Replace		1.8				67	
		Repair			0.1			67	
	CABLE ASSY, LAN (W103, W104) (M1068A3)	Replace		0.2				66	
		Repair			0.3			67	
	BOX ASSY, POWER ENTRY (A4) (M1068A3)	Replace		0.3				30	
		Repair			0.6			30	
	CABLE ASSY, POWER ENTRY INPUT (W13) (M1068A3)	Replace		0.3					M
		Repair			0.2	0.4			
	CABLE ASSY, POWER ENTRY OUTPUT (W14) (M1068A3)	Replace		0.3					M
		Repair			0.2	0.4			
	ENCLOSURE ASSY, POWER CONTROL (A1) (M1068A3)	Replace		0.2				30	
		Repair			0.6	1.1		30	
	FACEPLATE ASSY, POWER CONTROL (M1068A3)	Repair		0.5				30	
	CABLE ASSY, EXT POWER INPUT (W1) (M1068A3)	Replace		0.1					
		Repair			0.2	0.4		66 67	
	CABLE ASSY, POWER, EXT AC (W2) (M1068A3)	Replace		0.1					
		Repair			0.1			66 67	

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
47	PANEL ASSY, TENT INT BOX (A5) (M1068A3)	Replace		0.2				30 66	
		Repair			0.5			30 67	
	MOUNT ASSY, FACSIMILE MACH (M1068A3)	Replace		*					S
		Repair		*					S
	BOX ASSY, POWER SUPPLY STORAGE (M1068A3)	Replace		0.1				30	
		Repair		0.2				30	
	BOX, AC POWER (A6, A7) (M1068A3)	Replace		0.1				30	
		Repair			0.3			32	
	BOX, DC POWER (A9) (M1068A3)	Replace		0.1				30	
		Repair			0.4			32	
	GROUND BOX, SINGLE POINT LAN (A15) (M1068A3)	Replace		0.1				66	
		Repair		0.2				66	
	MOUNT, V2 PRINTER (12383945) (M1068A3)	Replace		0.1				30	
		Repair		0.3				30	
	PATCH PANEL BOX (A10) (M1068A3)	Replace		0.2				66	
		Repair		0.5				67	
	DATA PANEL ASSY (A12) (M1068A3)	Replace		0.6				66	
		Repair			0.8			66	
	DATA PANEL ASSY (A13) (M1068A3)	Replace		0.2				66	
		Repair			0.8			66	
BOX ASSY, POWER EXT (A16, A17) (M1068A3)	Replace		0.3				66		
	Repair		0.7				66		
4701	GAUGES (NON- ELECTRICAL)								
4701	SPDOM TACH CABLE	Repair		1.2				30	
		Service		.3				30	
	TACHOMETER CABLE	Replace		1.2				30	
		Repair		.7				30	
	SPEEDOMETER CABLE	Service		.3				30	
		Replace			.5			30	
	Repair		.7				30		
SHAFT, ASSEMBLY	Replace		.5						

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(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE	
			FIELD		SUSTAINMENT					
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT			
			C	O	F	H	D			
67	FLEXIBLE SPEEDOMETER OR TACHOMETER	Repair		.2						
6702	PRECISION INSTRUMENTS AND SYSTEMS, MECHANICAL, ELECTRICAL, ELECTRONIC									
6715	DRIVER'S VIEWER ENHANCER (DVE)	Replace		5.0			26 29 30 34 43 57 60	R		
		Repair		1.1	1.0		23 24 27 30 32 60			
	DISTRIB BOX MSD-ICE	Replace		.6			30 60			
		Repair			1.1		30 32			
	WIRING HARN CREW	Replace		2.3			27 30 60			
		Repair		.6			27 30 60			
	WIRING HARN MSD-ICE	Replace		5.0			26 29 30 34 43 57 60			
		Repair		1.1	1.0		23 24 27 30 32 60			
68	WARNING, SCANNING AND SIGNAL DEVICES AND NAVIGATIONAL INSTRUMENTS									
6809	ANTENNA, RADIO	Replace		.1			66			
	CONT INTERCOM SET	Replace		.1			66			
	AMP AUDIO FREQ	Replace		.1			66			
		Repair					63 64 73 77			
	JUNCTION BOX ASSY	Replace		.1			30			
		Repair					66			
	RADIO SET AN/VRC 46	Replace		.1						
76	RADIO AN/GRC-160	Replace		.1						
	FIXED FIRE EXTINGUISHER SYSTEM									

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REF CODE	(6) REMARKS CODE
			FIELD		SUSTAINMENT				
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
7638	PORTABLE FIRE EXTINGUISHER (M1059A3)	Inspect Service	.1				.5		
7639	EXT INSTL FXD FIRE	Replace Repair		.1 .2				26 30 24 30	
	CYLNDR, COMPRESS G	Service Replace				.1		30 26 30	
91	CHEMICAL BIOLOGICAL AND RADIOLOGICAL (CBR) EQUIPMENT								
9111	CABLE ASSY	Replace Repair			.2 .2			30 69 67 75	
9116	NBC MOUNTING KIT	Remove/ Install Replace		3.0		1.2			
	SHOCK MTG INSTL, CRB	Repair		.7				30	
9131	CHEM AGENT AUTO	Remove/ Install Repair		1.8 0.7				3 27 30	P
	DISTRIB BOX	Replace Repair		.2 .3				26 30 26 30	
	RPR PAD, BTRY BRK	Repair		.1				3 26 30	

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

Table 2. TOOLS AND TEST REQUIREMENTS, SECTION III

EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
1	O	CROWFOOT ATTACHMENT	5120-00-184-8397	AN8506-3
2	O	PLIERS, ELEC CON	5120-00-624-8065	AT508K
3	O	WRENCH, TORQUE	5120-00-542-5681	B58
4	F	WRENCH, SPANNER	5120-01-263-3623	CRB2112D
5	F	WRENCH, INSERT	5120-01-250-6420	CRB2112WIS
6	F	INSERTER, SCREW THREAD	5120-01-163-1425	CR06W
7	F	INSERTER, SCREW THREAD	5340-01-153-1860	CR08W
8	F	INSERTER, SCREW THREAD	5120-01-163-9922	CR10W
9	O F	INSERTER, SCREW THREAD	5120-01-159-6487	CR12W
10	F	INSERTER, SCREW THREAD	5120-01-254-1497	CR13W
11	F	DRILL, TWIST	5133-00-228-1351	GGG-D-751
12	F	DRILL, TWIST	5133-00-277-6942	GGGD751
13	O	ADJ, STEER CENTERING	2530-01-249-6439	J35223
14	O F	CRIMPING TOOL, TERMINAL	5120-00-432-7836	MY28
15	O F	SLING, ENDLESS	3940-00-675-5003	PD101-96
16	F	INSERTER, BEARING AN	5120-00-708-2641	R108D
17	F	DRIVE TOOL, LOCKRING	5120-01-165-0488	R112D
18	F	INSERTER, BEARING AN	5120-00-473-7014	R206D
19	F	INSERTER, BEARING	5120-00-473-7017	R210D
20	F	INSERTER, BEARING AN	5120-00-378-4276	R212D
21	F	INSERTER, BEARING AN	5120-01-249-6363	R213D
22	F	WELDING SHOP, TLRMTD	4940-01-090-1231	SC3431-95-A04
23	F H	SHOP EQUIP, F/E BSC	4940-00-754-0714	SC4910-95-B20
24	O	TOOL KIT, AUTO MAINT	4910-00-754-0705	SC4910-95-A31
25	F	SHOP EQUIP, SUPPL #1	4910-00-754-0706	SC4910-95-A62
26	O F D	SHOP EQUIP, COM #2	4910-00-754-0650	SC4910-95-A72
27	O F	SHOP EQUIP, COM #1	4910-00-754-0654	SC4910-95-A74
28	F H	SHOP EQUIP RDTR T/R	4910-00-071-0747	SC4910-95-A76
29	O	TOOL SET, SUPPL #2	4940-00-754-0743	SC4940-95-A08
30	O F H	TOOL KIT, GEN MECH	5180-00-177-7033	SC5180-90-N26

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
31	F	TOOL KIT, BODY & FEN	5180-00-754-0643	SC5180-95-N34
32	F H	TOOL KIT, AUTO F/E	----	SC5180-95-B08
33	O	TESTING KIT, RAD	4910-00-728-8227	ST255
34	O F	CALKING GUN	5120-00-679-5655	101
35	O	SPACER, RING	5365-00-004-0763	10863001
36	O	REPLACER, GREASE CAP	5120-00-678-2796	10863002
37	O	ADAPTER, TORQUE WRENCH	5120-00-977-7421	10917666
38	F	TOOL KIT, THREAD INS	5180-00-966-5961	10932474
39	O	SOCKET WRENCH ATTACH	5120-00-053-3625	10932504
40	O	BAR, LIFTING FINAL DRIVE	5120-00-918-0586	11589384
41	O	ADAPTER	5120-00-933-8458	11592843
42	O	GAUGE, OIL TESTER	6695-01-242-6795	11650182
43	O F	ADAPTER, TORQUE WRENCH	5120-00-213-6976	11663358-1
44	O	ADAPTER, TORQUE WRENCH	5120-00-215-8200	11663358-2
45	O	CLEANING POOL, RADIATOR	4910-00-611-6559	11678393
46	O	PUNCH, DRIVE PIN	5120-01-006-8847	11678718
47	O	ADAPTER, TORSION BAR	5120-01-017-5328	12251805
48	O	FIXTURE, TRACK CONNE	5120-01-041-4624	12253183
49	O	GAUGE	5120-01-041-9920	12253280
50	O	LIFTER, ROADWHEEL	5120-01-062-5607	12268612
51	O	REPLACE, IDLER BAR	5120-01-102-4627	12269371
52	O	REMOVAL TOOL, SHOCK	5120-01-102-4628	12269380
53	O	REMOVER AND REPLACE	4910-01-128-0092	12269522
54	F	POSITION, BEARING	4910-01-128-0093	12313101
55	F	STAKER, BEARING	4910-01-128-0094	12313102
56	F	STAND, ENGINE AND TRANS	4910-01-239-6836	12349616
57	O F	SLING, ENGINE AND TRANS	1450-01-240-2206	12350306
58	O	BRACKET, ANGLE, LIFTING	5340-01-264-5991	12354718
59	O	TENSIOMETER, V-BELT	6635-00-921-6255	12998F
60	O	TEST SET, STE/ICE	4910-01-222-6589	12259266
61	F	SOCKET, TAPER SHANK	3460-00-227-7520	51132TY3CL1SI ZE5

MAINTENANCE ALLOCATION CHART (MAC) — Continued

0925 00

EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
62	O	PULLER, MECHANICAL	5120-00-557-3615	5573615
63	O	MULTIMETER	6625-01-139-2512	T00377
64	O F	MULTIMETER	6625-01-265-6000	27/FMW/ACCE
65	O	TESTER, AIR FLOW, GAS FILTER	6680-00-436-4212	E5-77-2120
66	O F D	TOOL KIT, RADIO EQUIPMENT	5180-00-064-5178	TK-101/G
67	O F D	TOOL KIT, ELECTRONIC EQUIPMENT	5180-00-610-8177	TK-105/G
68	D	DIGITAL VOM OR EQ	----	KIETHLEY 177
69	F D	TOOL KIT, CAB RPR	2590-01-205-5998	12311803
70	O F D	TEST SET, CONT BOX	2950-01-205-6000	12311806
71	F D	TOOL KIT, CABLE RPR	2590-01-139-9673	12311946
72	F	SOLDERING AND BRAZING OUTFIT	3439-00-460-7198	W-TCP-K
73	O C F	TOOL KIT INST+FC	4931-00-947-8243	----
74	C O F H D	TOOL KIT, TURR. MECH.	5180-00-357-7727	----
75	O F D	MULTIMETER	6625-00-553-0142	----
76	O F	PWR SOURCE 24 VDC	6625-00-823-5359	----
77	H D	STATIC CONT. WK STA.	----	725344-1
78	O	WRENCH SET, SOCKET 1/2 DR.	5120-00-596-8622	B107.1CL2STB
79	O	WRENCH SET, SOCKET 3/8 DR	5120-00-322-6231	51200017510
80	O	WRENCH, TORQUE, 3/8 DR. 0-150 LB-IN	5120-00-230-6380	TE-12A
81	O	WRENCH, TORQUE, 3/8 DR. 0-200 LB-IN	5120-00-853-4538	F200-1
82	O	WRENCH, TORQUE, 3/8 DR. 15-75 LB-IN	5120-00-554-7292	GG-W-00686
83	O	WRENCH, TORQUE, 3/8 DR. 0-175 LB-IN	5120-00-640-6364	1753LFH
84		WRENCH, TORQUE, 3/4 DR. 0-600 LB-FT	5120-00-221-7983	TE602A
85		TOOL, TRACK PIN ALIGNMENT	5120-01-504-2610	12474881
86		WRENCH SET, SOCKET, 3/4 DRIVER	5120-00-204-1999	

Table 3. REMARKS, SECTION IV

REMARKS CODE	REMARKS
A.	THE POWER PLANT IS REMOVED AND INSTALLED FOR AUTHORIZED MAINTENANCE THAT CANNOT BE DONE ON ITEMS IN THE POWER PLANT COMPARTMENT WITH THE POWER PLANT IN PLACE. THE POWER PLANT IS NOT AN AUTHORIZED REPLACEMENT PART.
B.	COMPLETE REPAIR IS AUTHORIZED AT GENERAL SUPPORT MAINTENANCE. SEE TM 9-2350-277-24P FOR PARTS REPLACED AT UNIT MAINTENANCE. SEE TM 9-2815-205-34P FOR PARTS REPLACED AT DIRECT/GENERAL SUPPORT MAINTENANCE.
C.	REPAIR IS LIMITED TO PARTS LISTED IN TM 9-2350-277-24P.
D.	REPAIR IS LIMITED TO PARTS AUTHORIZED IN TM 9-2350-277-24P.
E.	COMPLETE REPAIR IS AUTHORIZED AT DIRECT SUPPORT MAINTENANCE. SEE TM 9-2350-277-24P FOR PARTS REPLACED AT UNIT MAINTENANCE.
F.	REPAIR IS LIMITED TO PARTS LISTED IN TM 9-2920-257-30&P.
G.	COMPLETE REPAIR IS AUTHORIZED AT DEPOT MAINTENANCE. SEE TM 9-2350-277-24P FOR PARTS REPLACED BY UNIT MAINTENANCE. SEE TM 9-2520-272-34P FOR PARTS REPLACED BY DIRECT SUPPORT MAINTENANCE.
H.	COMPLETE REPAIR IS AUTHORIZED AT GENERAL SUPPORT MAINTENANCE. SEE TM 9-2350-277-24P FOR PARTS REPLACED BY UNIT MAINTENANCE. SEE TM 9-2520-238-34P FOR PARTS REPLACED BY DIRECT/GENERAL SUPPORT MAINTENANCE.
I.	TRACK SHOE REMOVAL MAY BE REQUIRED TO ADJUST THE TRACK PROPERLY. THE TRACK ASSEMBLY IS NOT AUTHORIZED AS A REPAIR PART.
J.	SEE TM 9-2350-277-10 AND TB 750-651 FOR CREW SERVICE.
K.	SEE TM 3-1040-283-20&P FOR UNIT REPAIR AND MAINTENANCE ALLOCATION CHART (MAC) AND REPAIR PARTS.
L.	SEE TM 9-6140-200-14 FOR CREW AND UNIT SERVICES.
M.	PART OF POWER ENTRY BOX (A4).
N.	SEE TM 9-2450-207-14&P FOR MAC, MAINTENANCE TASKS, AND REPAIR PARTS.
O.	SEE TM 3-4240-276-30&P FOR MAINTENANCE TASKS AND REPAIR PARTS.
P.	SEE TM 3-6665-255-12 FOR MAC AND MAINTENANCE TASKS AT CREW AND UNIT LEVEL.
Q.	SEE TM 9-6115-664-13&P FOR UNIT REPAIR, DIRECT SUPPORT REPAIR AND MAINTENANCE ALLOCATION CHART (MAC).
R.	SEE TM 11-5855-311-12&P-1 FOR MAC, MAINTENANCE TASKS, AND REPAIR PARTS.
S.	SEE TM 11-7010-256-12&P FOR CREW SERVICES, UNIT REPAIR, MAC, AND REPAIR PARTS.
T.	SEE TM 9-2815-205-34 AND TM 9-2815-205-34P FOR MAINTENANCE PROCEDURES AND REPAIR PARTS.

COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES LIST

0926 00

INTRODUCTION

Scope

This work package lists all common tools, supplements and special tools/fixtures needed to maintain the M113A3, M577A3, M1059A3, M1064A3, M1068A3, and chassis portions of the M58 carriers.

M1064A3 common and special tools for the 120-mm (4.7 inch) M285 mortar, mortar mounts, and turntables are listed in TM 9-1015-250-23.

M157A2 Smoke Generator System (in the M1059A3) common and special tools are listed in TM 3-1040-283-20&P.

M58 common and special tools for the Mechanized Smoke Obscurant System Smoke Generator are listed in TM 3-1040-285-20.

M1068A3 Standardized Integrated Command Post System (SICPS) common and special tools are listed in TM 11-7010-256-12&P. Modular Command Post System (MCPS) common and special tools are listed in TM 10-8340-243-13&P.

Explanation of Columns

Column (1) — Item Number. This number is assigned to the entry in the listing and is referenced in the Initial Setup section of the task under Tools to identify the item (e.g., “Torque wrench (WP 0926 00, Item 78)”).

Column (2) — Name. This column lists the item by noun nomenclature and other descriptive features (e.g., “Wrench set, socket, 1/4 drive”).

Column (3) — National Stock Number. This is the National Stock Number (NSN) assigned to the item; use it to requisition the item.

Column (4) — Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

Column (5) — Reference. This column identifies the authorizing Supply Catalog (SC) or Repair Parts and Special Tools List (RPSTL) for items listed in this appendix.

Table 1. Tool Identification List

(1) ITEM NO.	(2) ITEM NAME	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) REFERENCE
1	ADAPTER, SOCKET, WRENCH (1/2 TO 3/4 DRIVE)	5120-00-227-8088	SH-131	SC 4910-95-A81
2	ADAPTER, SOCKET, WRENCH (1/2 TO 3/8 DRIVE)	5120-00-240-8703	B107.10M	SC 4910-95-A81
3	ADAPTER, TORQUE WRENCH, 7C U-JOINT	5120-00-213-6976	11663358-1	TM 9-2350-277-24P
4	ADAPTER, TORQUE WRENCH, 6C U-JOINT	5120-00-215-8200	11663358-2	TM 9-2350-277-24P
5	ADAPTER, TORQUE WRENCH, 1/2 DRIVE, 9/16 INCH	5120-00-977-7421	10917666	SC 4910-95-A81
6	ADAPTER, TORSION BAR	5120-01-017-5328	12251805	TM 9-2350-277-24P
7	ADJUSTING SLEEVE, TIE ROD STEERING	2530-01-249-6439	J35223	TM 9-2350-277-24P

COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES
LIST — Continued

0926 00

(1) ITEM NO.	(2) ITEM NAME	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) REFERENCE
8	BAR, LIFTING, FINAL DRIVE	5120-00-918-0586	11589384	TM 9-2350-277-24P
8.1	TESTER, ANTIFREEZE AND BATTERY	6630-00-105-1418	137584L0	SC 4910-95-A81
9	BRACKET, ANGLE, LIFTING	5340-01-264-5991	12354718	TM 9-2350-277-24P
10	BRUSH, WIRE, BATTERY	5120-00-926-5175	BT1	SC 4910-95-A81
11	BUSHING, PIPE, 1/4 EXT X 1/8 INT	4730-00-277-9386	AS4842	SC 4940-95-B03
12	CAN, RADIATOR FILLING, 12 QT	7240-00-499-8028	6Y812	SC 4940-95-B09
13	CLEANING TOOL, RADIATOR	4910-00-611-6559	11678393	TM 9-2350-277-24P
14	CROWFOOT ATTACHMENT, SOCKET	5120-01-348-7308	AN8508-32B	SC 5180-92-020
15	CROWFOOT ATTACHMENT, SOCKET	5120-00-184-8397	3318	SC 5180-92-020
16	CROWFOOT ATTACHMENT, SOCKET	5120-00-229-2772	1C2690	SC 4910-95-A81
17	DISPENSER, SEALANT (CAULKING GUN)	5120-00-679-5655	101	TM 9-2350-277-24P
18	DRILL SET, TWIST	5133-00-293-0983	DB129B	SC 4910-95-A81
19	DRILL, PORTABLE, ELECTRIC, 1/4 INCH	5130-00-807-3009	5310-00-807-3009	SC 4910-95-A81
20	DRILL, PORTABLE, ELECTRIC, 1/2 INCH	5130-00-293-1849	5130-00-293-1849	SC 4910-95-A81
21	FITTING KIT, TUBE-PIPE	4730-00-470-6625	51025	SC 4940-95-B03
22	FIXTURE, TRACK CONNECTING	5120-01-041-4624	12253183	TM 9-2350-277-24P
23	FRAME, HACKSAW	5110-00-289-9657	163-20	SC 4910-95-A81
24	GAUGE, TRACK AND SPROCKET (T130)	5120-01-041-9920	12253280	TM 9-2350-277-24P
25	HEATER, GUN TYPE, ELECTRIC	4940-00-561-1002	500A	TM 9-2350-277-24P
26	HOSE ASSEMBLY, NONMETALLIC	4720-00-454-8608	11633323	TM 9-2350-277-24P
27	JACK, HYDRAULIC, HAND, 12 TON CAPACITY	5120-00-224-7330	E12-9A	SC 4910-95-A81
28	LIFTER, ROADWHEEL (T130)	5120-01-062-5607	12268612	TM 9-2350-277-24P
28.1	LIFTER ASSEMBLY, ROADWHEEL (T150)	5120-01-496-3694	12474852	TM 9-2350-277-24P
29	LUBRICATING GUN, HAND	4930-00-253-2478	1142	SC 4933-95-A12
30	MULTIMETER, (DIGITAL, AN/PSM-45)	6625-01-265-6000	27W/ACCE	SC 4910-95-A81
31	PLIERS, SLIP JOINT	5120-00-624-8065	10153979	SC 4910-95-A81
32	PLIERS SET, RETAINING RING	5120-00-789-0492	4440R	SC 4940-95-B03
33	PLUG, PIPE, 1/8 INCH	4730-00-011-3175	S15004	SC 4940-95-B03

**COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES
LIST — Continued**

0926 00

(1) ITEM NO.	(2) ITEM NAME	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) REFERENCE
34	PRESS, LEAD SEAL, HAND	5120-00-224-7592	GGG-S-735/ 8	SC 4940-95-A68
35	PRESSURE GAUGE KIT (TRANSMISSION)	6695-01-242-6795	11650182	TM 9-2350-277-24P
36	DELETED			
37	PULLER, BATTERY TERMINAL	5120-00-944-4268	54150	SC 4910-95-A68
38	PULLER, MECHANICAL	5120-00-595-9305	GGG-P-781	SC 4910-95-A68
39	PULLER, SLIDE	5120-00-557-3615	5573615	TM 9-2350-277-24P
40	PUNCH, DRIVE PIN	5120-01-006-8847	11678718	TM 9-2350-277-24P
41	REMOVER AND REPLACER (BEARINGS & SEALS)	4910-01-128-0092	12269522	TM 9-2350-277-24P
42	REPLACER, GREASE CAP	5120-00-678-2796	10863002	TM 9-2350-277-24P
43	REPLACER, IDLER BEARING	5120-01-102-4627	12269371	TM 9-2350-277-24P
44	RIVETER, BLIND, HAND	5120-01-289-4310	200-GK	SC 5180-95-N19
45	SCREW, CAP, SOCKET HEAD	5305-00-983-7456	MS16998-97	TM 9-2350-277-24P
46	SCREWDRIVER, CROSS-TIP	5120-00-224-7375	SDDP64	SC 4910-95-A81
46.1	SHOP SET, SMALL ARMS	4933-00-754-0664	SC4933- 85CKA11	SC 4933-95-A11
47	SLING, ENDLESS (25 FT NYLON)	3940-00-675-5003	PD101-96	TM 9-2350-277-24P
48	SLING, BEAM TYPE (ENGINE & TRANSMISSION)	1450-01-240-2206	12350306	TM 9-2350-277-24P
49	SOCKET, 1/2 DRIVE, 1-1/2 SPLINE	5120-00-906-1051	8355955	TM 9-2350-277-24P
50	SOCKET, 3/4 DRIVE, 15/16 INCH	5120-00-181-6813	1230	SC 4910-95-A81
51	SOCKET, UNIVERSAL, 3/8 DRIVE, 9/16 INCH, 12-PT	5120-00-237-0978	B107.1	SC 4910-95-A81
52	SOCKET WRENCH ATTACHMENT, 3/8 DRIVE, 5/16 HEX	5120-00-243-1674	FA10	TM 9-2350-277-24P
53	SOCKET WRENCH ATTACHMENT, 3/4 DRIVE, 1-3/8 HEX	5120-00-053-3625	10932504	TM 9-2350-277-24P
54	SOLDERING GUN (ELECTRIC)	3439-00-618-6623	A-A-59307- 1A1B	SC 4910-95-A81
55	SOLDERING TORCH KIT	3439-00-542-0531	JT25	SC 4910-95-A81
56	SPACER, RING	5365-00-004-0763	10863001	TM 9-2350-277-24P
57	DELETED			

COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES

0926 00

LIST — Continued

(1) ITEM NO.	(2) ITEM NAME	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) REFERENCE
57.1	TAP, THREAD CUTTING (1/2-20 UNF)	5136-00-580-7184	B94.9	SC 4910-95-A81
57.2	TAP, THREAD CUTTING (5/8-11 UNC)	5136-00-223-6228	B94.9	SC 4910-95-A81
58	TAPE, MEASURING (50 FT.)	5210-00-554-7085	403	SC 4910-95-A81
59	TENSIOMETER, V-BELT	6635-00-921-6255	12998F	TM 9-2350-277-24P
60	TEST KIT, RADIATOR - RADIATOR CAP	4910-00-728-8227	10513874	SC 4910-95-A81
61	TEST SET, STE/ICE-R	4910-01-222-6589	12259266	TM 9-4910-571-12&P
62	TESTER, AIRFLOW, GAS- PARTICULATE FILTER UNIT	6650-00-436-4212	E5-77-2120	TM 3-6680-316-10
63	TOOL KIT, BODY AND FENDER REPAIR	5180-00-754-0643	SC5180-90- N34	SC 5180-95-N34
64	TOOL KIT, ELECTRICAL	5180-00-876-9336	7550526	SC 4940-95-B09
64.1	TOOL KIT, ELECTRONIC	5180-00-999-5943	SC5180- 92CLAAB04	SC 5180-92-B04
65	TOOL KIT, GENERAL MECHANIC'S	5180-00-177-7033	SC5180-90- CL-N26	SC 5180-95-N26
66	TOOL KIT, ELECTRONIC EQUIPMENT	5180-00-064-5178	TK101GISS UE6	SC 5180-91-R13
67	TOOL, SHOCK ABSORBER REMOVER	5120-01-102-4628	12269380	TM 9-2350-277-24P
67.1	TOOL, TRACK PIN ALIGNMENT (T150)	5120-01-504-2610	12474881	TM 9-2350-277-24P
68	VICE, MACHINIST'S	5120-00-293-1439	504M2	SC 4910-95-A81
69	WELDING SHOP, TRAILER MOUNTED	4940-01-090-1231	11022000	SC 3431-95-A04
70	WRENCH SET, SOCKET, 1/4 DRIVE	5120-00-081-2305	B107.1	SC 4910-95-A81
71	WRENCH SET, SOCKET, 1/2 DRIVE	5120-00-596-8622	B107.1	SC 4910-95-A81
72	WRENCH SET, SOCKET, 3/8 DRIVE	5120-00-322-6231	51200017510	SC 4910-95-A81
73	WRENCH SET, SOCKET, 3/4 DRIVE	5120-00-204-1999	B107.1	SC 4910-95-A81
74	DELETED			
75	WRENCH, ADJUSTABLE, 3-5/8 INCH	5120-00-264-3793	2117080	SC 4910-95-A81
76	WRENCH, OIL FILTER	5120-01-197-6720	YA342B	TM 9-2350-277-24P
77	WRENCH, PIPE, 2 INCH	5120-00-277-1461	41W664	SC 4910-95-A81
77.1	WRENCH, TAP AND REAMER	5120-00-289-0539	6	SC 4910-95-A81
78	WRENCH, TORQUE, 1/4 DRIVE, 0-75 LB-IN	5120-01-112-9532	TQS6A	SC 4910-95-A81
79	WRENCH, TORQUE, 3/8 DRIVE, 0-150 LB-IN	5120-00-230-6380	TQ12B	SC 4933-95-A12

**COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES
LIST — Continued**

0926 00

(1) ITEM NO.	(2) ITEM NAME	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) REFERENCE
80	WRENCH, TORQUE, 3/8 DRIVE, 0-200 LB-IN	5120-00-853-4538	3305725-1	SC 4910-95-A81
81	WRENCH, TORQUE, 3/8 DRIVE, 0-600 LB-IN	5120-00-542-5681	B107.14M	SC 5180-95-A12
82	WRENCH, TORQUE, 3/8 DRIVE, 5-75 LB-FT	5120-01-355-1734	QD2FR75	SC 4910-95-A81
83	WRENCH, TORQUE, 1/2 DRIVE, 0-300 LB-IN	5120-00-247-2536	B107.14M	TM 9-2350-277-24P
84	WRENCH, TORQUE, 1/2 DRIVE, 0-150 LB-FT	5120-00-247-2540	J-1313-B	TM 9-2350-277-24P
85	WRENCH, TORQUE, 1/2 DRIVE, 0-175 LB-FT	5120-00-640-6364	B107.14M	SC 4940-95-B03
86	WRENCH, TORQUE, 3/4 DRIVE, 100-600 LB-FT	5120-01-113-9564	7379	SC 4910-95-A81
87	YARDSTICK (ALUMINUM)	5210-00-985-6610	1260	TM 9-2350-277-24P
88	YARDSTICK (WOOD)	5210-00-243-3349	A-A-2940	SC 4940-95-B03

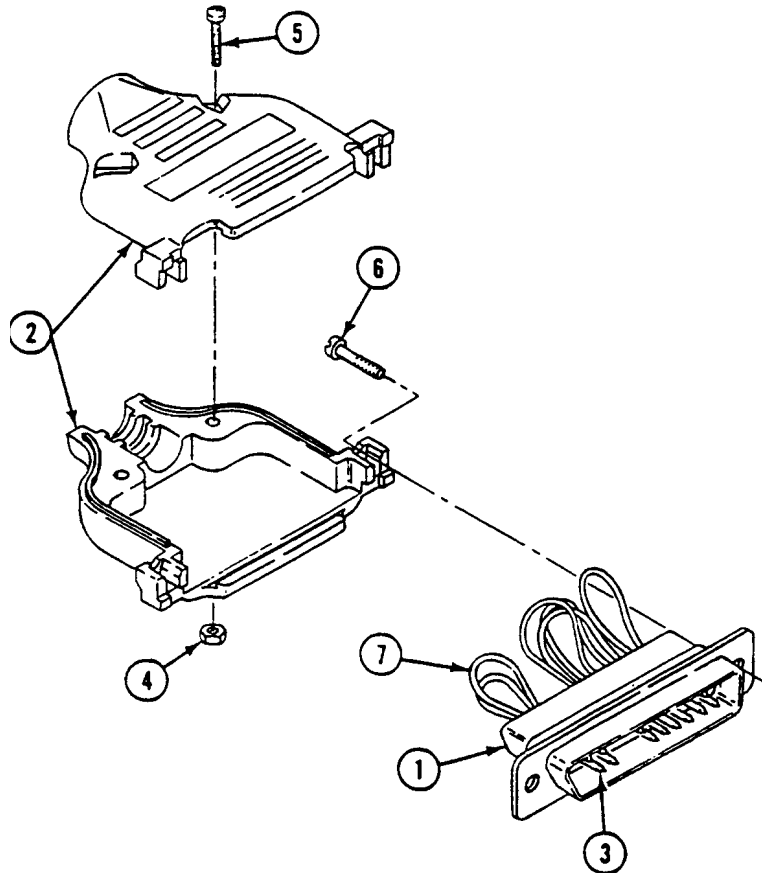
FABRICATED TOOLS

0927 00**INTRODUCTION****SCOPE**

This work package includes instructions for making tools authorized to be fabricated at unit maintenance level. These tools are needed for special maintenance procedures, but are not available in the supply system. The tools are normally fabricated locally when required by the troubleshooting or maintenance task.

FABRICATION ILLUSTRATIONS

The following figures provide tool fabrication instructions. All parts and bulk materials needed for manufacturing the tool are listed on each figure. When needed, any special explanatory instructions are included in the notes on the figure.



PARTS REQUIRED:

<u>Item</u>	<u>Part Name</u>	<u>Part No.</u>	<u>CAGEC</u>	<u>NSN</u>	<u>Qty</u>
1	Connector	539409-5	96214	5935-00-098-9135	1
2	Shell	TBD	TBD	TBD	1
3	Pin (Male)	66506-9	00779	5999-01-083-0891	12
4	Nut	TBD	TBD	TBD	2
5	Screw	TBD	TBD	TBD	2
6	Screw	TBD	TBD	TBD	2
7	Wire (22 AWG)	M22759/16-22-9	81349	6145-01-042-4622	AR
8	Sealant	TBD	TBD	TBD	AR

NOTES:

1. Install minimum length (1 to 1-1/2 inches each) jumper wires (7) between pins (3), and insert pins into connector (1) as follows:

2-3

6-21

11-24

15-16

19-23

20-22

2. Leave pins out of positions 1, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, and 25.

CAUTION

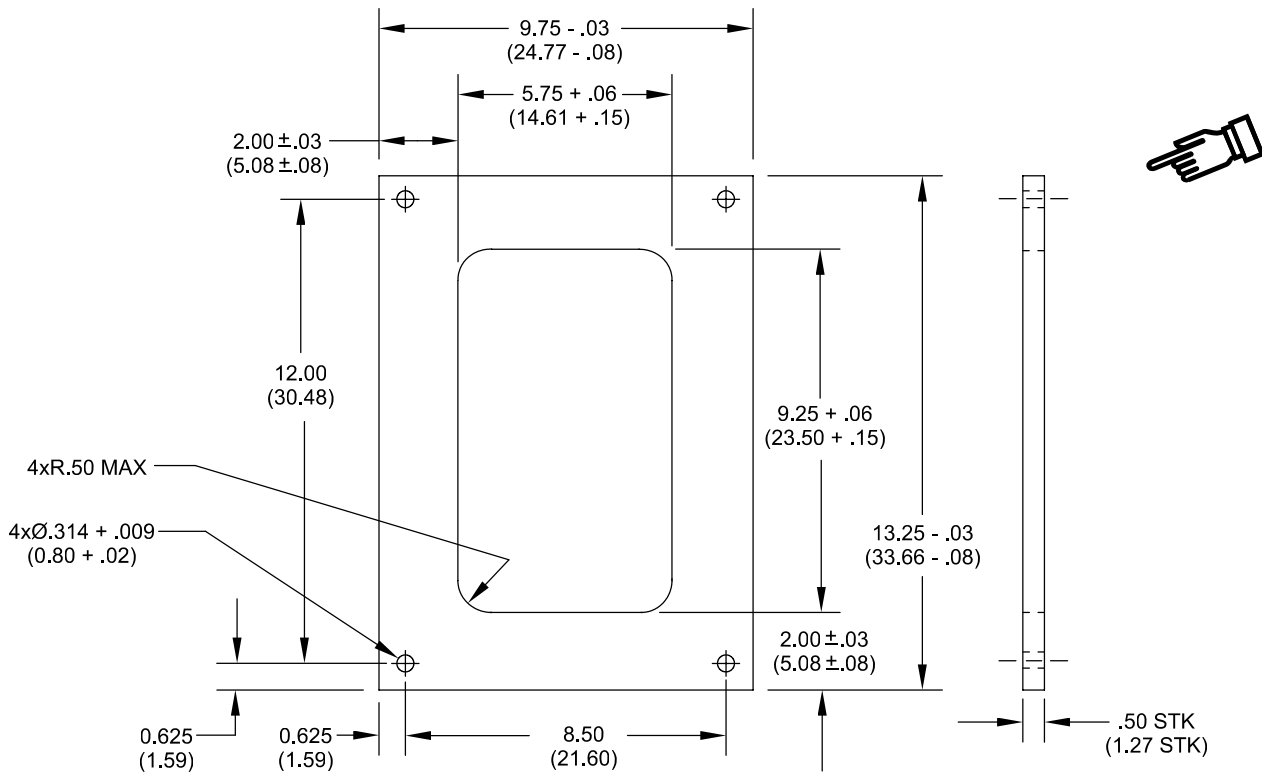
The inverter under test may be damaged if plug connections are not exactly as specified or if wires are shorted to the shell/other wires. Make sure wires are not pinched by the connector shell.

3. Position two captive screws (6) in the ears of shell (2). Install shell over connector (1) and secure with two screws (5) and nuts (4).

4. Fill opening at the rear of shell (2) with sealant (8).

5. Purpose of plug is to fault isolate the inverters to determine which one has failed.

Inverter Test Solo Plug (M1068A3 Only)



MATERIAL REQUIRED

Aluminum Alloy, Plate, .50 STK, 6061-T651, ASTM B209

NOTES:

1. Fabricate as illustrated.
2. All dimensions are in inches with metric conversion to centimeters in parentheses.
3. Break all sharp edges and corners.

PDA Mounting Template

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

0928 00

INTRODUCTION

Scope

This appendix lists expendable and durable items you will need to maintain your carrier. These items are authorized to you by CTA 50-970, *Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Items)*.

Explanation of Columns in the Expendable/Durable Items List

Column (1) — Item Number. This number is assigned to the entry in the listing, and is referenced in the Initial Setup section of the task under Materials/Parts to identify the item (e.g., “Automotive grease (Item 12)”).

Column (2) — Level. This column identifies the lowest level of maintenance that requires the listed item.
O — Unit Maintenance

Column (3) — National Stock Number. This is the National Stock Number (NSN) assigned to the item. Use it to request or requisition the item.

Column (4) — Description. Indicates the Federal item name and, if required, a description to identify the item. This column also includes the Commercial and Government Entity Code (CAGEC) and the part number for each item.

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 the requirements.

Table 1. Expendable and Durable Items List

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/M
1	O	5350-00-221-0872	ABRASIVE CLOTH (CROCUS) (81348) P-C-458	SH
2	O	5350-01-127-6855	ABRASIVE PAPER (GARNET) (80244) P-P-121 CL7	SH
3	O	8040-00-262-9026	ADHESIVE (80244) MMM-A-1617 TYII	PT
4	O	8040-00-664-4318	ADHESIVE (18876) 9995460	PT
5	O	8040-00-833-9563	ADHESIVE (RTV) (81349) MIL-A-46106 GP1 TY1	KT
6	O	8040-00-938-1535	ADHESIVE (RTV) (81349) MIL-A-46146 TY1	KT
7	O	8040-01-068-2423	ADHESIVE (94960) 2141PT	PT
8	O	8040-01-102-2098	ADHESIVE (80244) MMM-A-132 TY1 CL3	KT
8.1	O	8040-01-331-8047	ADHESIVE (81349) MIL-A-46106	TU
9	O	9150-00-985-7244	AIRCRAFT GREASE (GIA) (81349) MIL-G-23827	OZ

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST — Continued

0928 00

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/M
9.1	O	9150-00-145-0268	AIRCRAFT GREASE (81349) 001450268	CN
10	O	6850-00-181-7940	ANTIFREEZE (81349) MIL-A-46153	GL
11	O	8030-00-251-3980	ANTISEIZE COMPOUND (81349) MIL-A-907	LB
12	O	9150-01-197-7690	AUTOMOTIVE GREASE (GAA (81349) MIL-G-10924F	LB
13	O	8030-00-290-5141	BITUMINOUS COATING CMPD (81349) MIL-C-450	GL
14	O	8030-00-577-4740	CAULKING COMPOUND (81348) TT-C-1796	GL
14.1	O	5340-00-764-7051	CLAMP, LOOP (97403) 13207E5471FN43	EA
14.2	O	5340-00-057-2904	CLAMP, LOOP (97403) 13207E5471FN44	EA
14.3	O	5340-00-050-2740	CLAMP, LOOP (81348) 502740	EA
14.4	O	5340-01-514-1366	CLAMP, LOOP (19200) 12987806	EA
14.5	O	5340-00-088-1254	CLAMP, LOOP (80205) MS21333-104	EA
15	O	7920-00-044-9281	CLEANING CLOTH (51200) MIRACLEWIPEL001	LB
16	O	6850-00-227-1887	CLEANING COMPOUND (81349) MIL-C-43454	QT
17	O	6850-01-224-0098	CLEANING COMPOUND (81349) MIL-C-43616	GL
18	O	6850-01-244-3207	CLEANING COMPOUND, SOLVENT (59557) 134 HI-SOLV	DR
19	O	6850-01-277-0595	CLEANING COMPOUND, SOLVENT (59557) 134 HI-SOLV	GL
20	O	8305-00-267-3015	CLOTH (CHEESECLOTH) (81348) CCC-C-440	YD
21	O	8030-00-082-2425	COATING COMPOUND (81349) MIL-C-8514	KT
22	O	----	CORROSION INHIBITING CMPD (20418) BOESHIELD T-9	OZ

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST — Continued

0928 00

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/M
23	O	4940-00-106-4770	CORROSION KIT (81349) MIL-K-81576	EA
24	O	8030-00-244-1299	CORROSION PREVENTIVE CMPD (81349) MIL-C-16173	GL
25	O	8030-00-823-8039	CORROSION RESISTANT COATING (99442) IRIDITE14ALCOAT	GL
26	O	8030-01-330-2504	CORROSION RESISTANT COATING (80244) MIL-C-81706 CL3	PT
27	O	9150-00-189-6727	ENGINE LUB OIL (OE/HDO-10) (81349) MIL-L-2104	QT
28	O	9150-01-152-4119	ENGINE LUB OIL (OE/HDO-15/40) (81349) MIL-L-2104	DR
29	O	9150-00-402-4478	ENGINE LUB OIL (OEA) (81349) MIL-L-46167	QT
30	O	8010-01-313-8702	EPOXY COATING KIT (81349) MIL-C-22750	KT
31	O	4020-00-270-8673	FIBROUS TWINE (81348) TR605	FT
32	O	9150-01-035-5390	GEAR LUB OIL (GO-75) (81349) MIL-L-2105	QT
33	O	9150-00-231-2361	GENERAL LUB OIL (PL-M) (81349) MIL-L-3150	QT
34	O	9150-00-231-9062	GENERAL LUB OIL (PL-S) (81348) VVL800	GL
35	O	7930-00-531-9715	GENERAL PURPOSE DETERGENT (81349) MIL-D-16791	GL
36	O	5110-00-277-4588	HACKSAW BLADE (10 INCH BLADE) (54940) 31-51024	EA
	O	5110-01-304-9706	HACKSAW BLADE (12 INCH BLADE) (46200) 602250	EA
37	O	9150-00-111-6256	HYDRAULIC FLUID (FRH) (81349) MIL-H-46170 TYI	QT
38	O	5970-00-935-4941	INSULATING COMPOUND (81349) MIL-I-46058	GL
39	O	5970-00-816-6056	INSULATING TAPE (81348) HH-I-595-B-108-0	FT
40	O	8010-01-165-6760	LACQUER THINNER (81349) MIL-T-81772	GL

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST — Continued

0928 00

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/M
41	O	9150-00-754-2595	MOLYBDENUM D GREASE (GMD) (81349) MIL-G-21164	LB
42	O	9505-00-293-4208	NONELECTRICAL WIRE (96906) MS20995C32	LB
42.1	O	9505-00-555-8648	NONELECTRICAL WIRE (96906) MS20995C47	SL
43	O	4720-00-177-0672	NONMETALLIC HOSE (19207) 11662996	FT
44	O	8020-00-297-6657	PAINT BRUSH (81348) H-B-491	EA
45	O	8010-00-292-1127	PRIMER COATING (81348) TT-P-664	GL
46	O	9320-00-272-2990	RUBBER ADHESIVE TAPE (81349) MIL-T-6841	FT
47	O	8030-00-081-2326	SEALING COMPOUND (05972) 078-21	CC
48	O	8030-00-081-2339	SEALING COMPOUND (05972) 088-21 MIL-S-22473 GRA	CC
49	O	8030-00-152-0013	SEALING COMPOUND (FUEL) (80244) MIL-S-8802 TY2 CLB-2	OZ
50	O	8030-00-080-2171	SEALING COMPOUND (52152) EC800	QT
51	O	8030-00-174-2598	SEALING COMPOUND (03956) P1896694-3	KT
52	O	8030-00-252-3391	SEALING COMPOUND (81349) MIL-S-45180 TY2	OZ
53	O	8030-00-275-8110	SEALING COMPOUND (81349) MIL-S-11031	KT
54	O	8030-00-656-1426	SEALING COMPOUND (62377) MIL-S-45180 TY3	PT
55	O	8030-00-753-5004	SEALING COMPOUND (83574) PR-1440 B-1/2	OZ
56	O	8030-01-166-0675	SEALING COMPOUND (05972) 567-47	EA
56.1	O	8030-01-014-5869	SEALING COMPOUND (05972) 24231	BT
57	O	8030-00-900-2373	SEALING COMPOUND PRIMER (05972) 764-55	OZ

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST — Continued

0928 00

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/M
58	O	6850-00-880-7616	SILICONE COMPOUND (81349) MIL-S-8660	OZ
59	O	6850-00-927-9461	SILICONE COMPOUND (81349) MIL-C-47113	OZ
60	O	6810-00-264-6618	SODIUM BICARBONATE (81349) O-S-576	LB
61	O	9150-00-250-0926	TECHNICAL PETROLATUM (81348) VV-P-236	LB
61.1	O	5975-01-431-3403	STRAP, TIEDOWN, ELECTRICAL COMPONENTS (06383) SSC4H-S25-D0	HD
61.2	O	5975-00-984-6582	STRAP, TIEDOWN, ELECTRICAL COMPONENTS (81343) MS3367-1-0	HD
61.3	O	5975-01-480-2229	STRAP, TIEDOWN, ELECTRICAL COMPONENTS (06383) PLT3H-TL100	HD
62	O	3439-00-453-5472	TIN ALLOY SOLDER (81348) SN60WRMAP2 0.0361LB	LB
63	O	5610-00-267-1533	WALKWAY COMPOUND (81349) MIL-W-5044 TYII	GL
64	O	9150-00-292-9689	WEAPONS LUB OIL (LAW) (81349) MIL-L-14107	QT
65	O	7920-00-205-1711	WIPING RAG (58536) A-A-2522	LB
66	O	9150-00-530-6814	WIRE ROPE GREASE (81349) MIL-G-18458	LB

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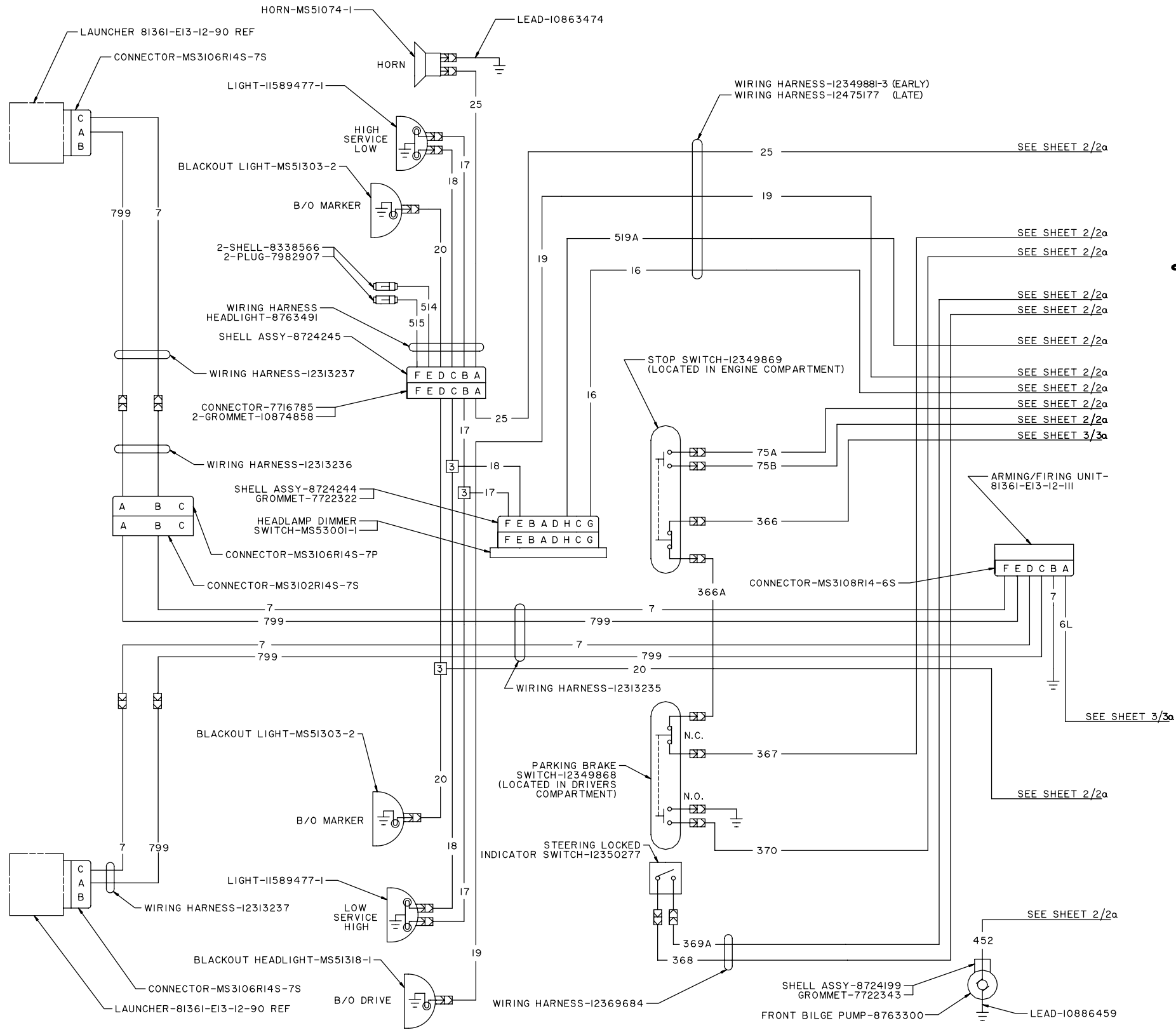
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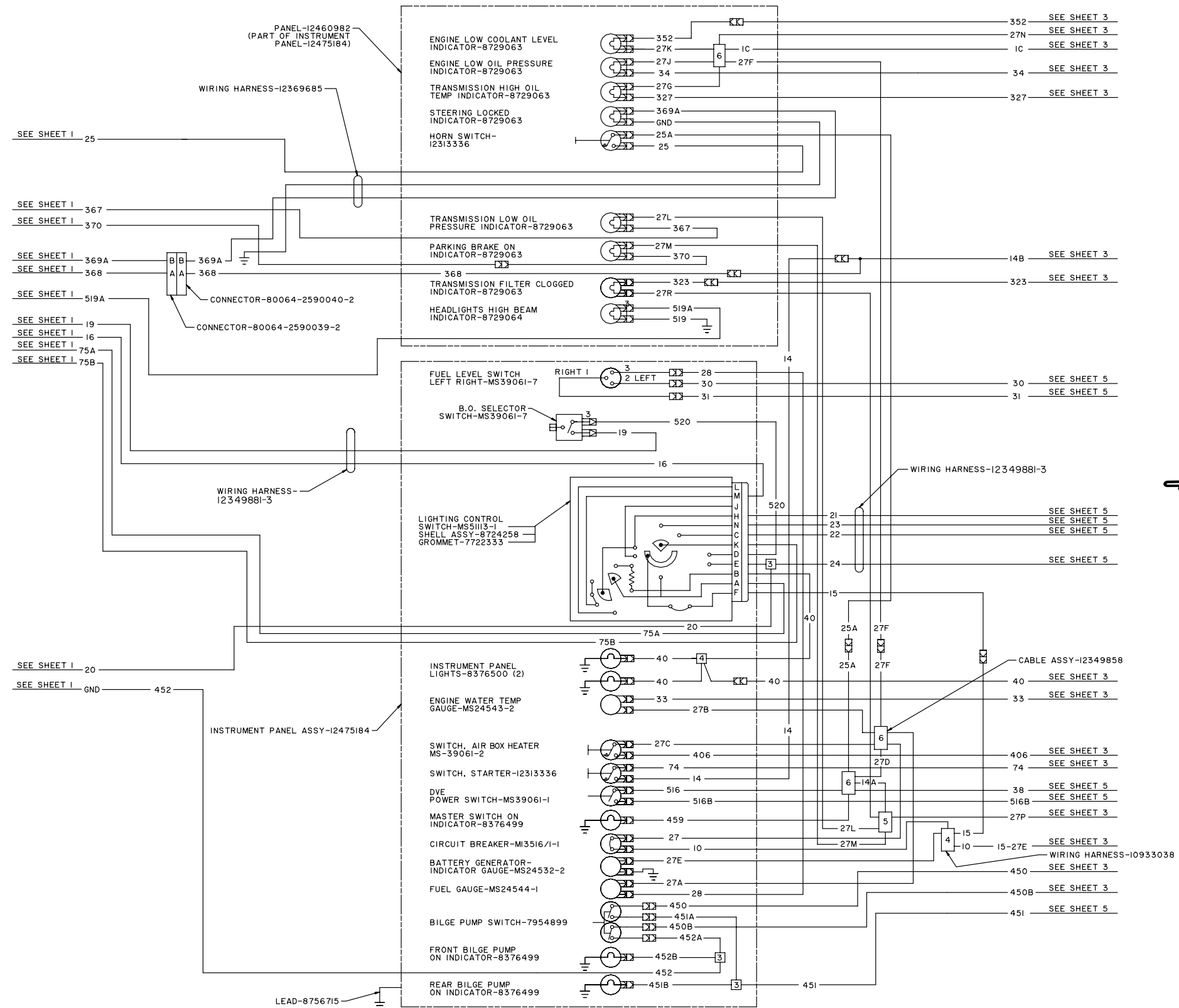
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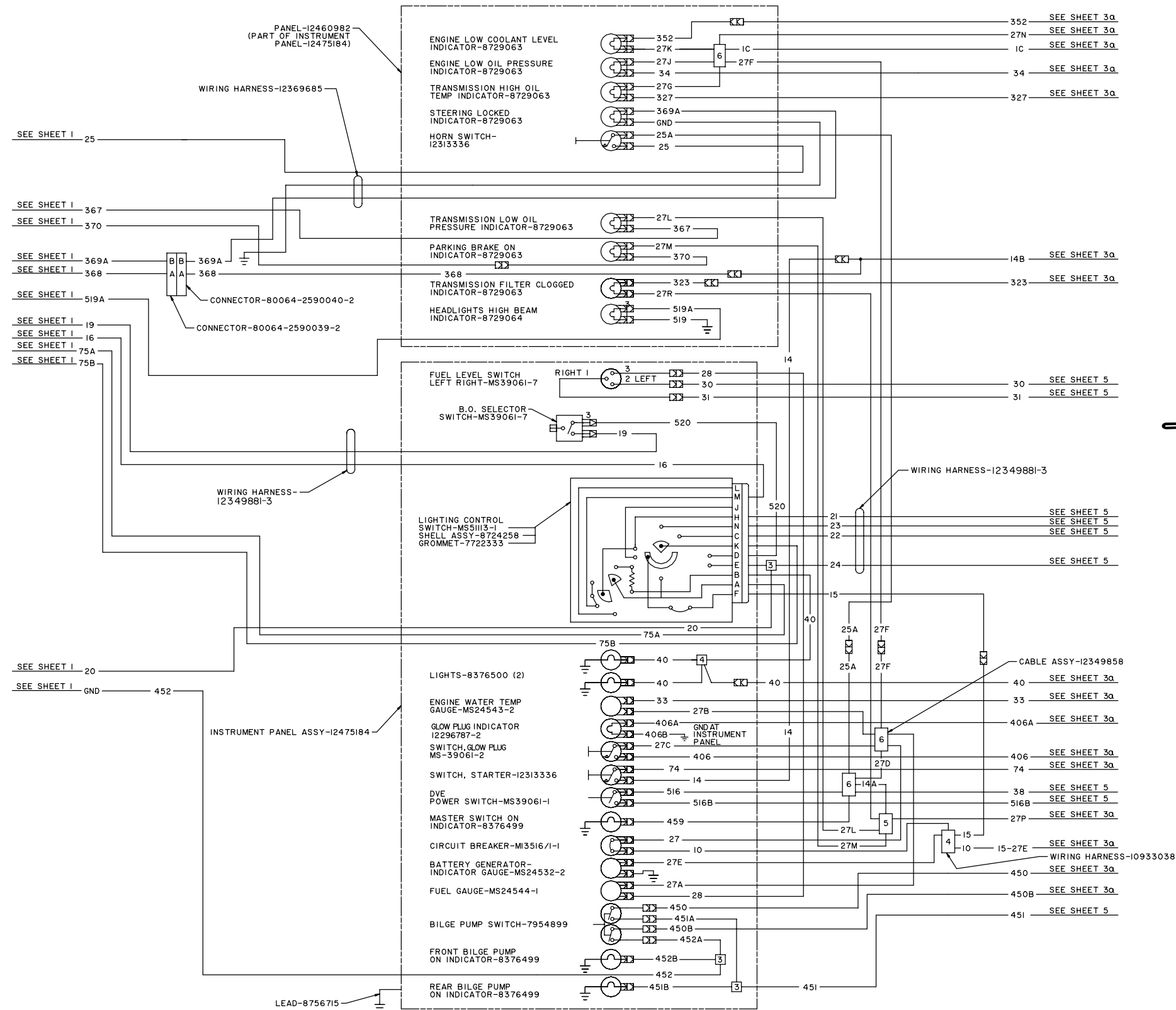
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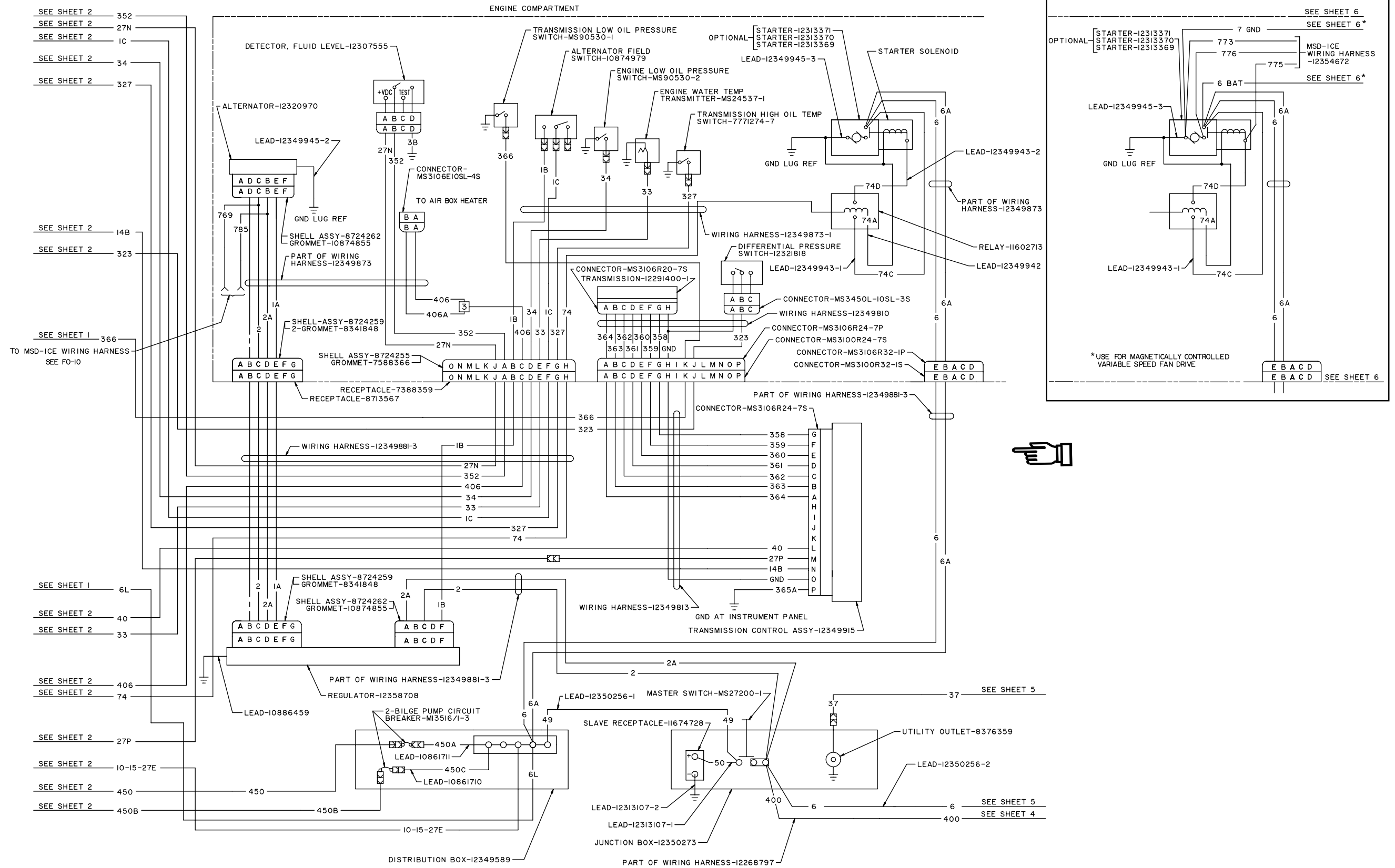
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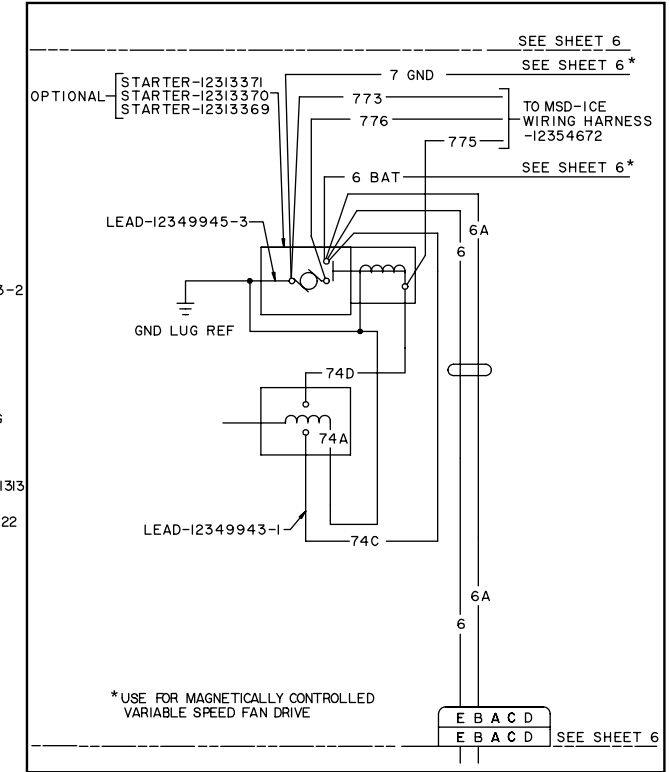
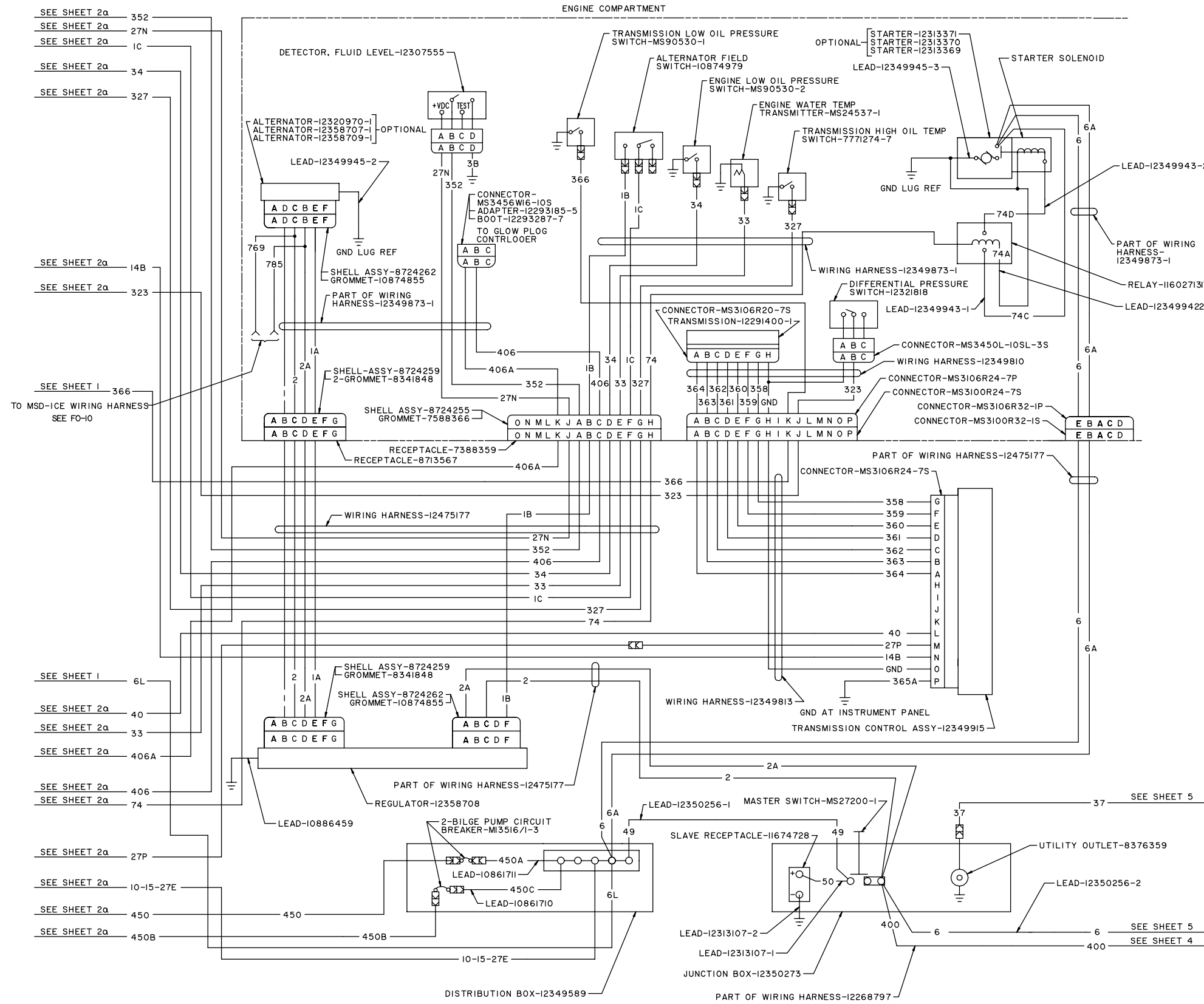
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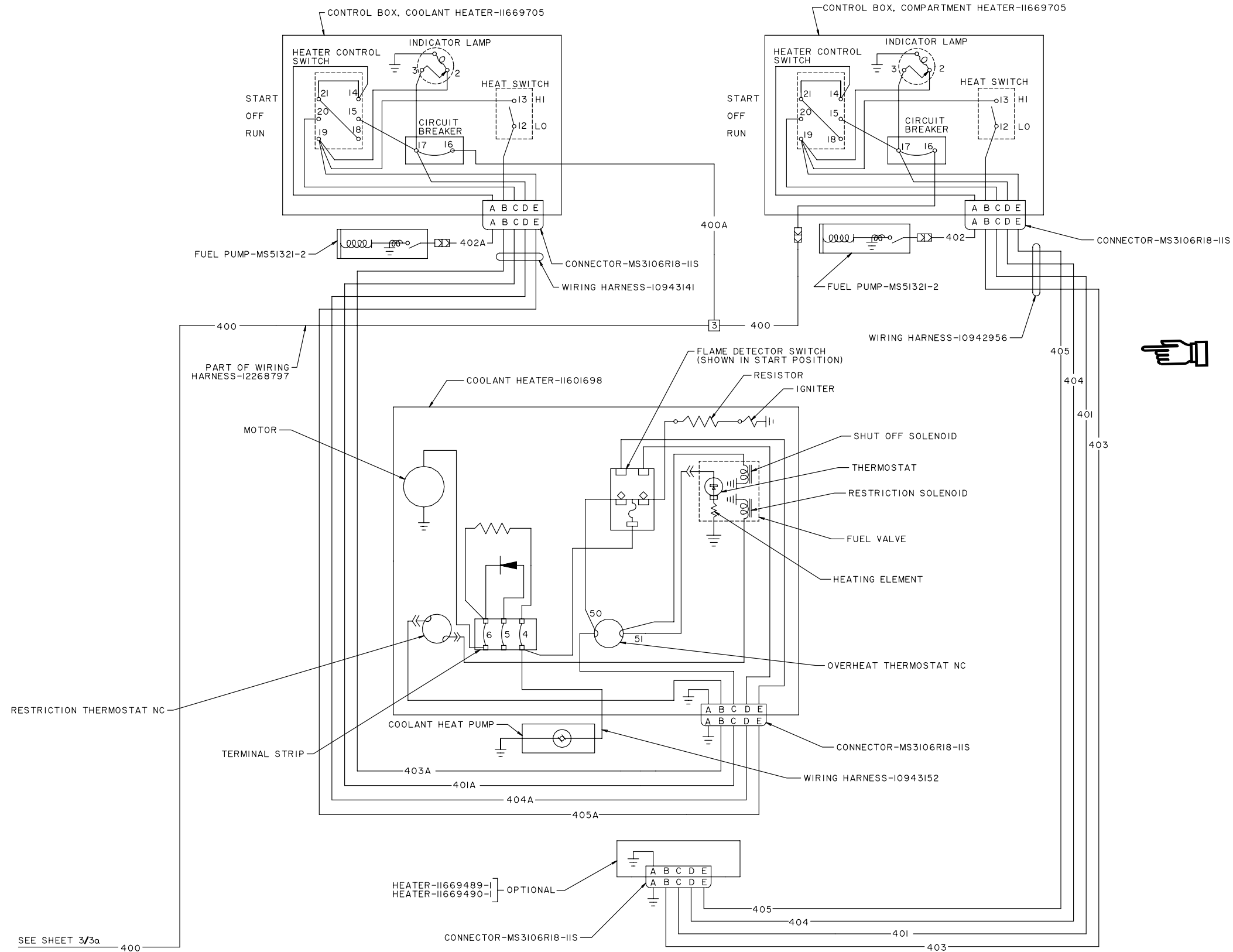


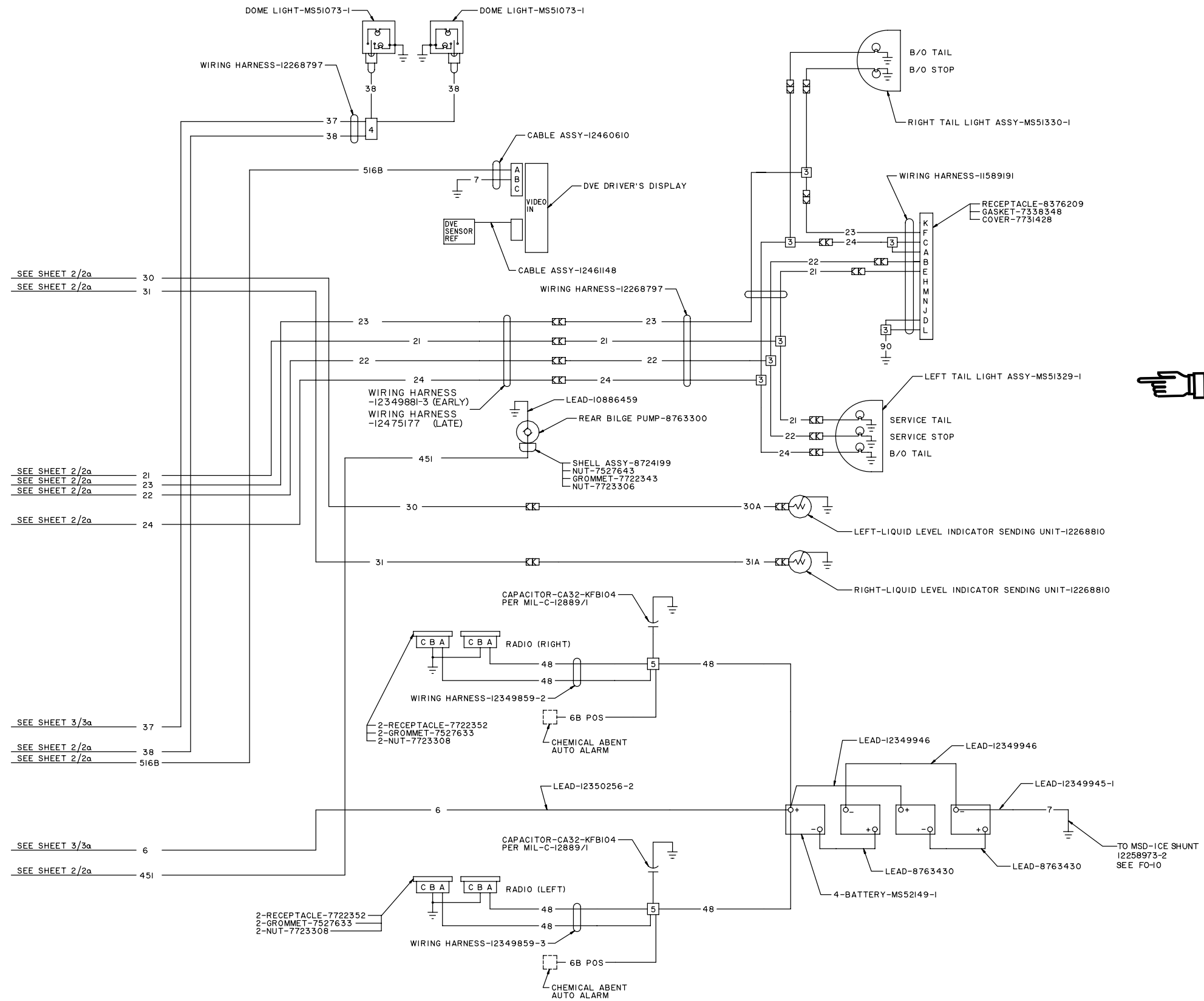


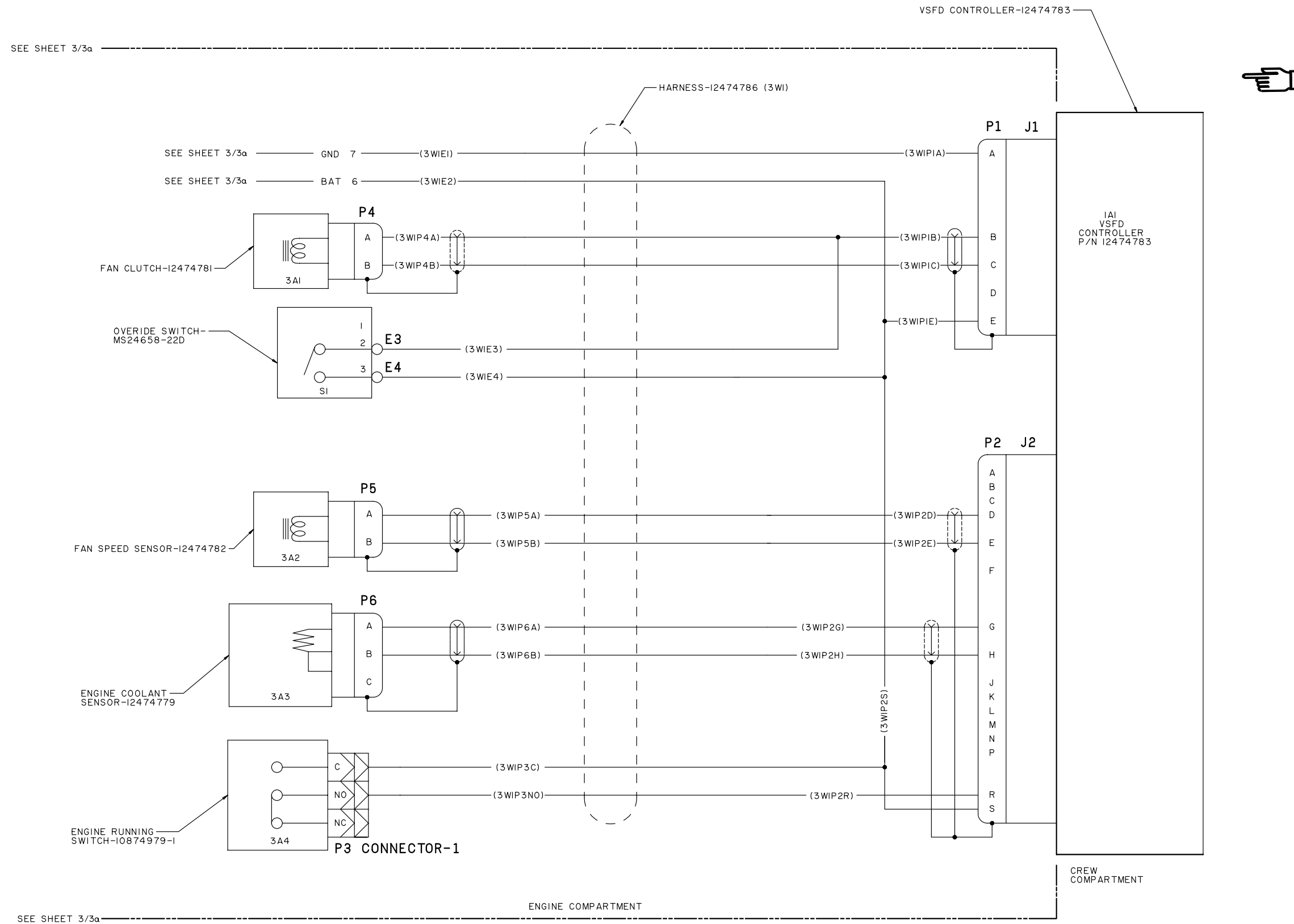


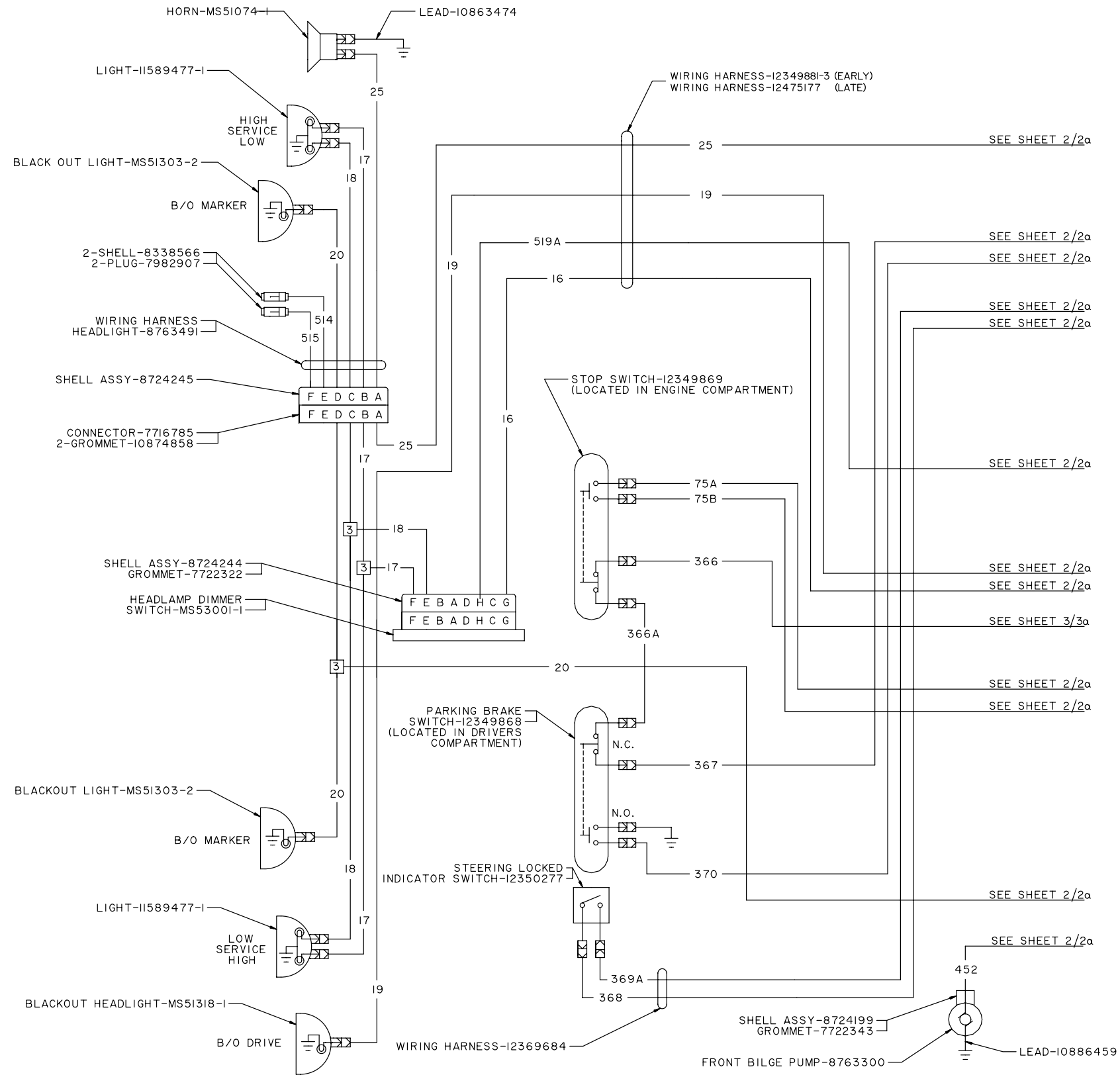


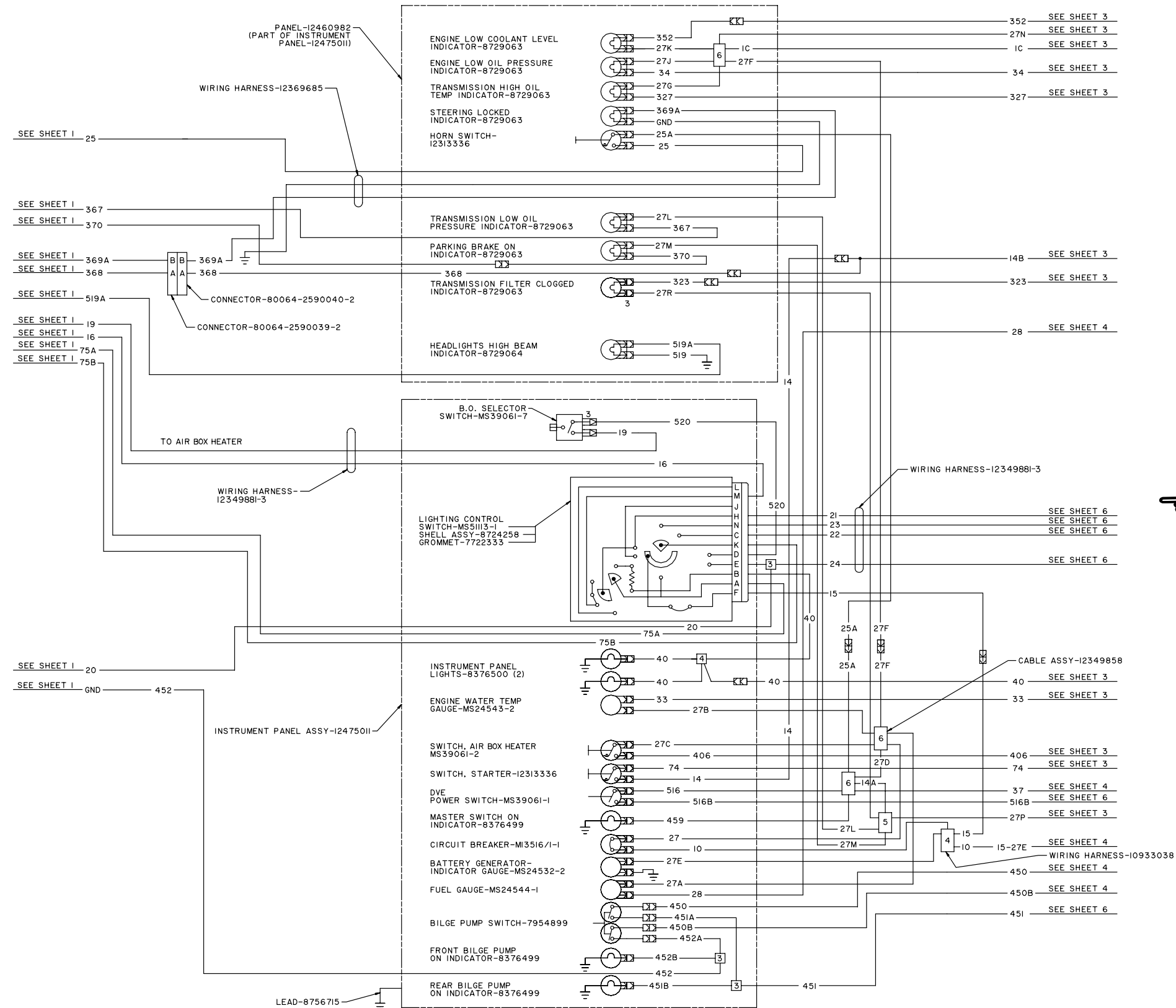


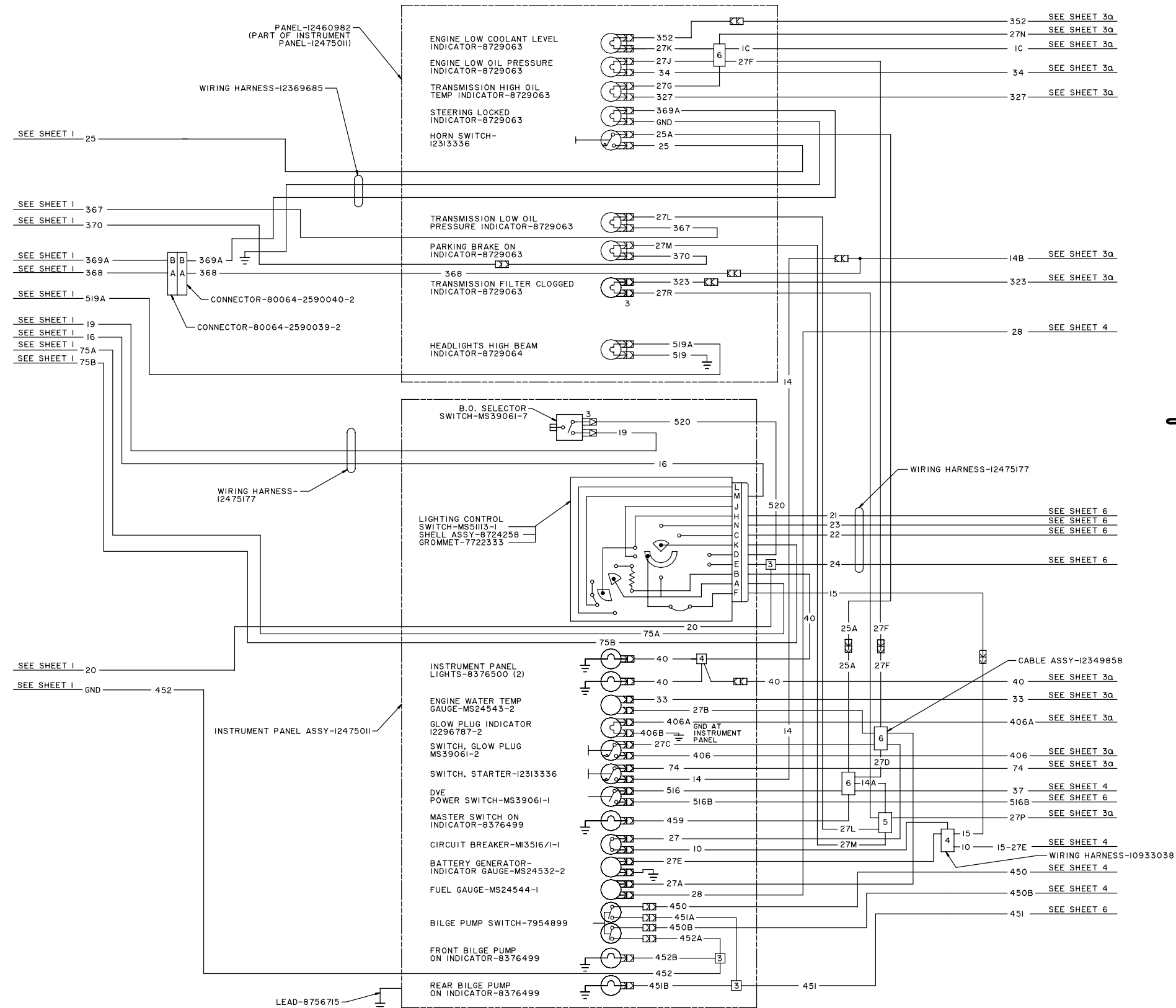


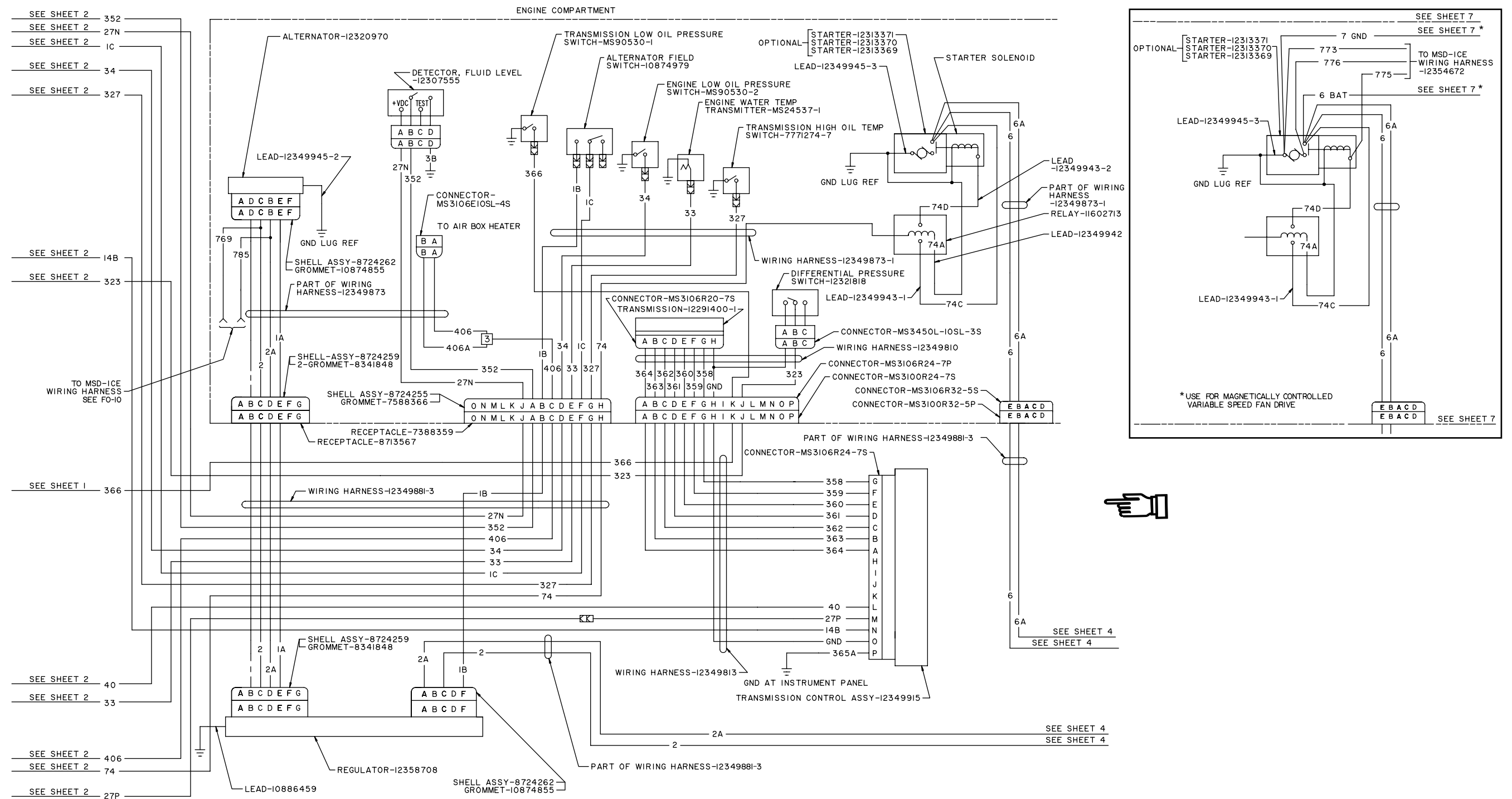


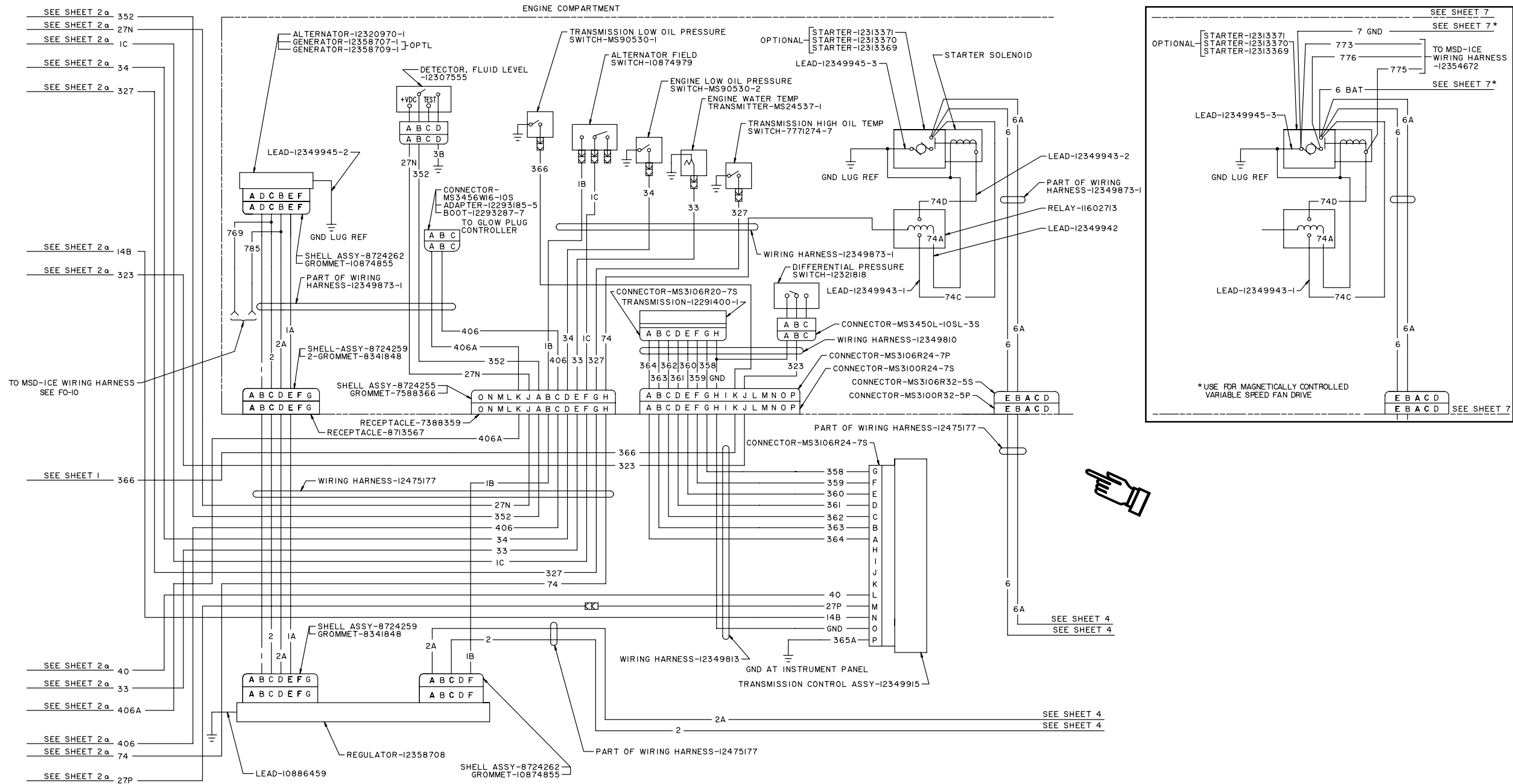


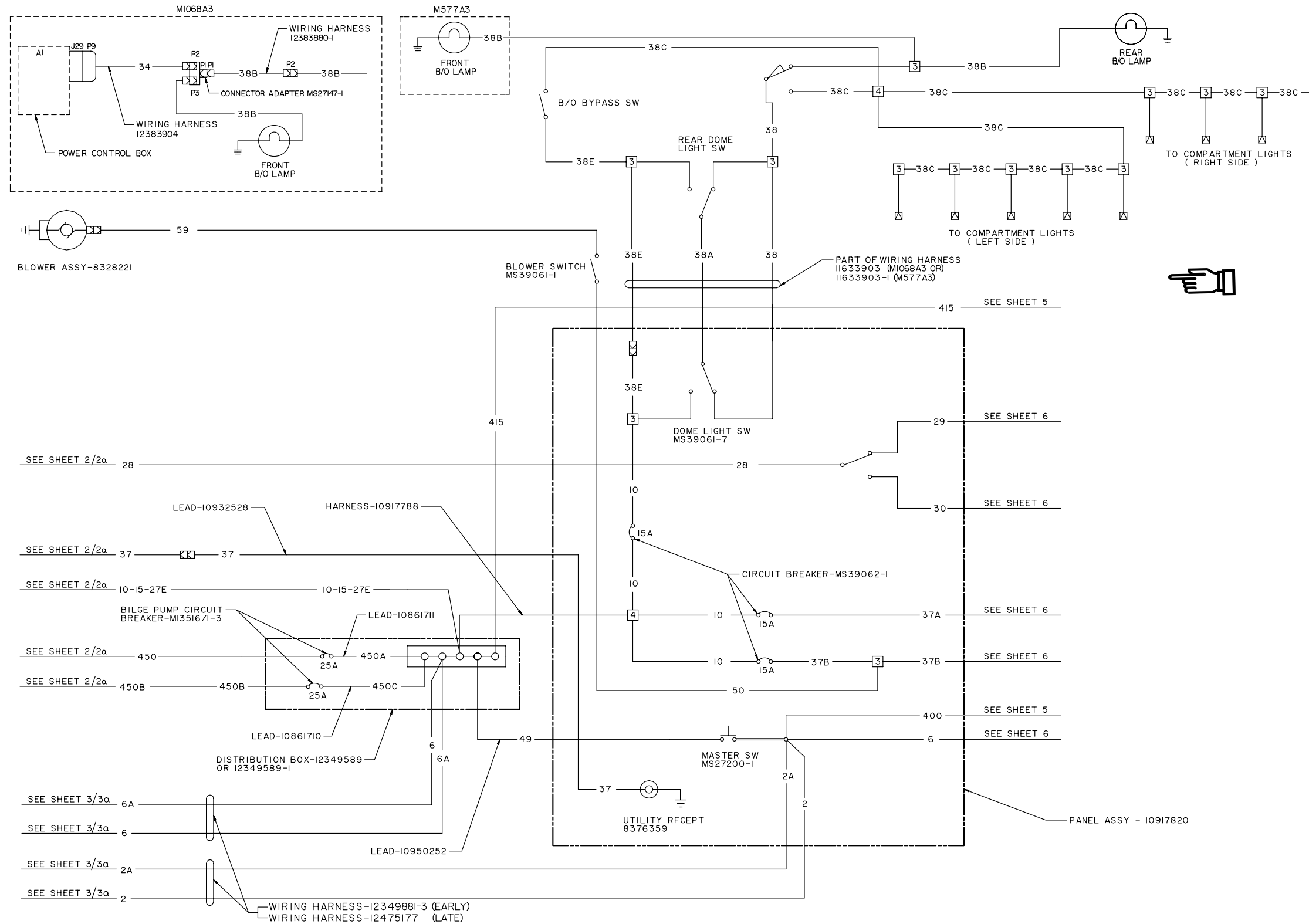


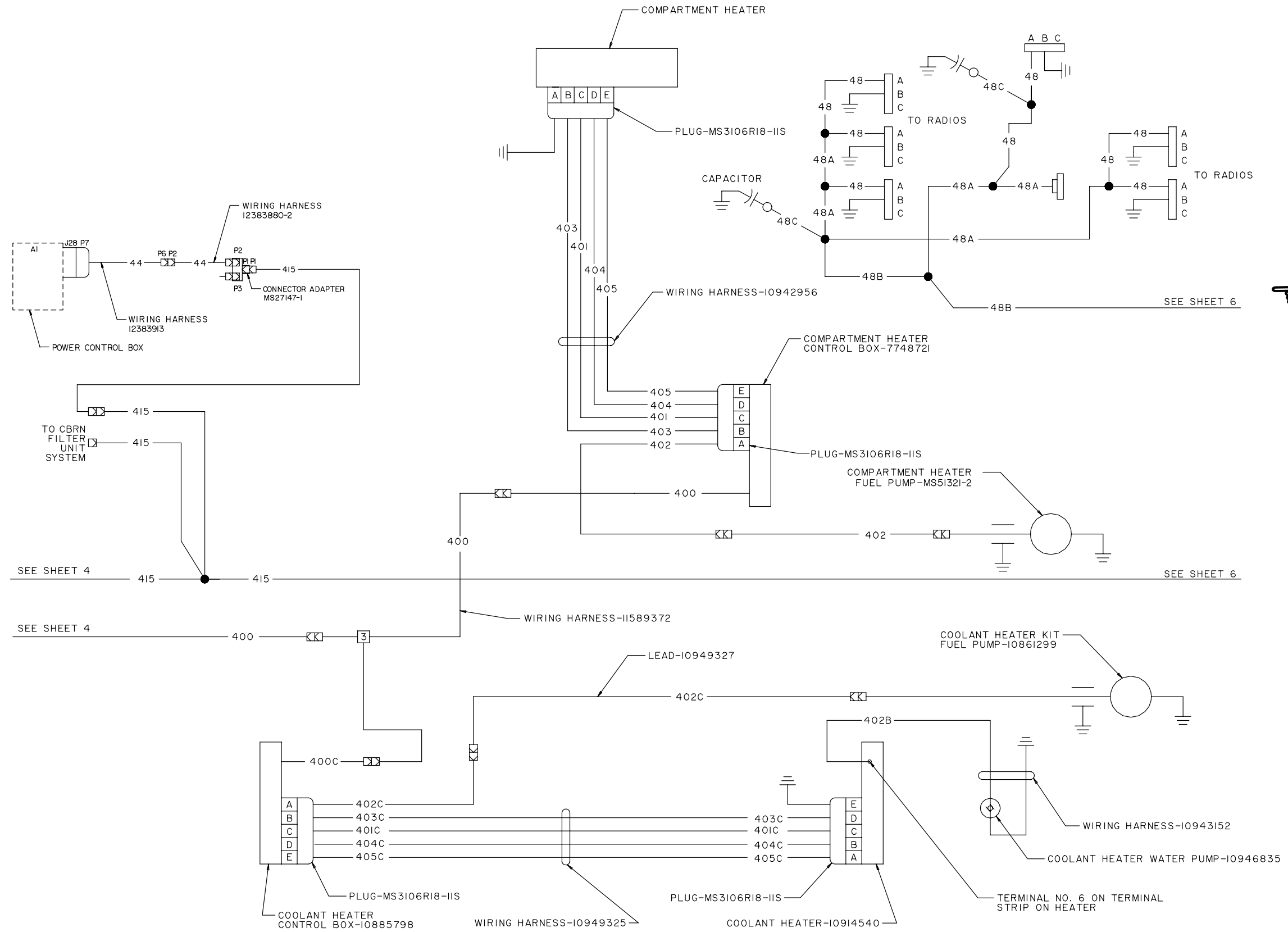


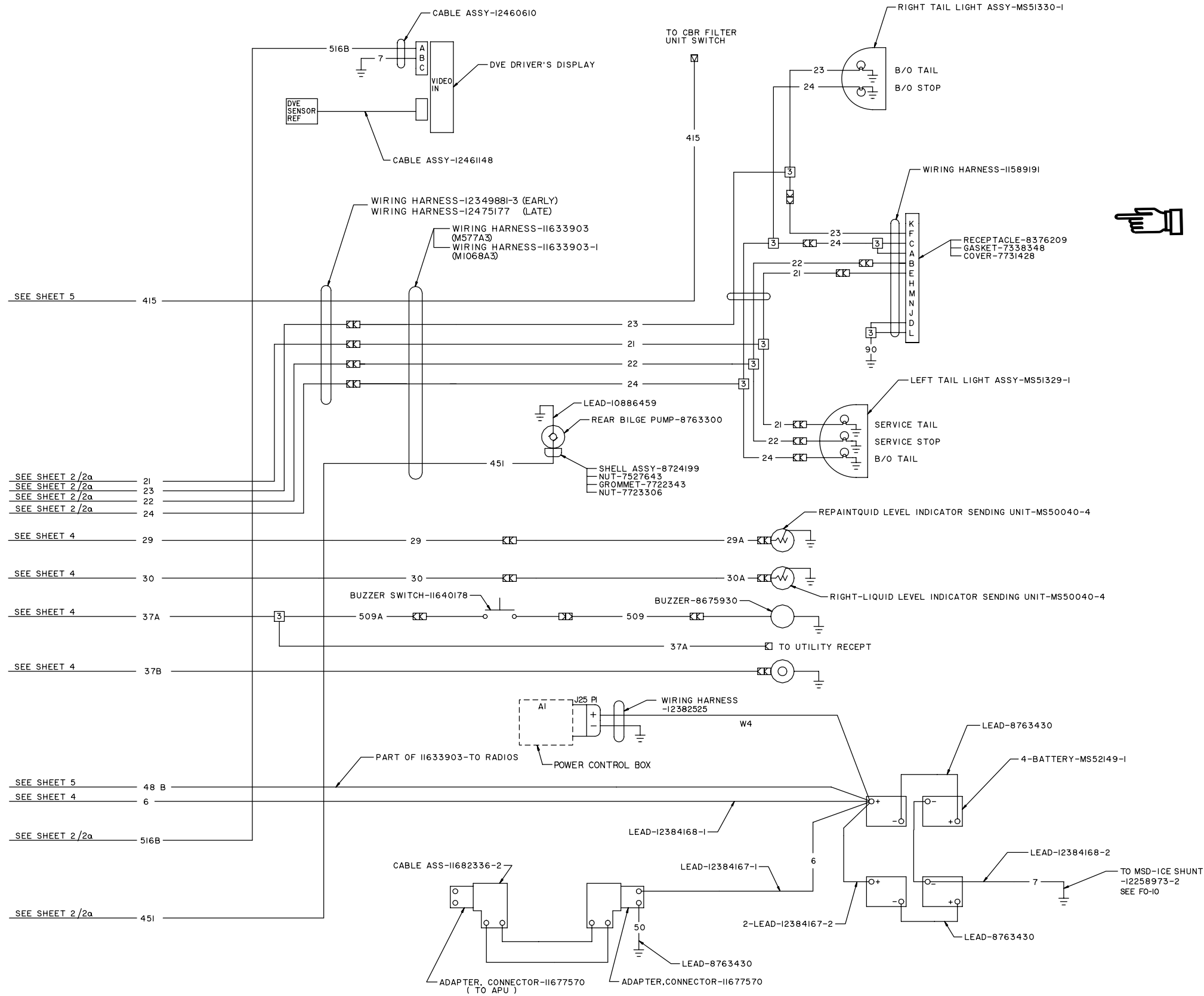


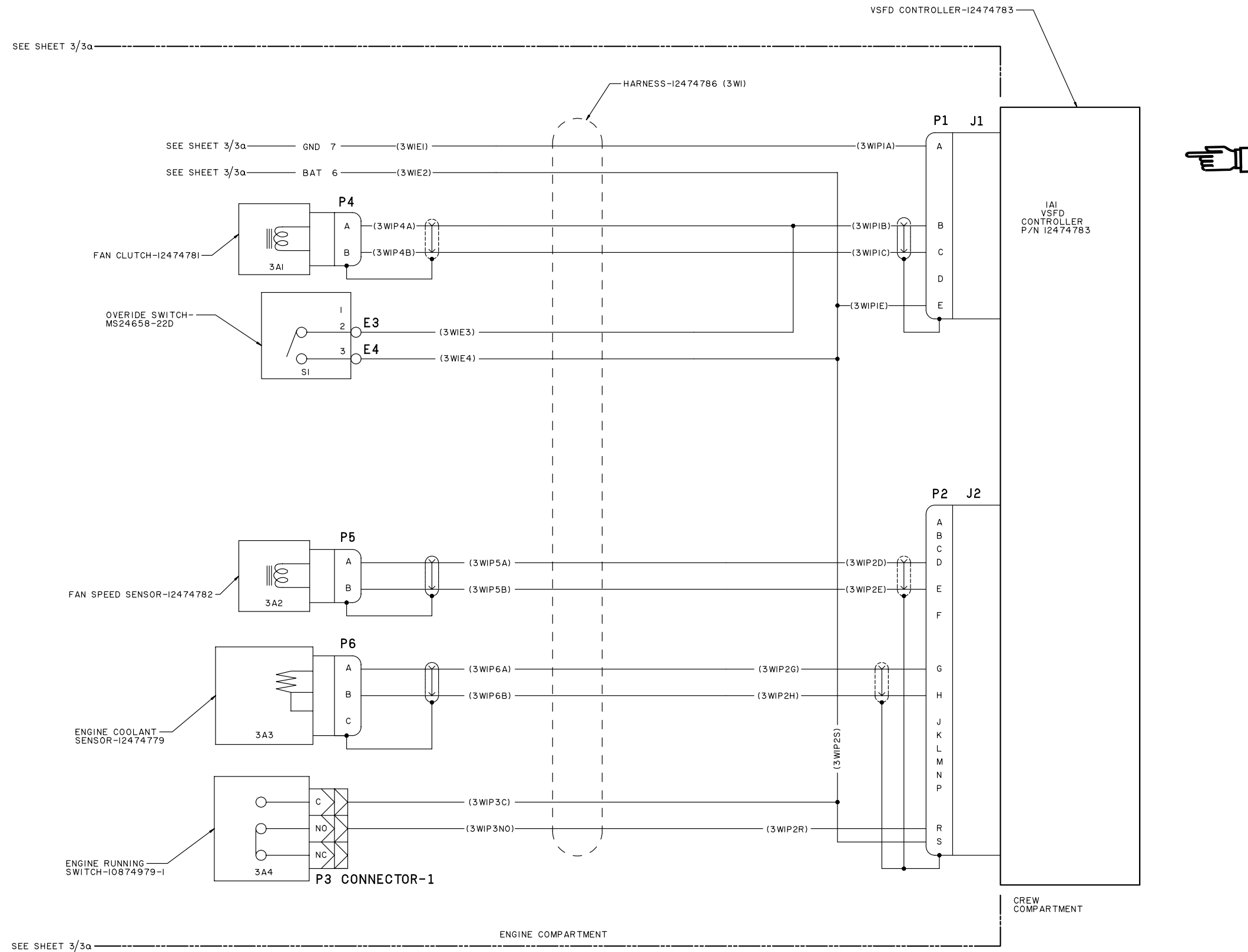


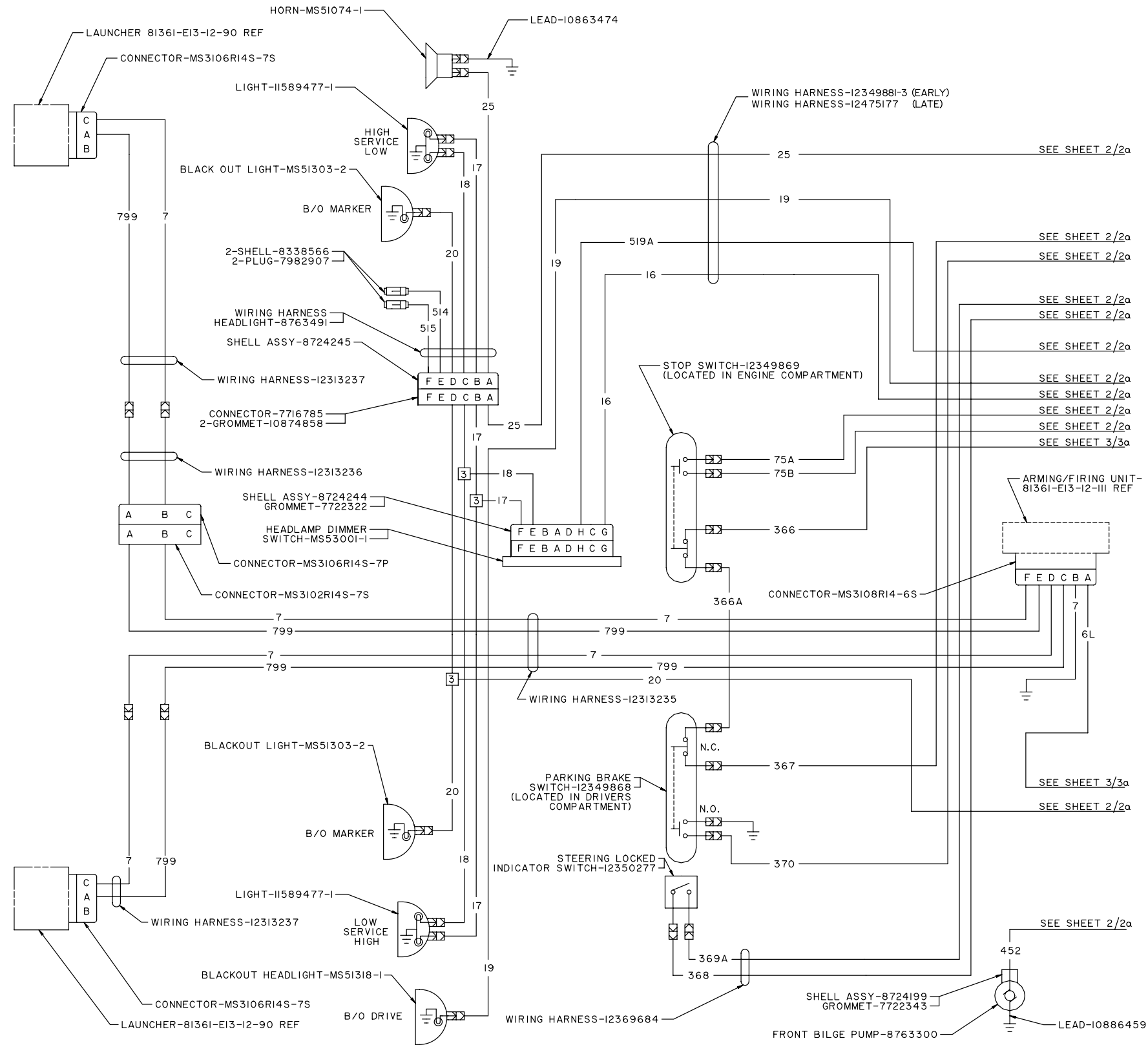


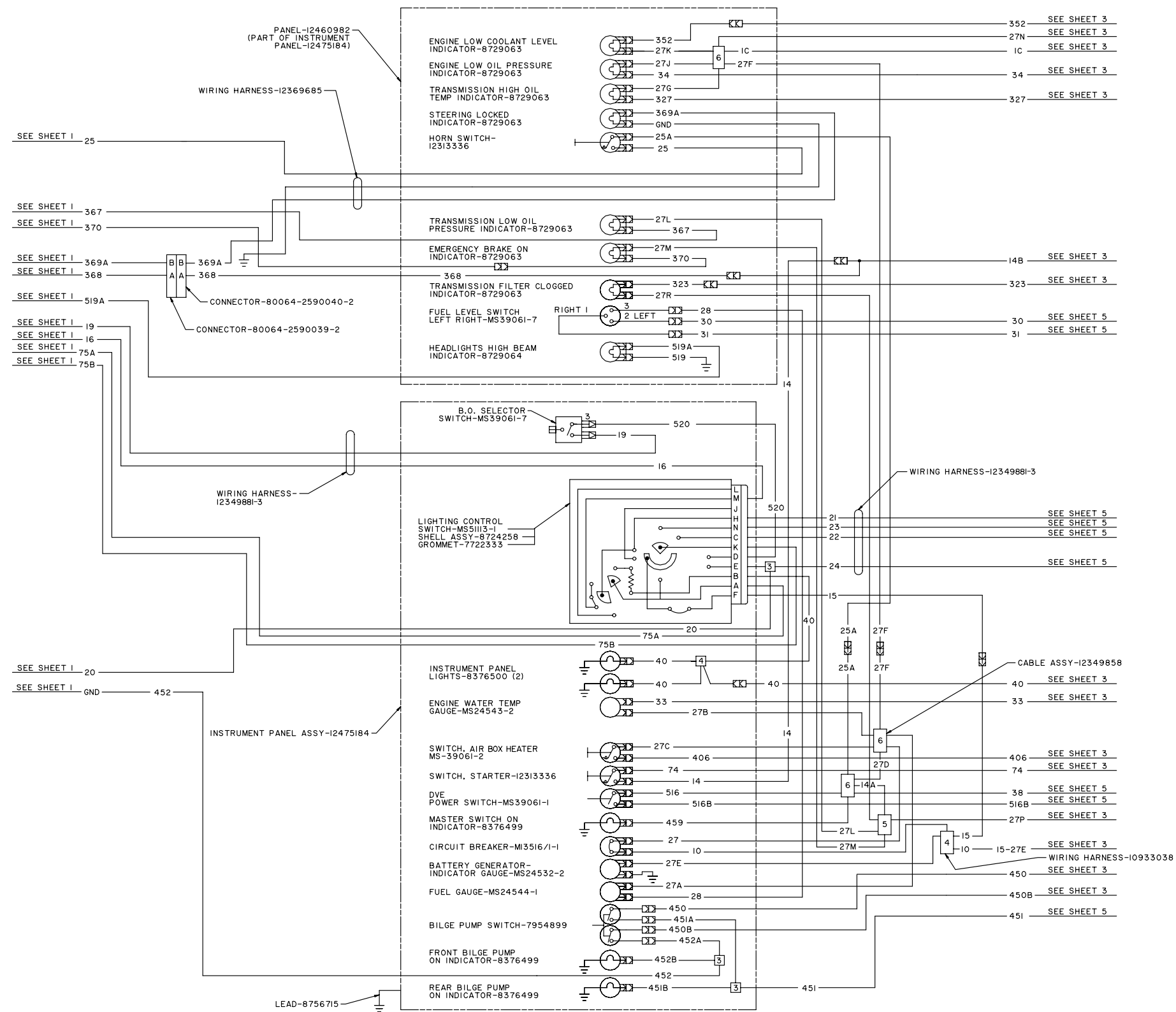


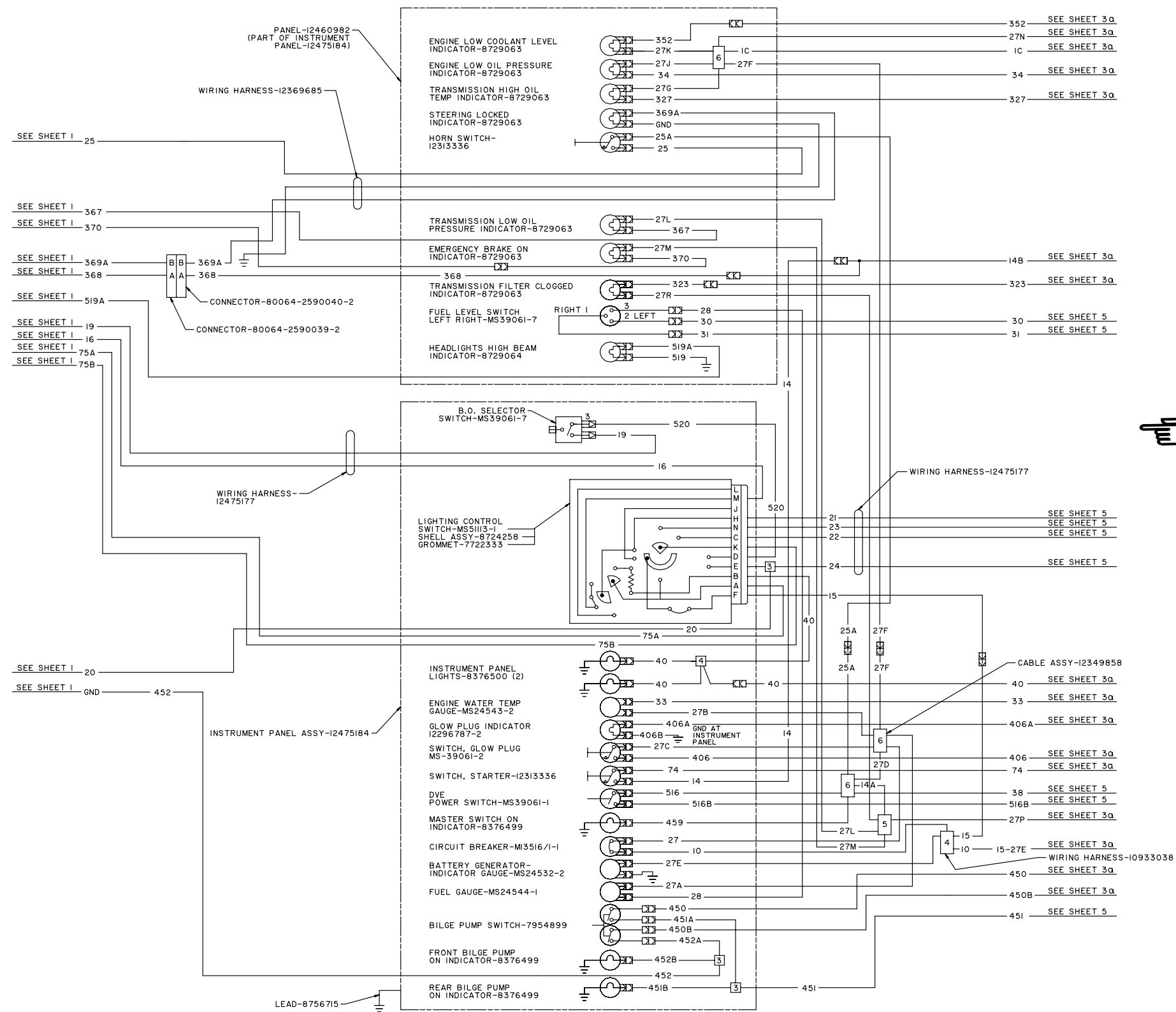


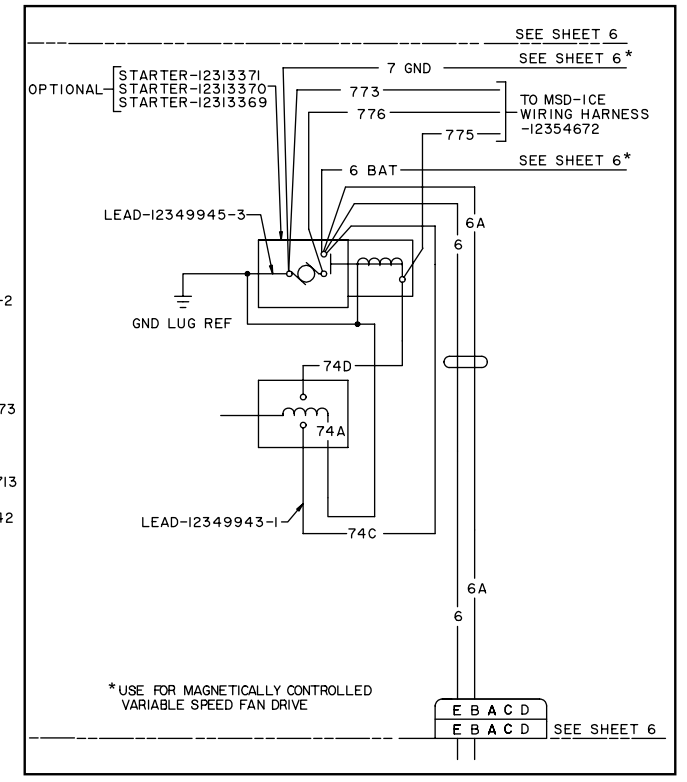
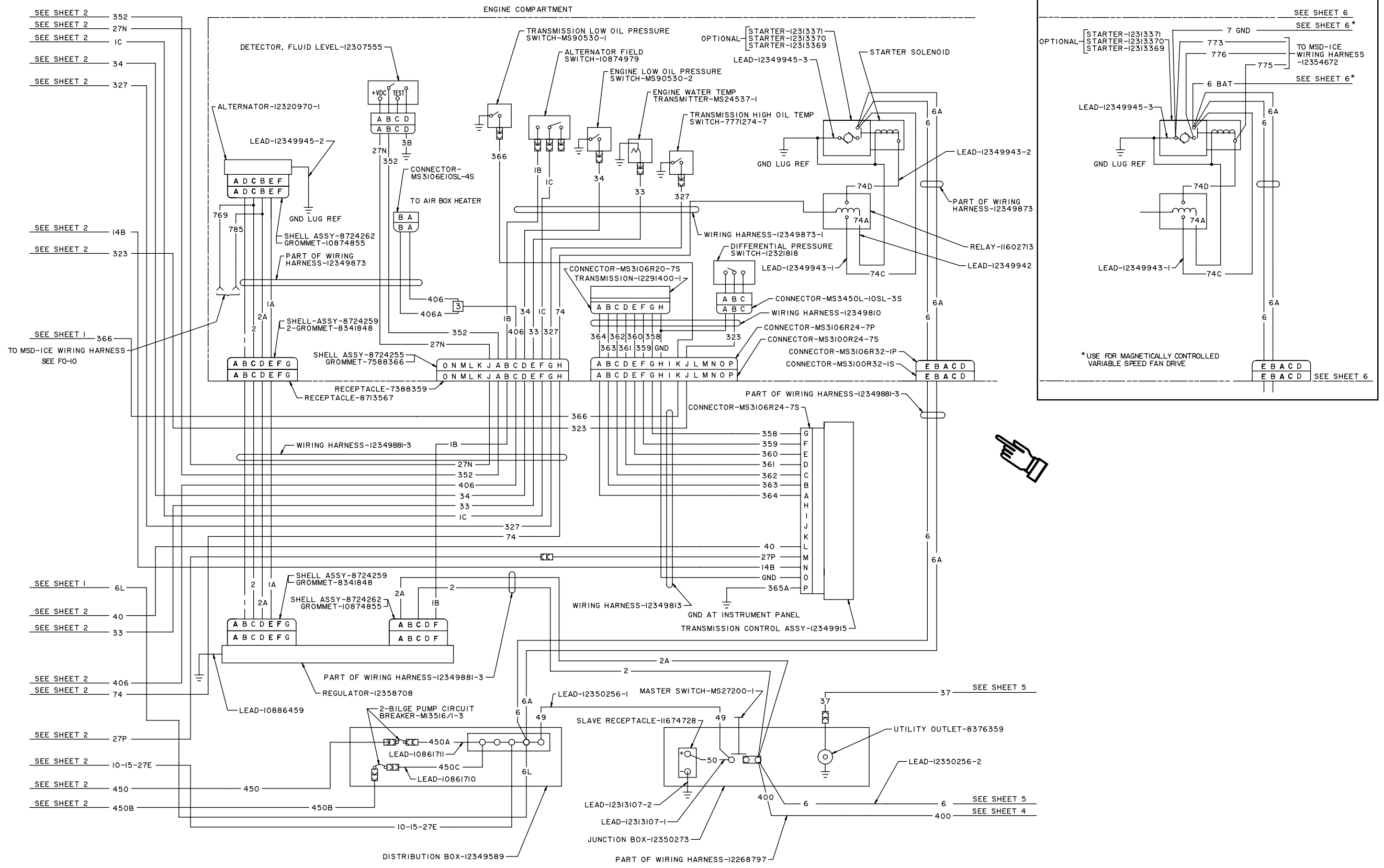


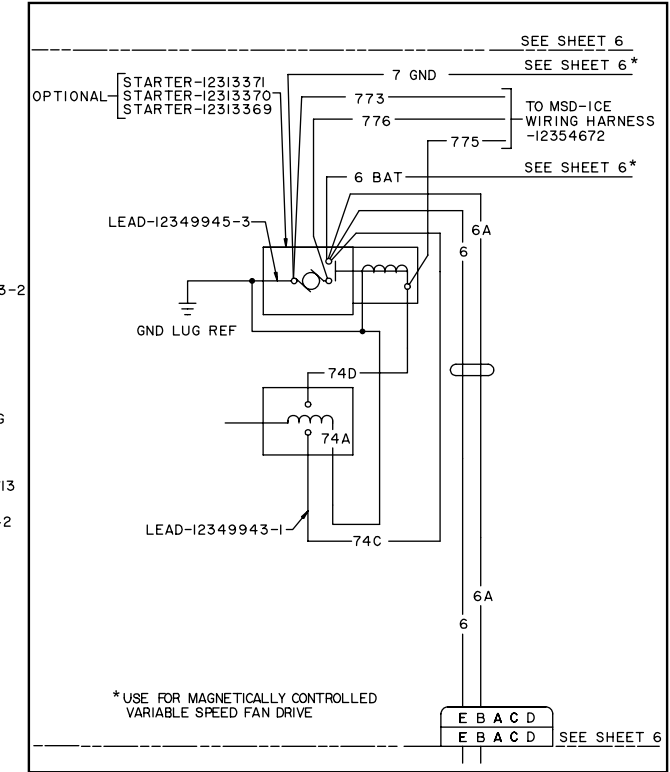
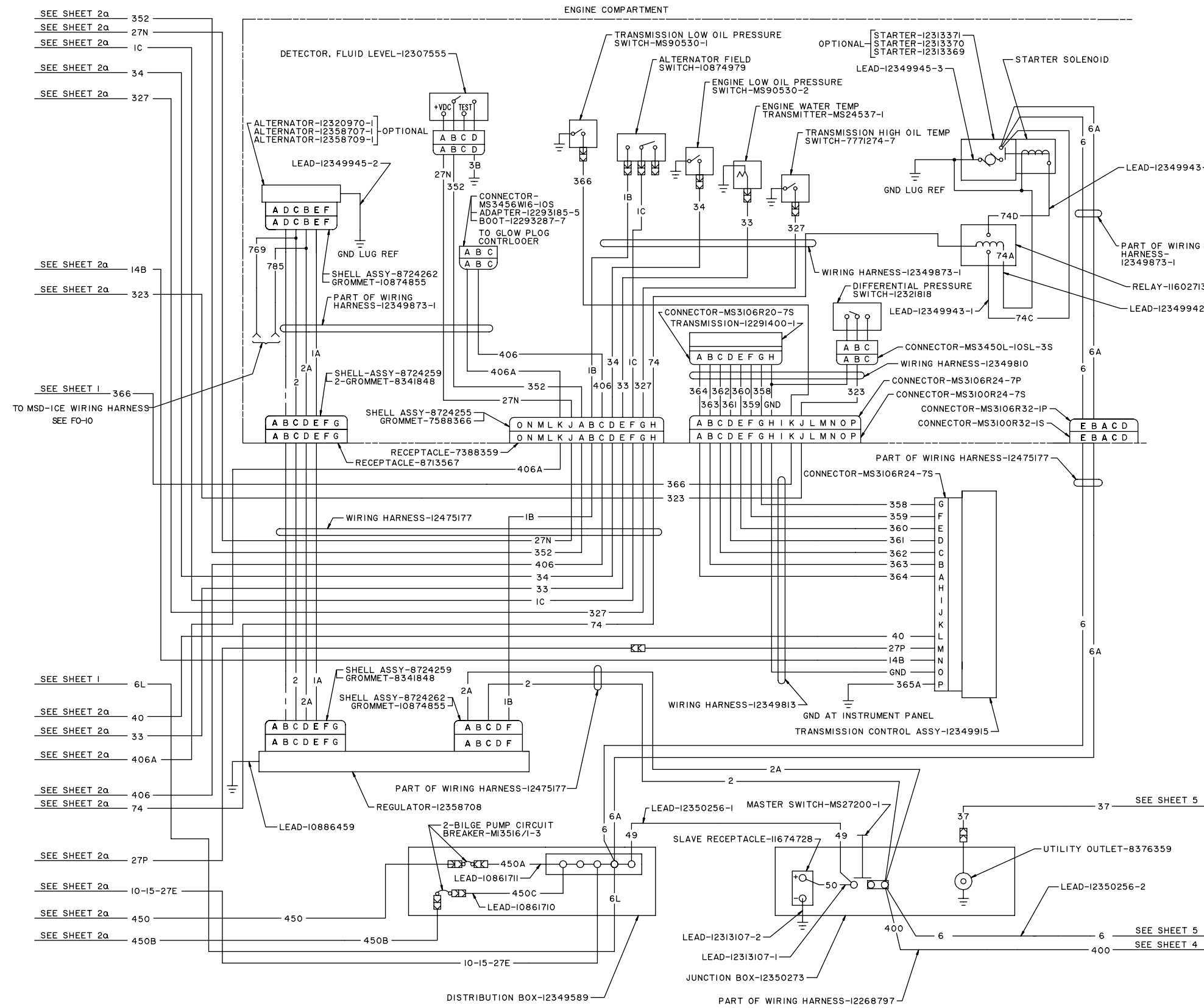


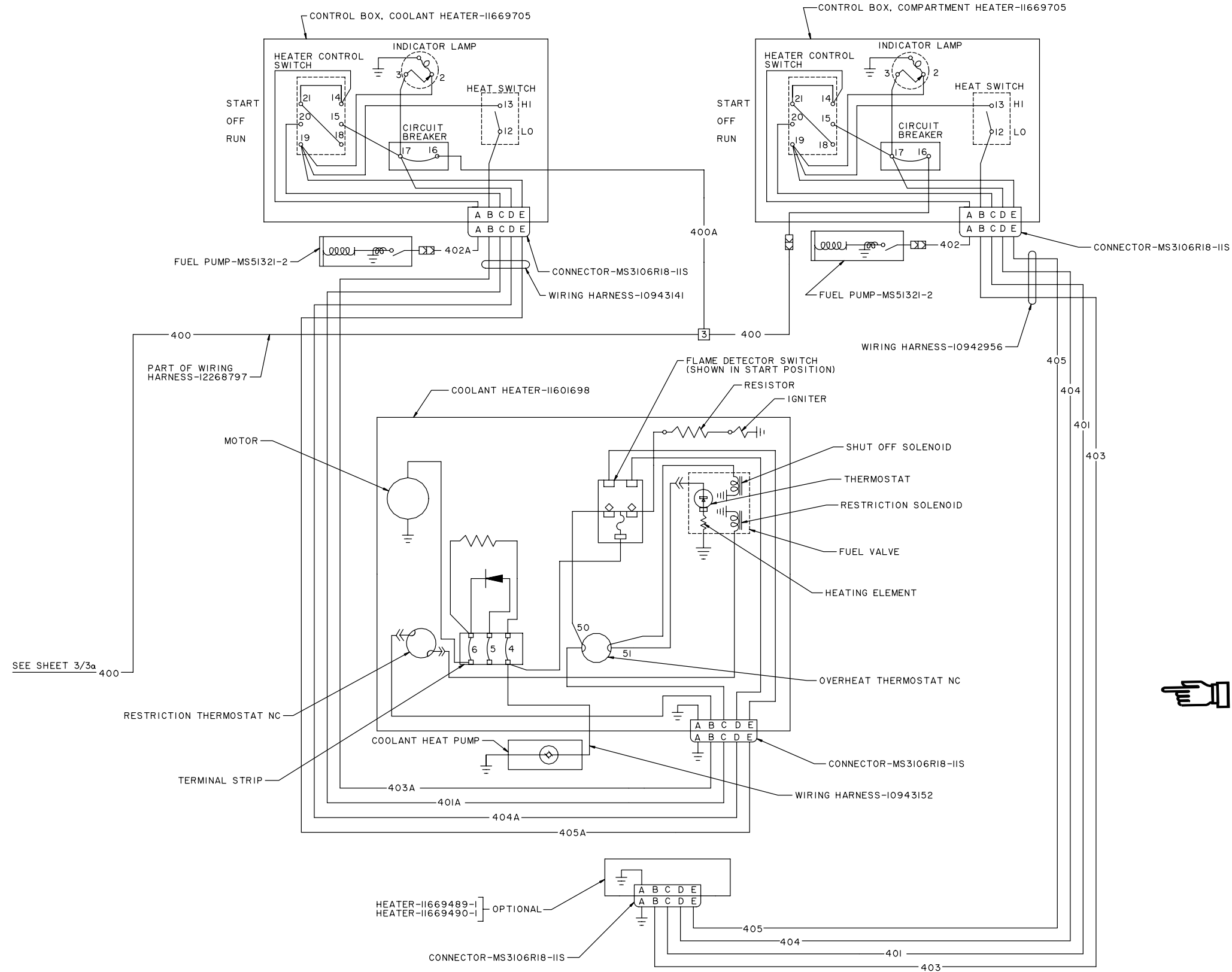


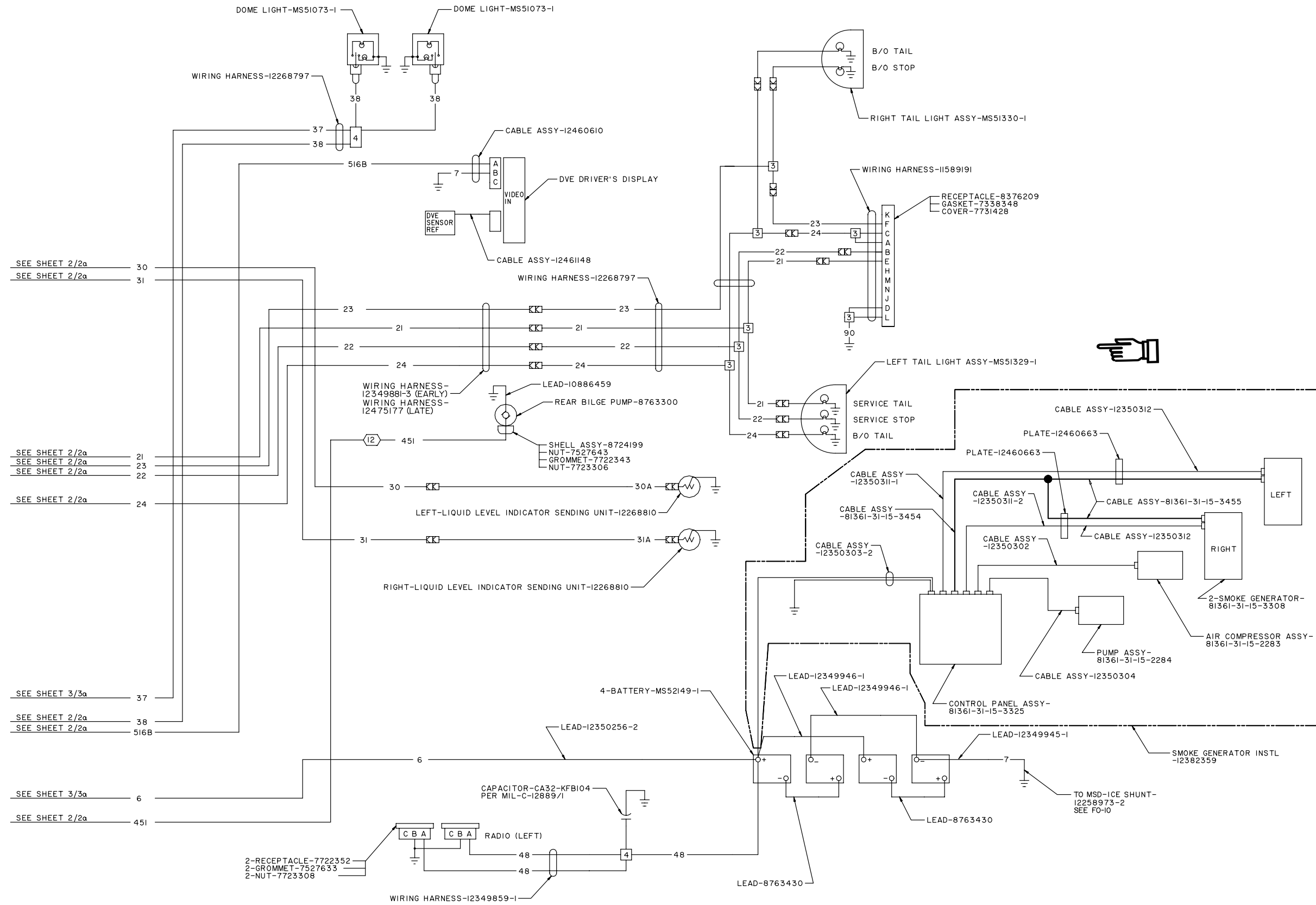


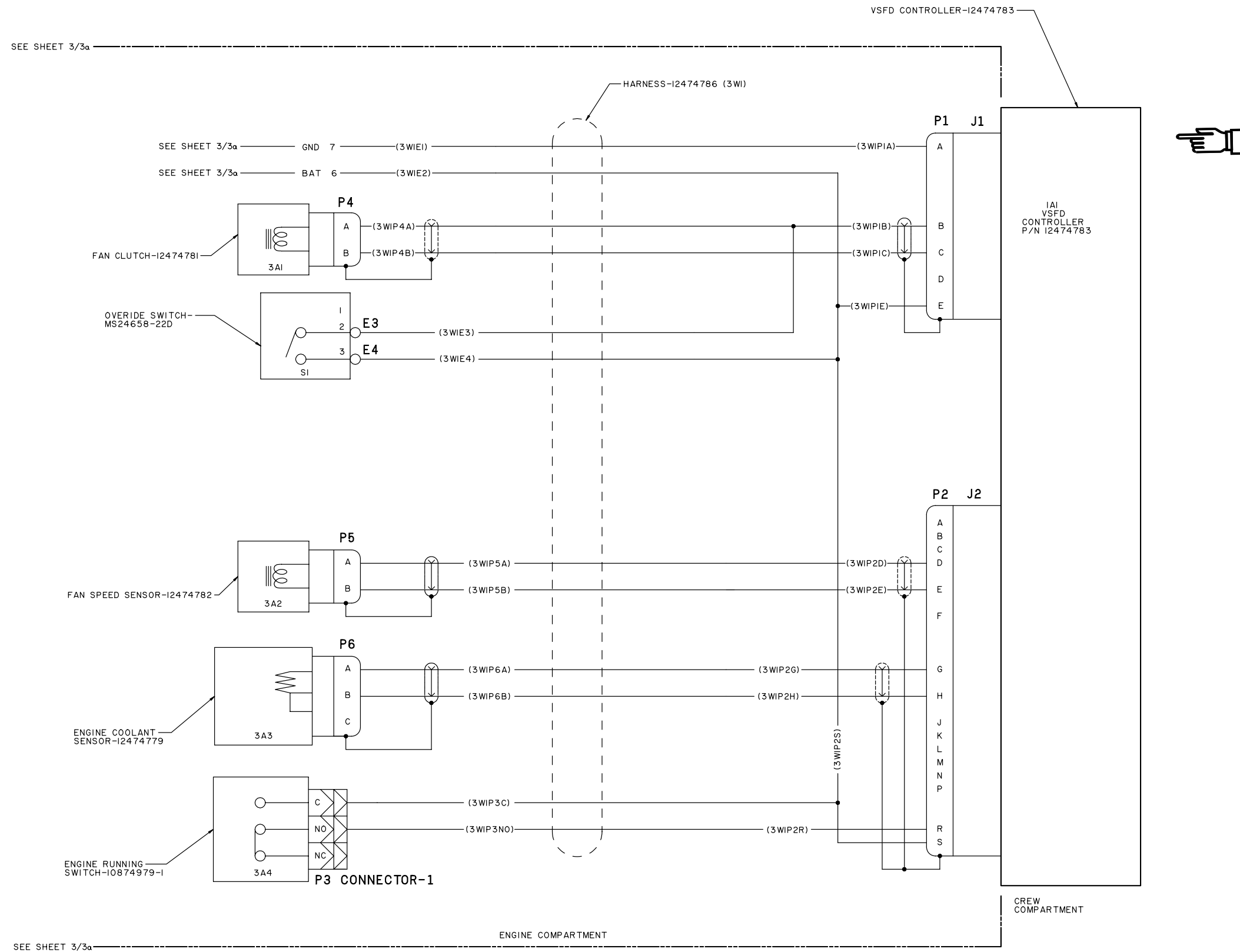


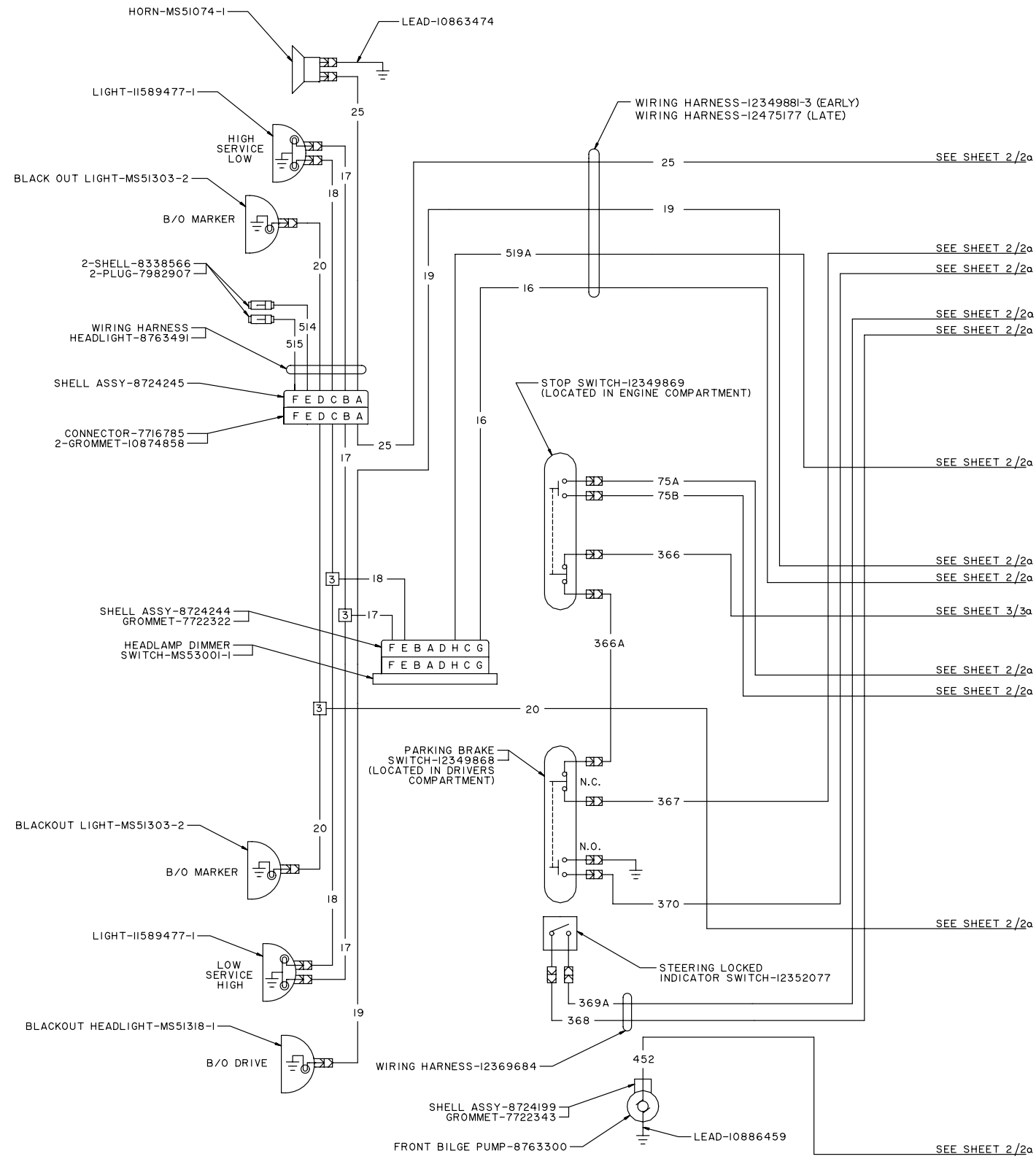


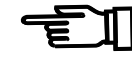
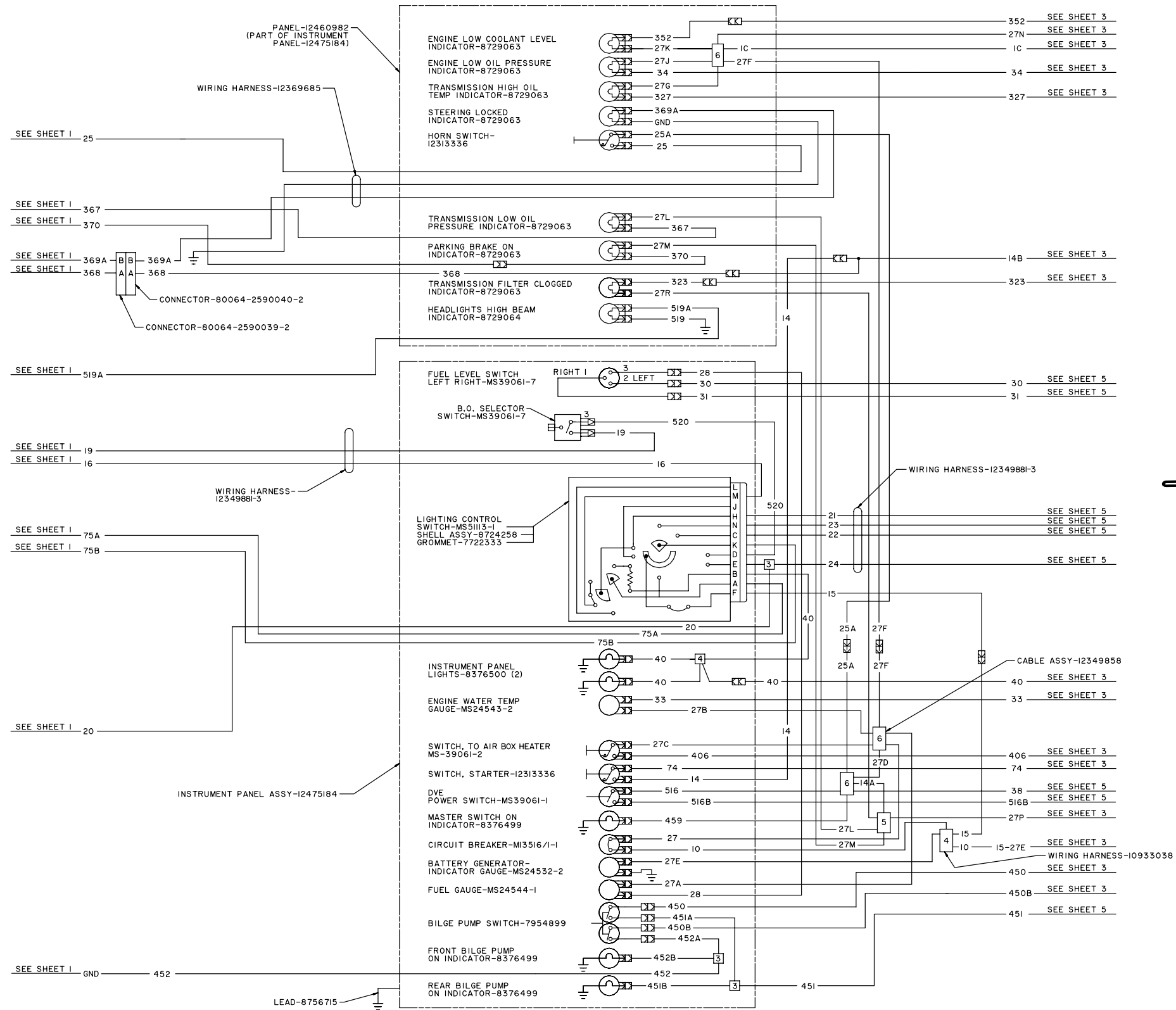


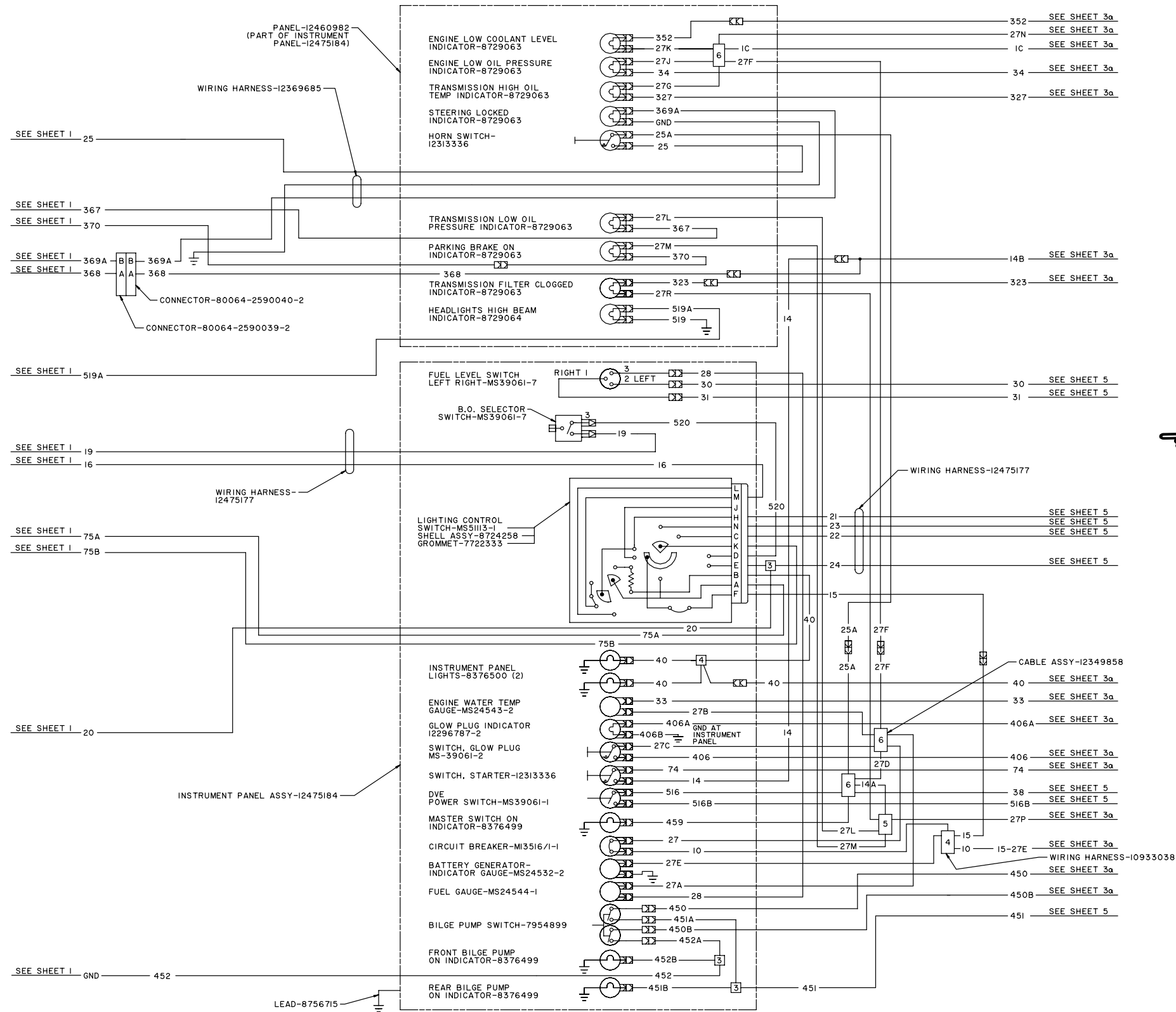


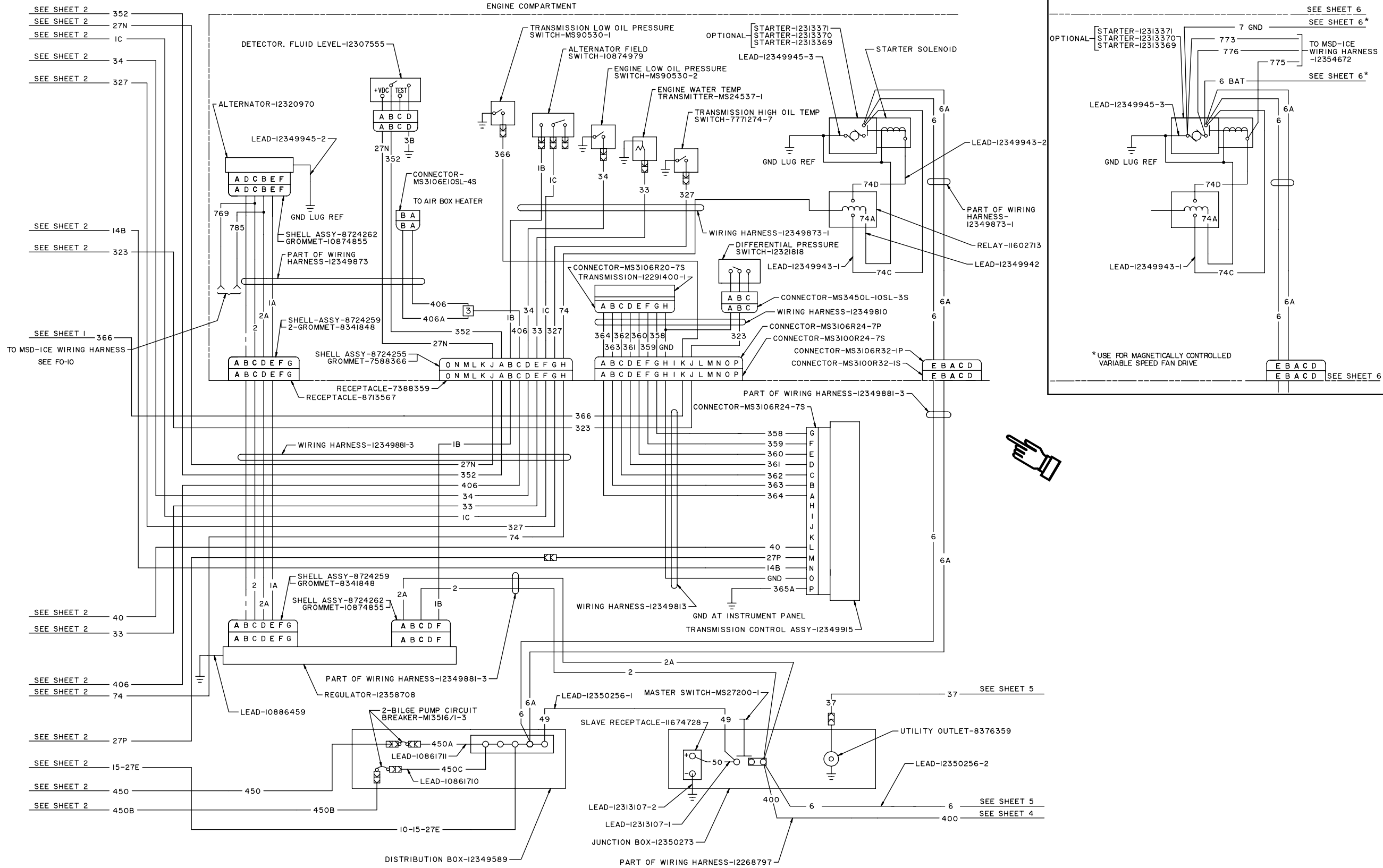


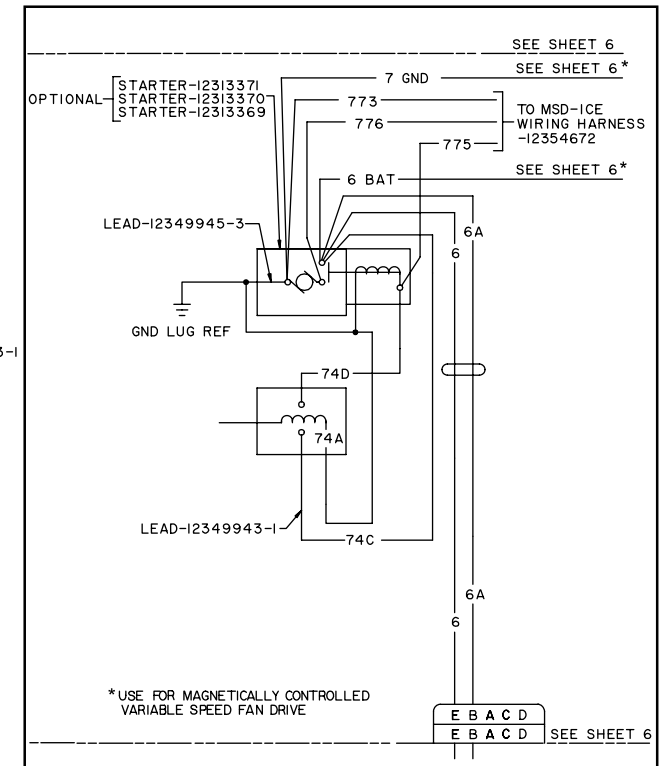
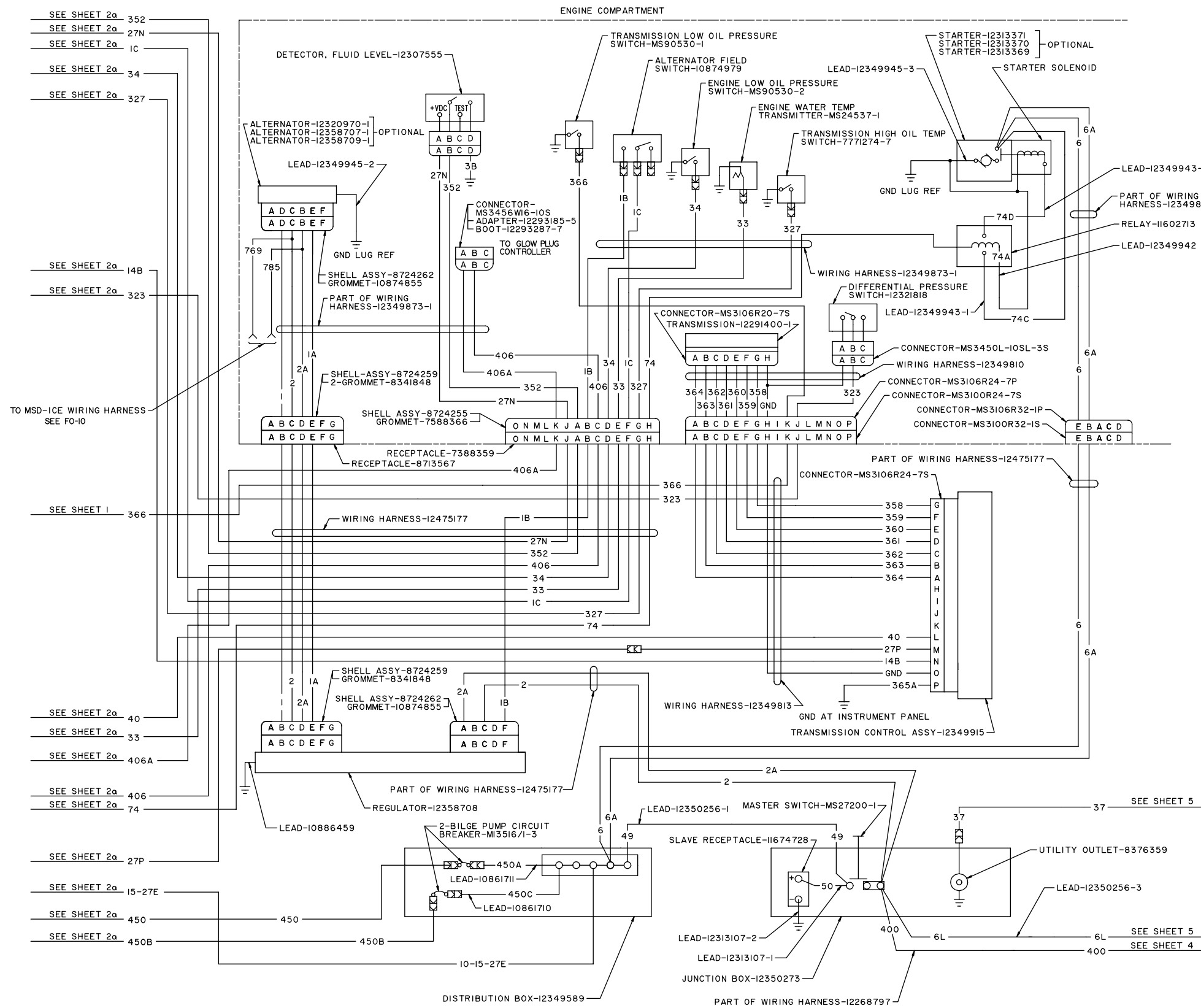


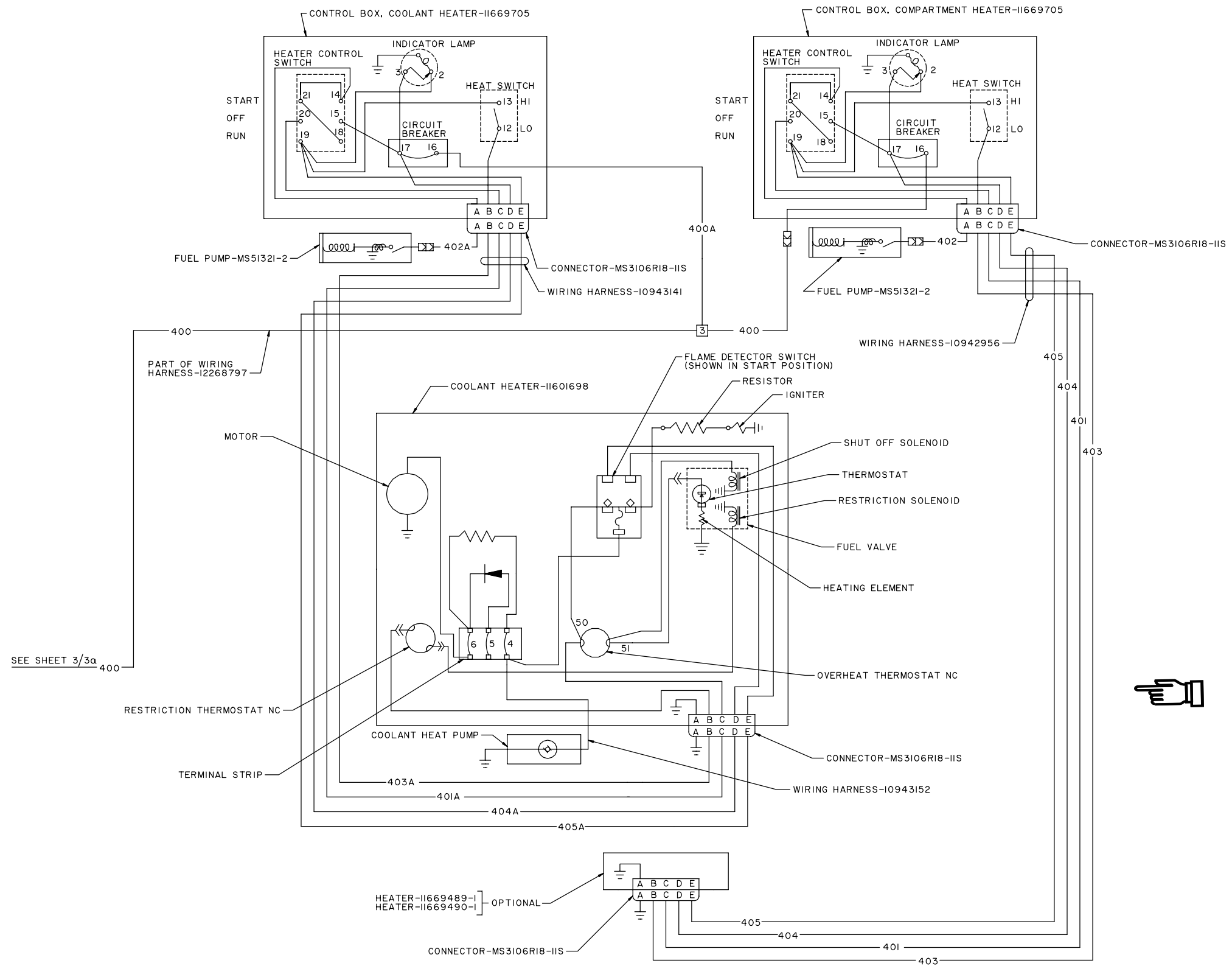


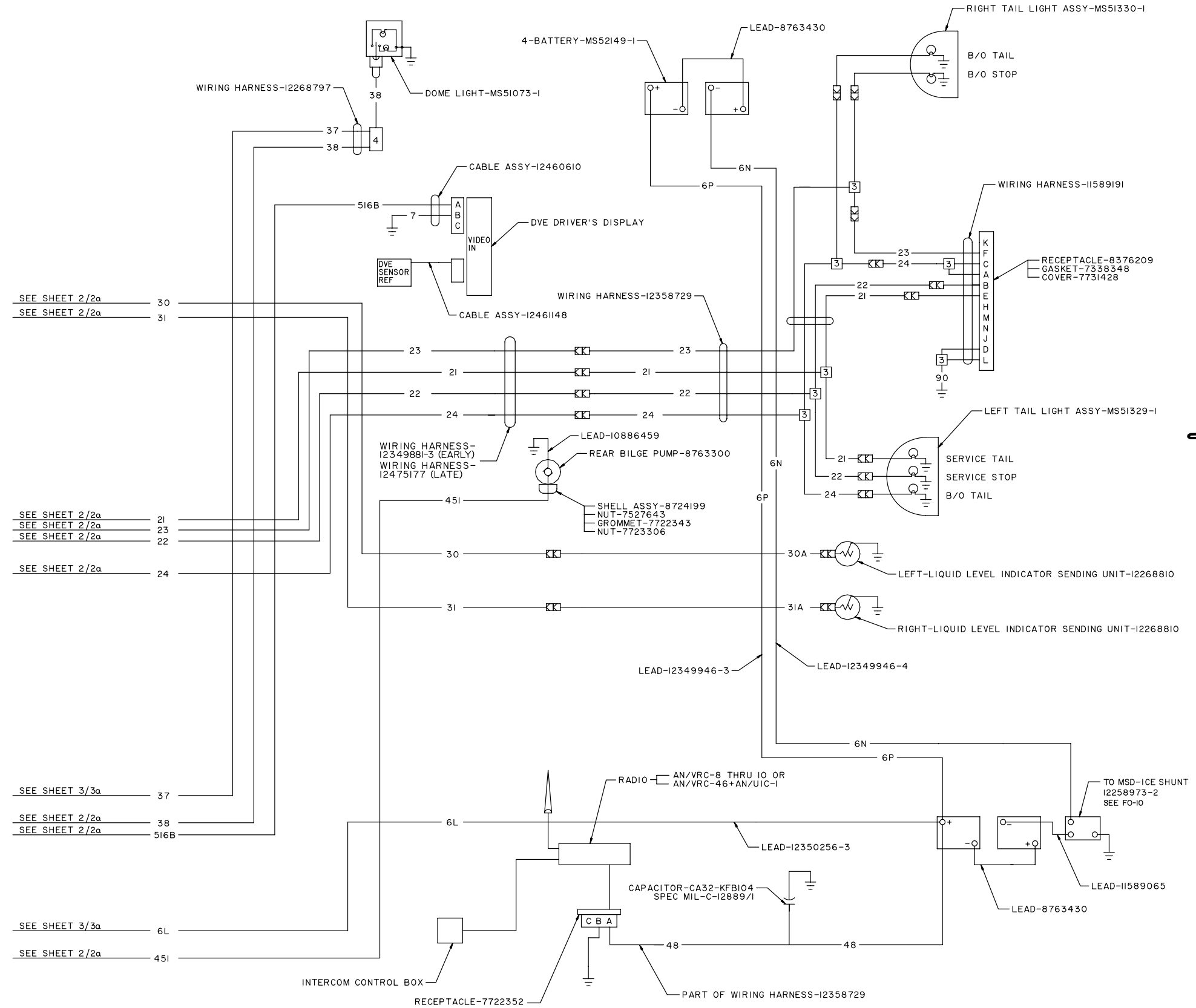


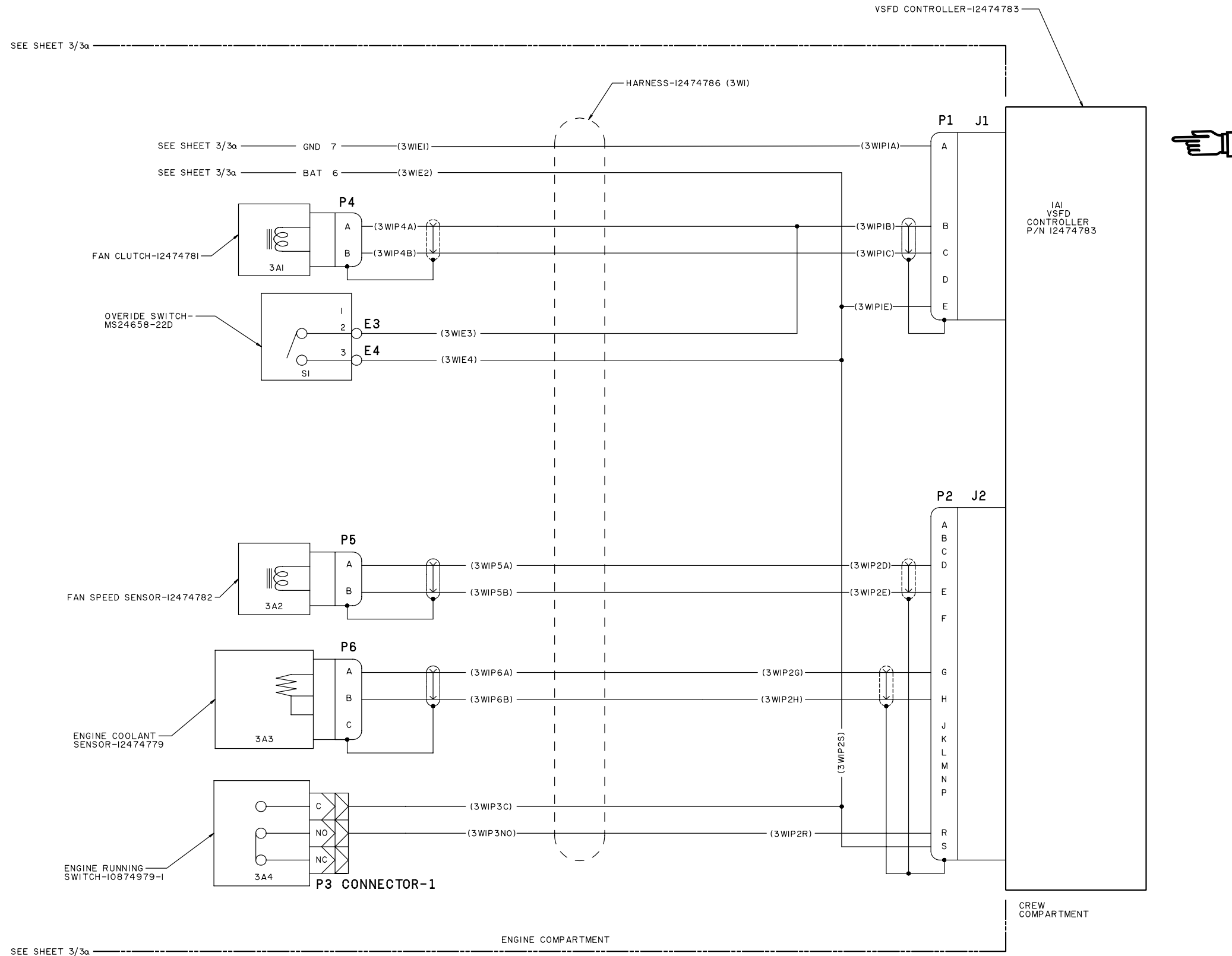


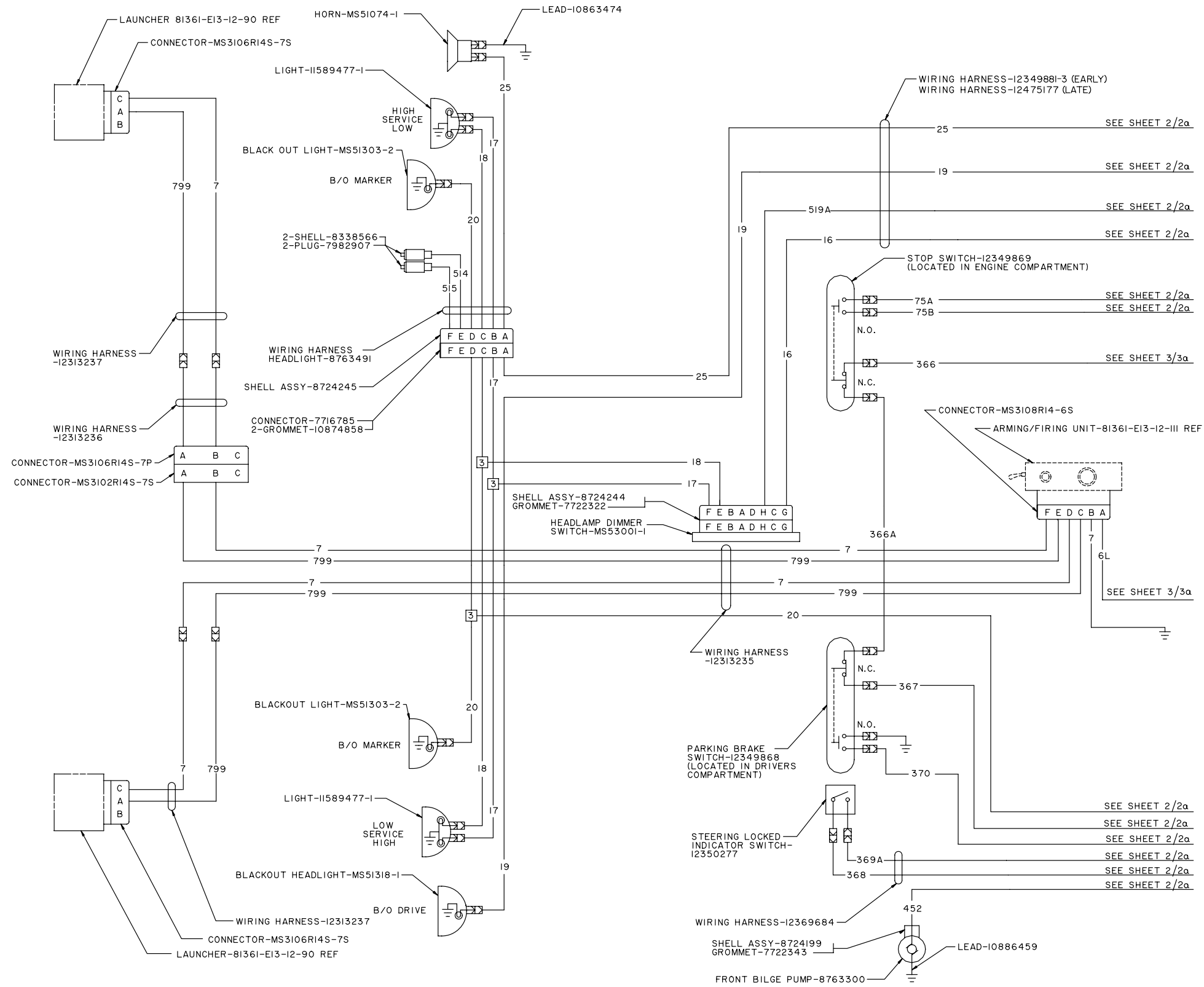


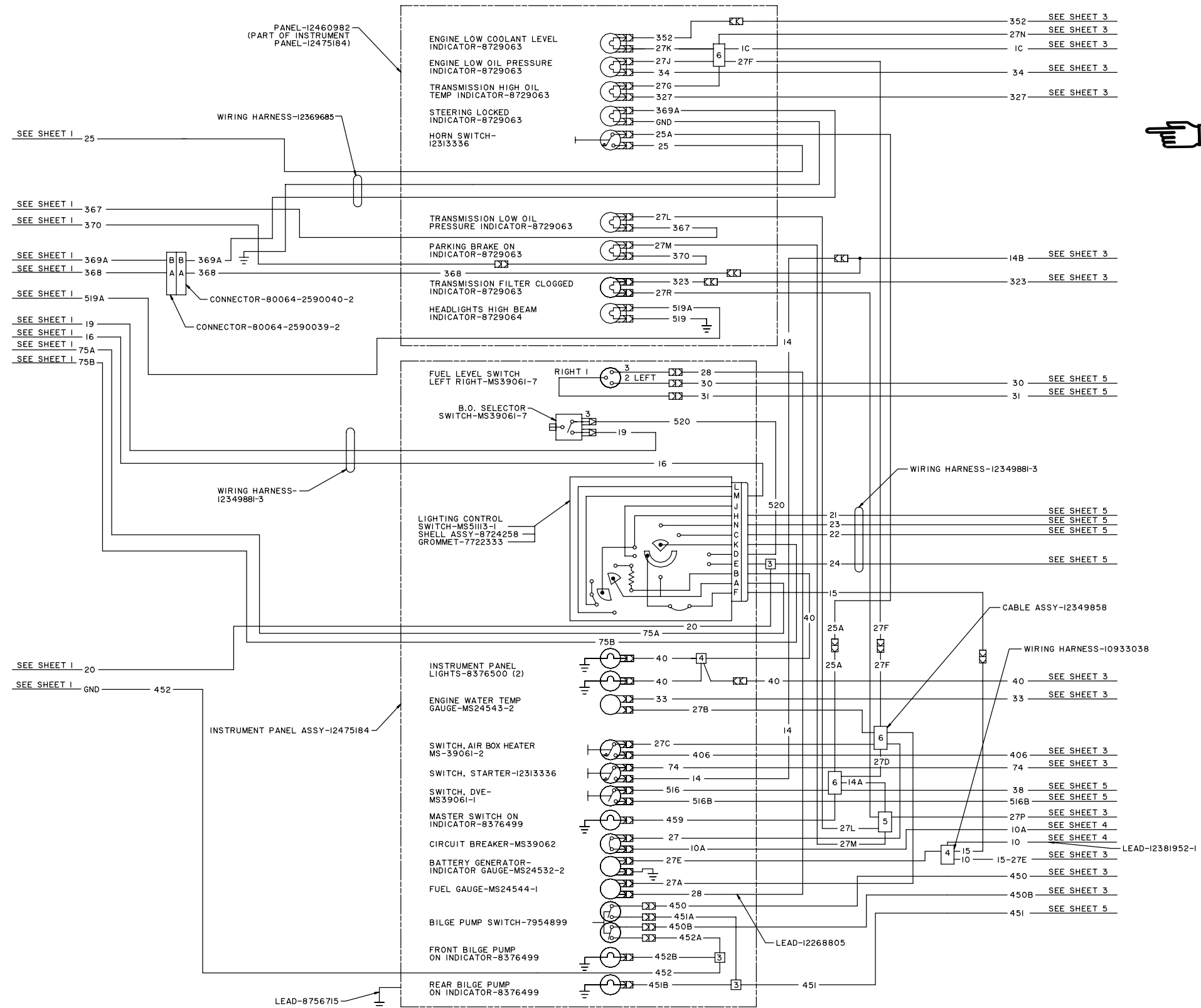


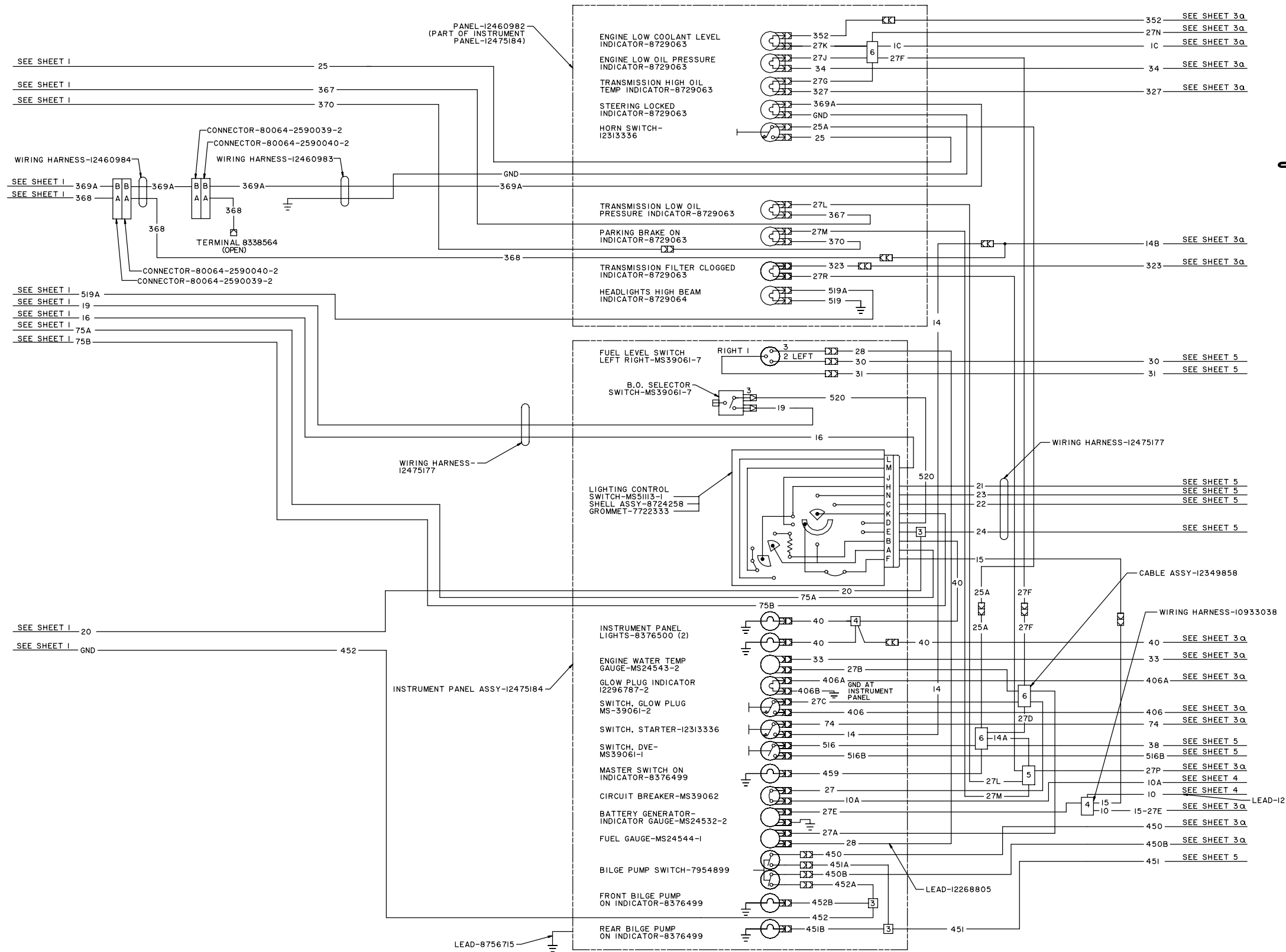


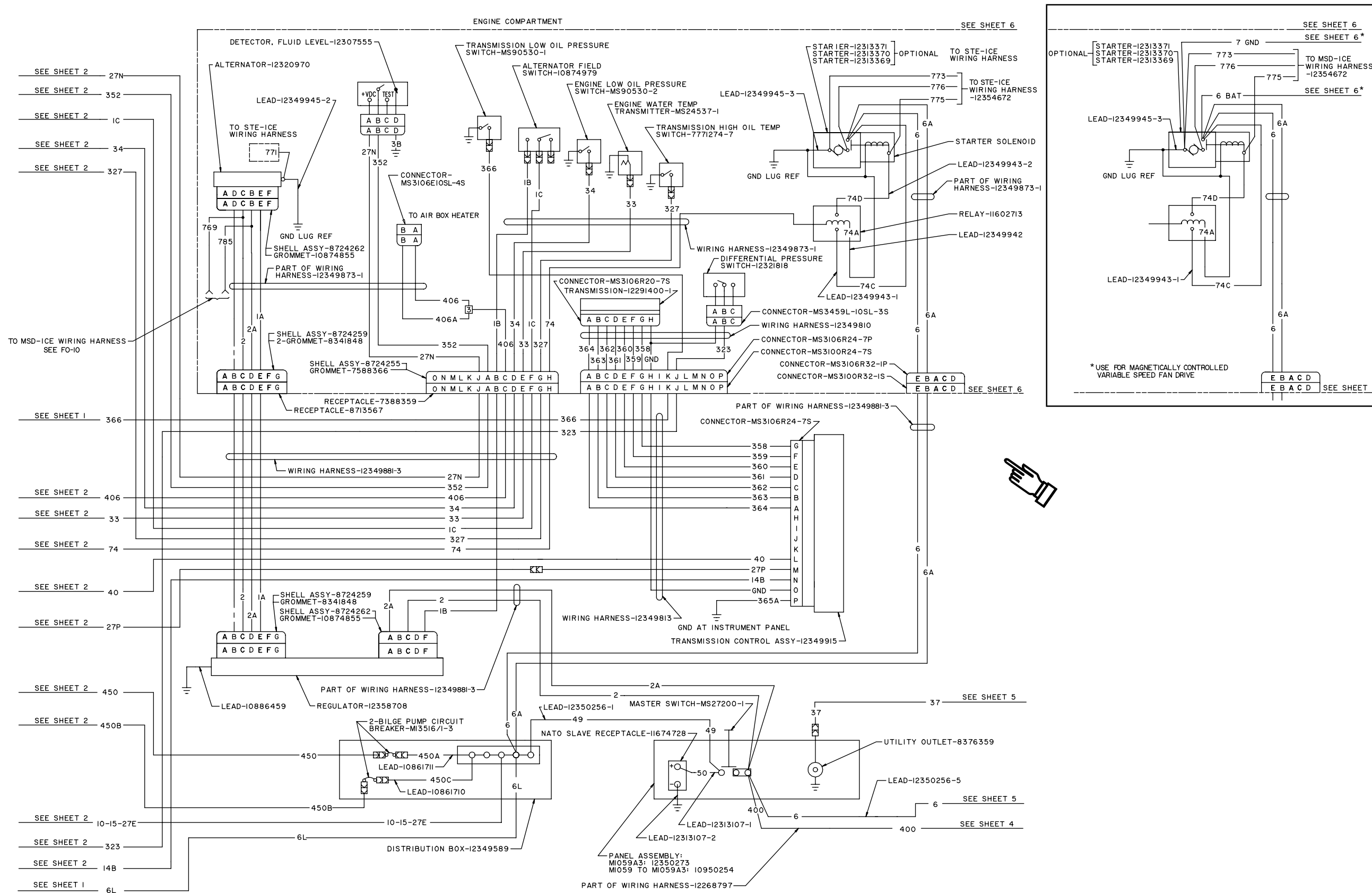


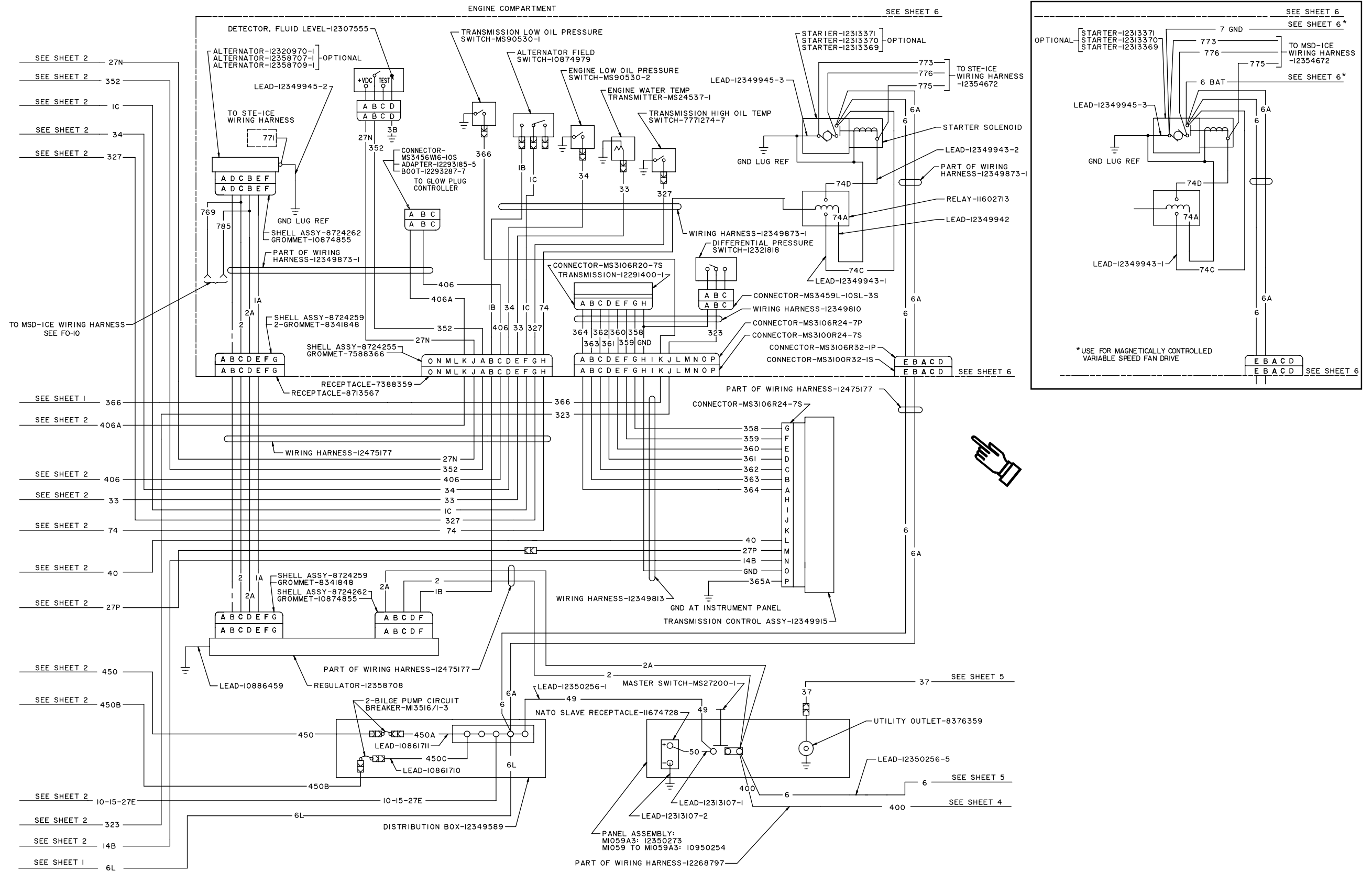


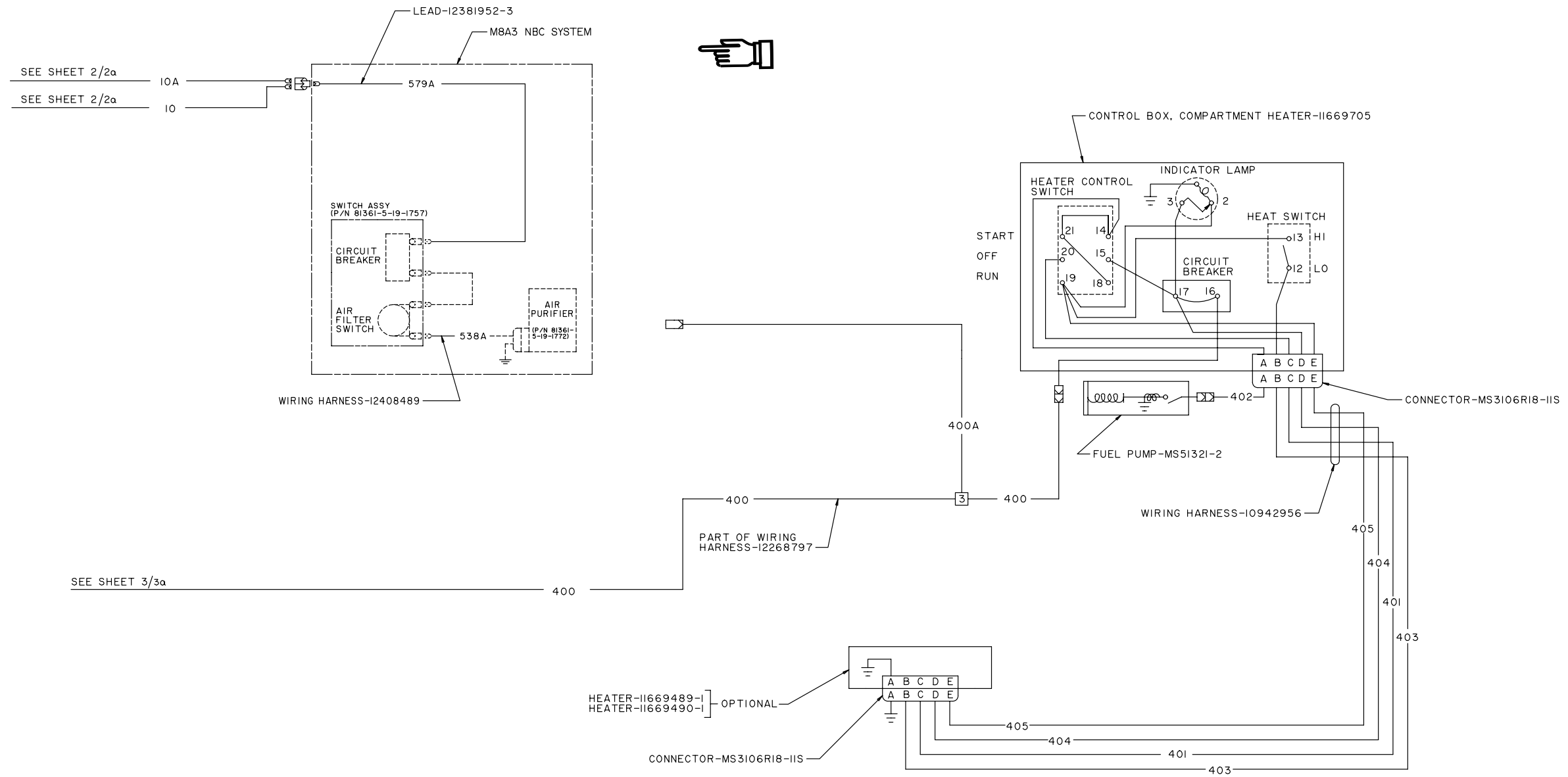


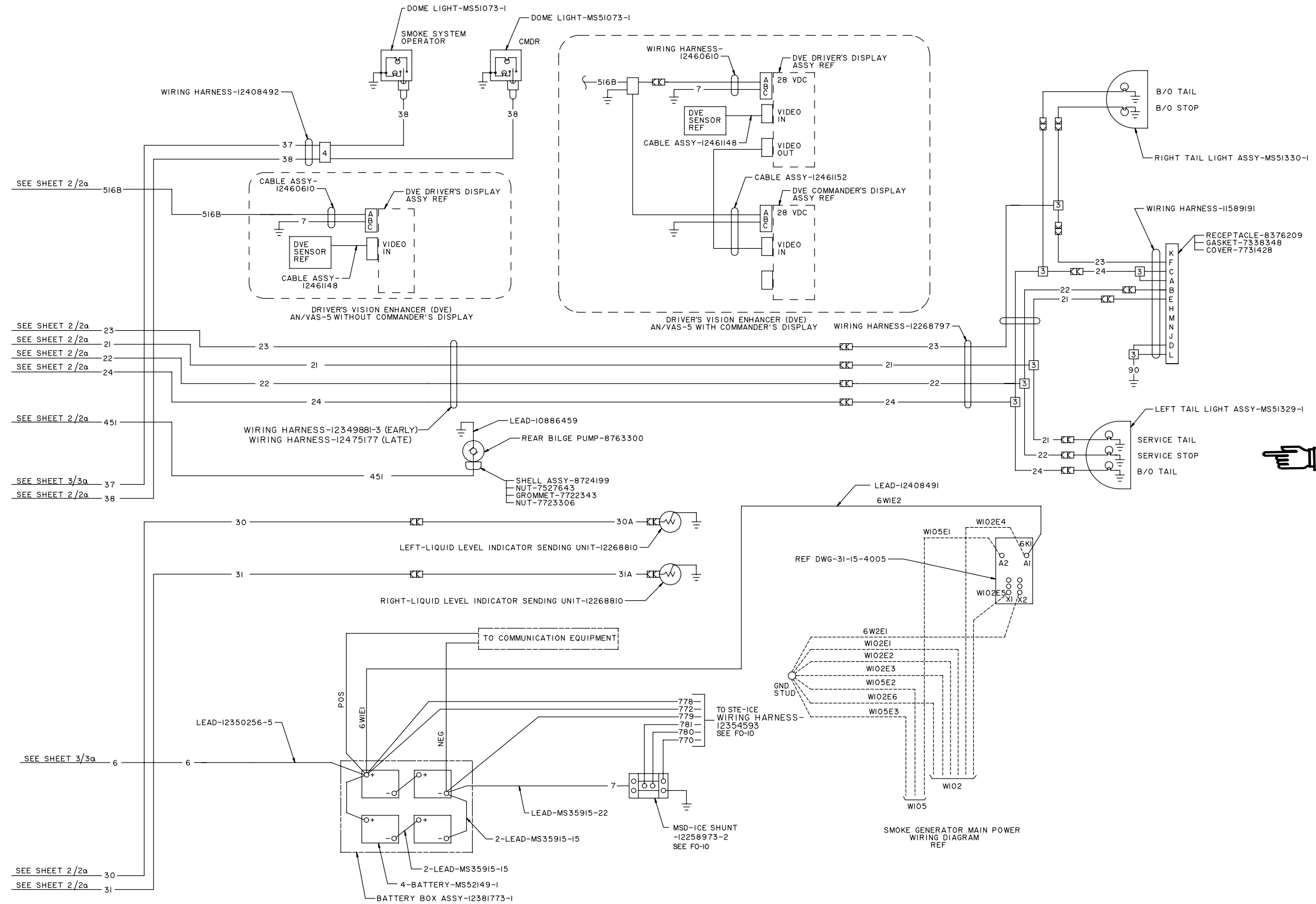


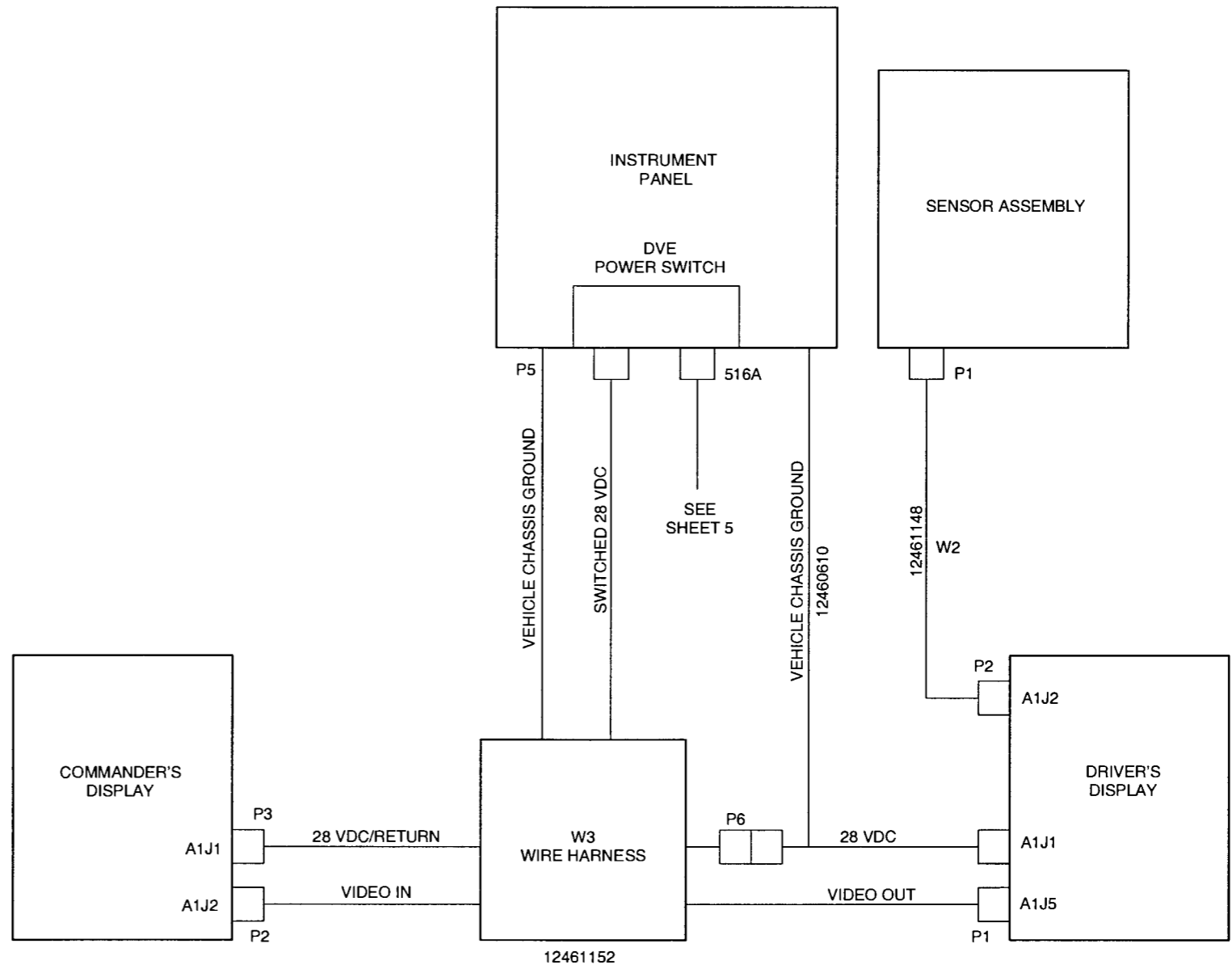


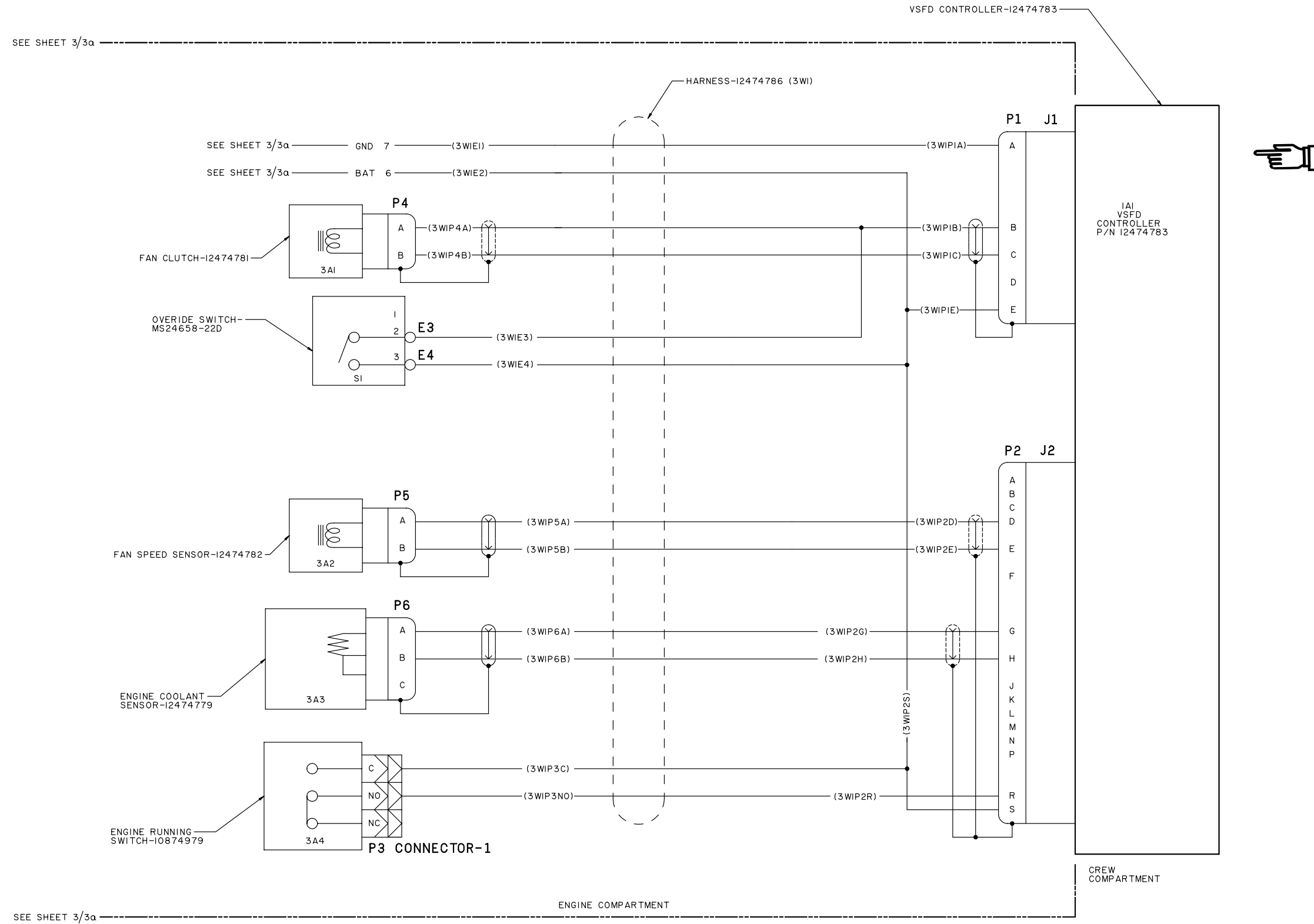


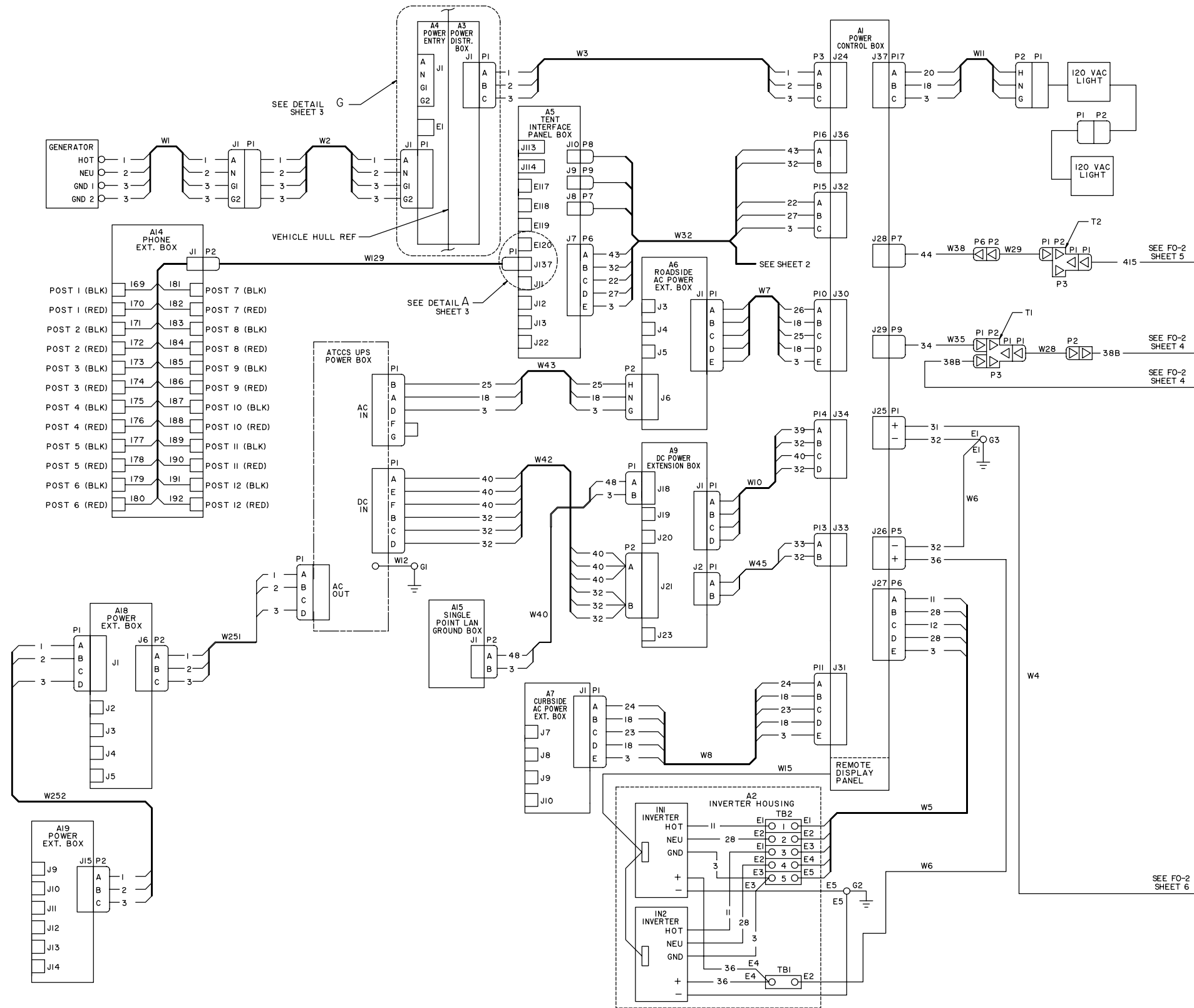


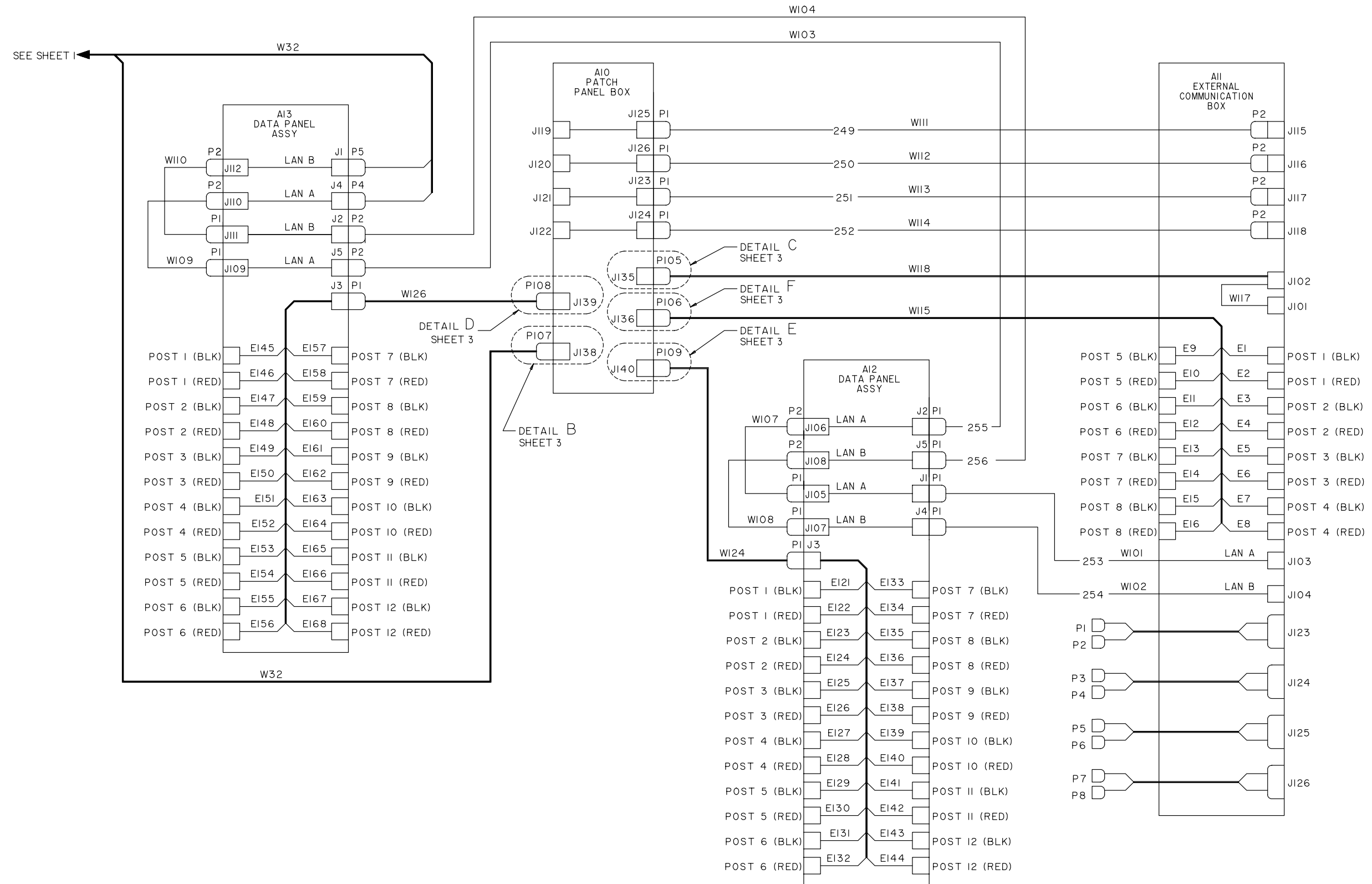


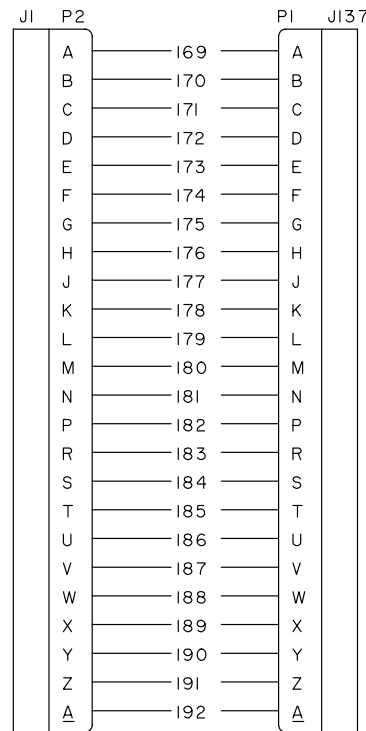




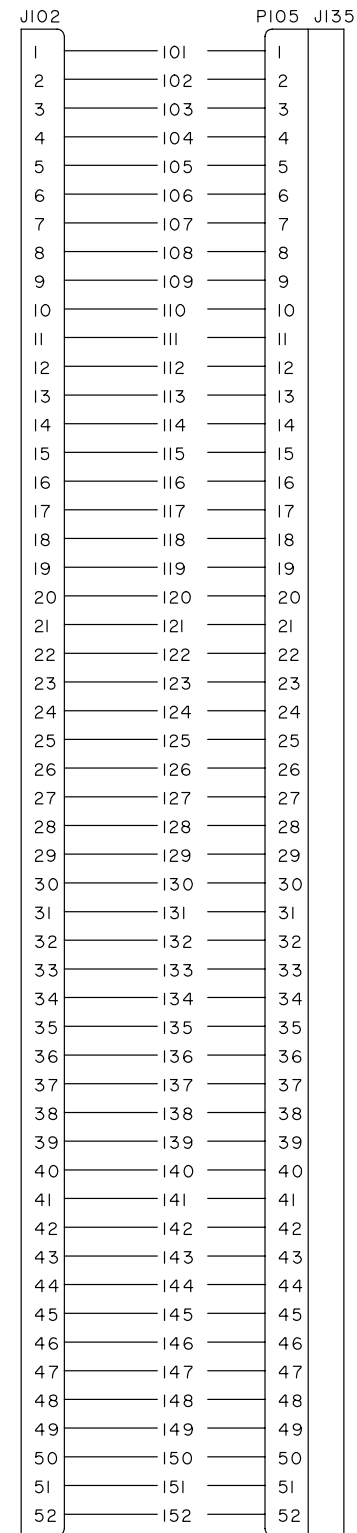




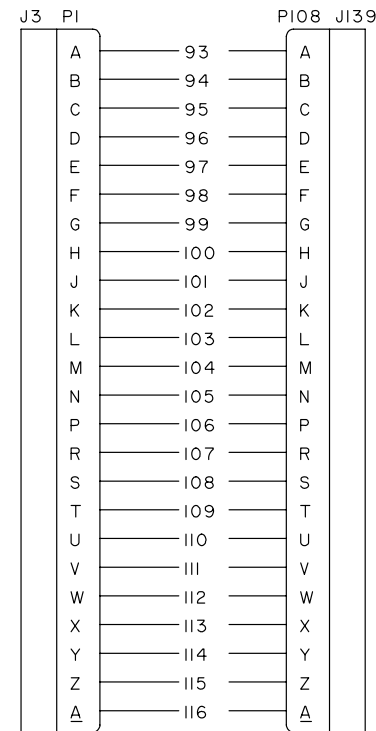




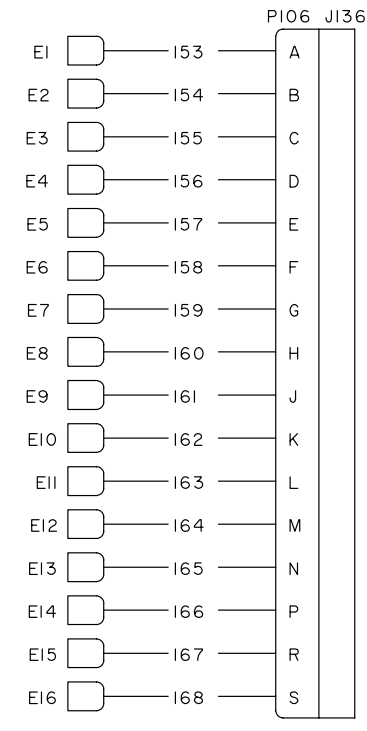
DETAIL A
PINOUTS FOR A14J1 AND A10J137
SEE SHEET 1



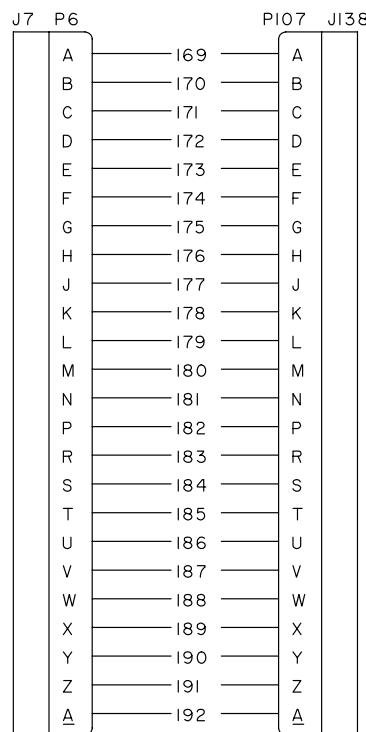
DETAIL C
PINOUTS FOR A11J102 AND A10J135
SEE SHEET 2



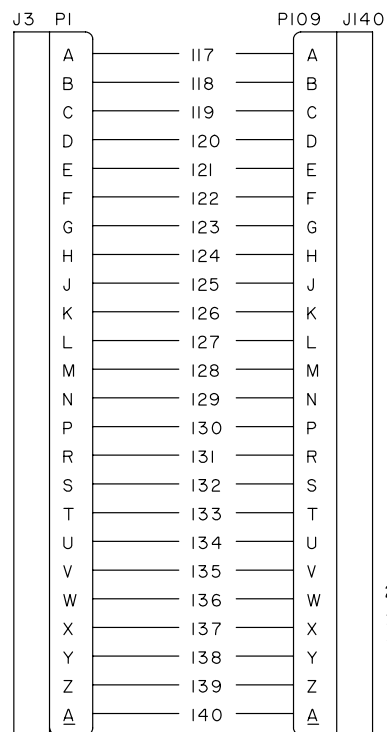
DETAIL D
PINOUTS FOR A13J3 AND A10J139
SEE SHEET 2



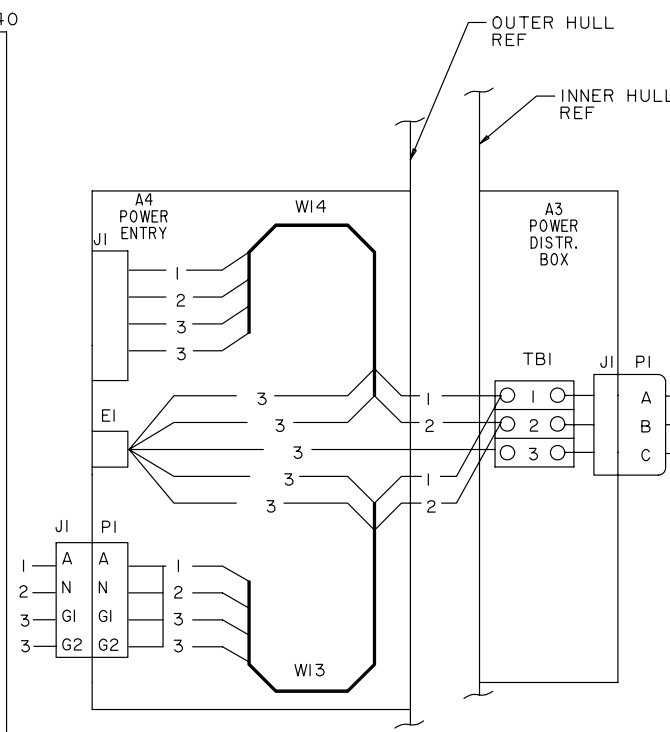
DETAIL F
PINOUTS FOR A11 POST AND A10J136
SEE SHEET 2



DETAIL B
PINOUTS FOR A5J8 AND A10J138
SEE SHEET 2

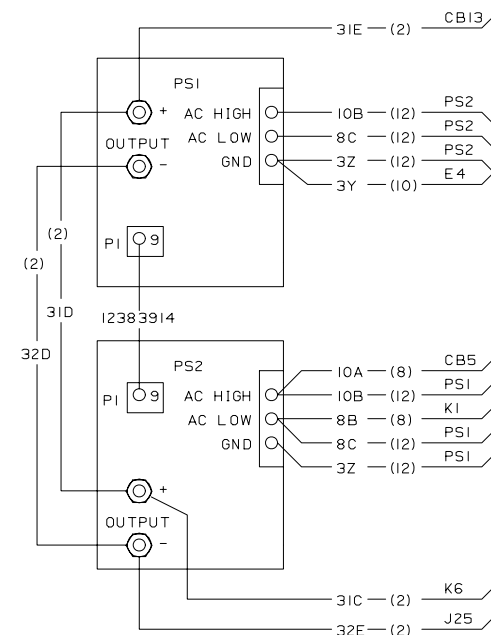
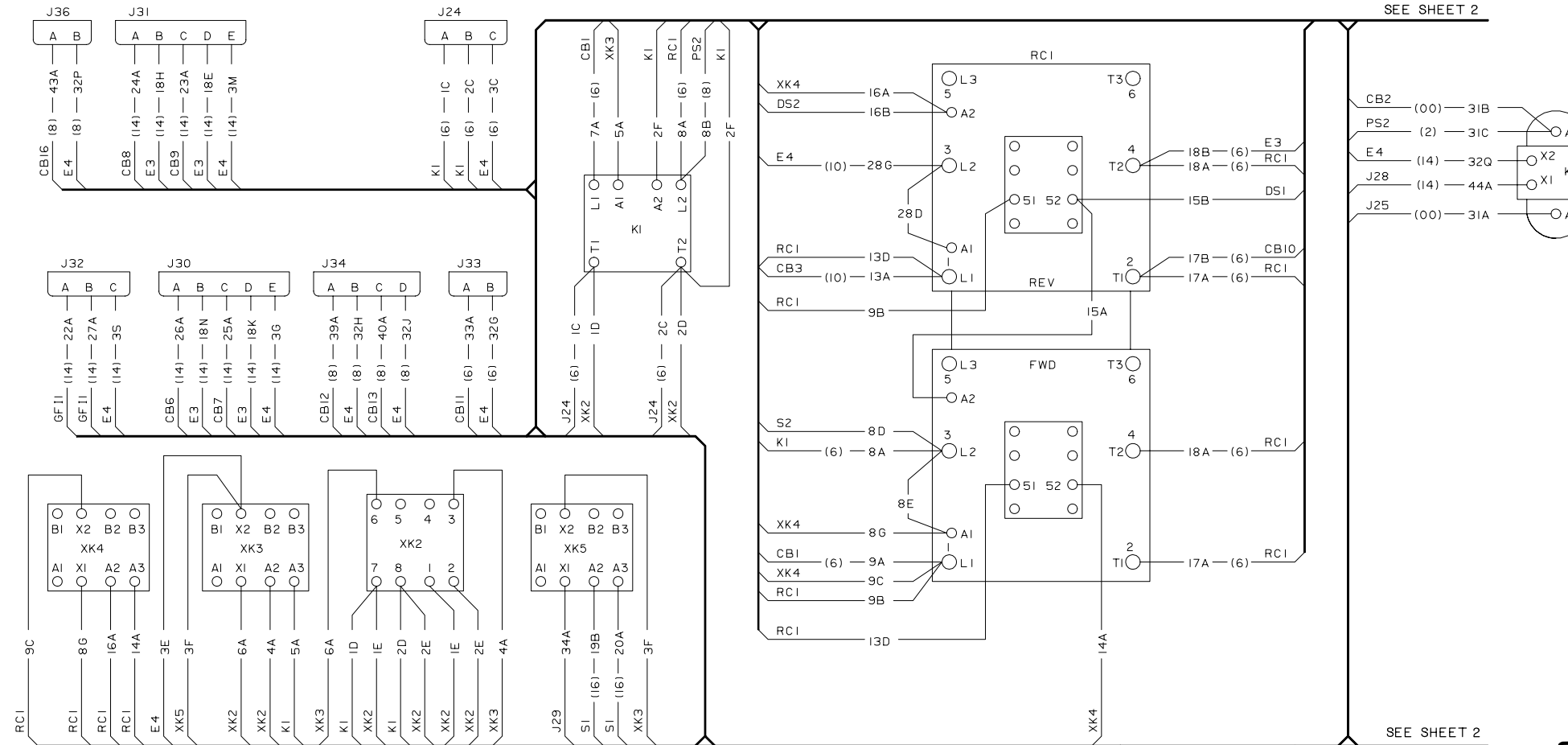


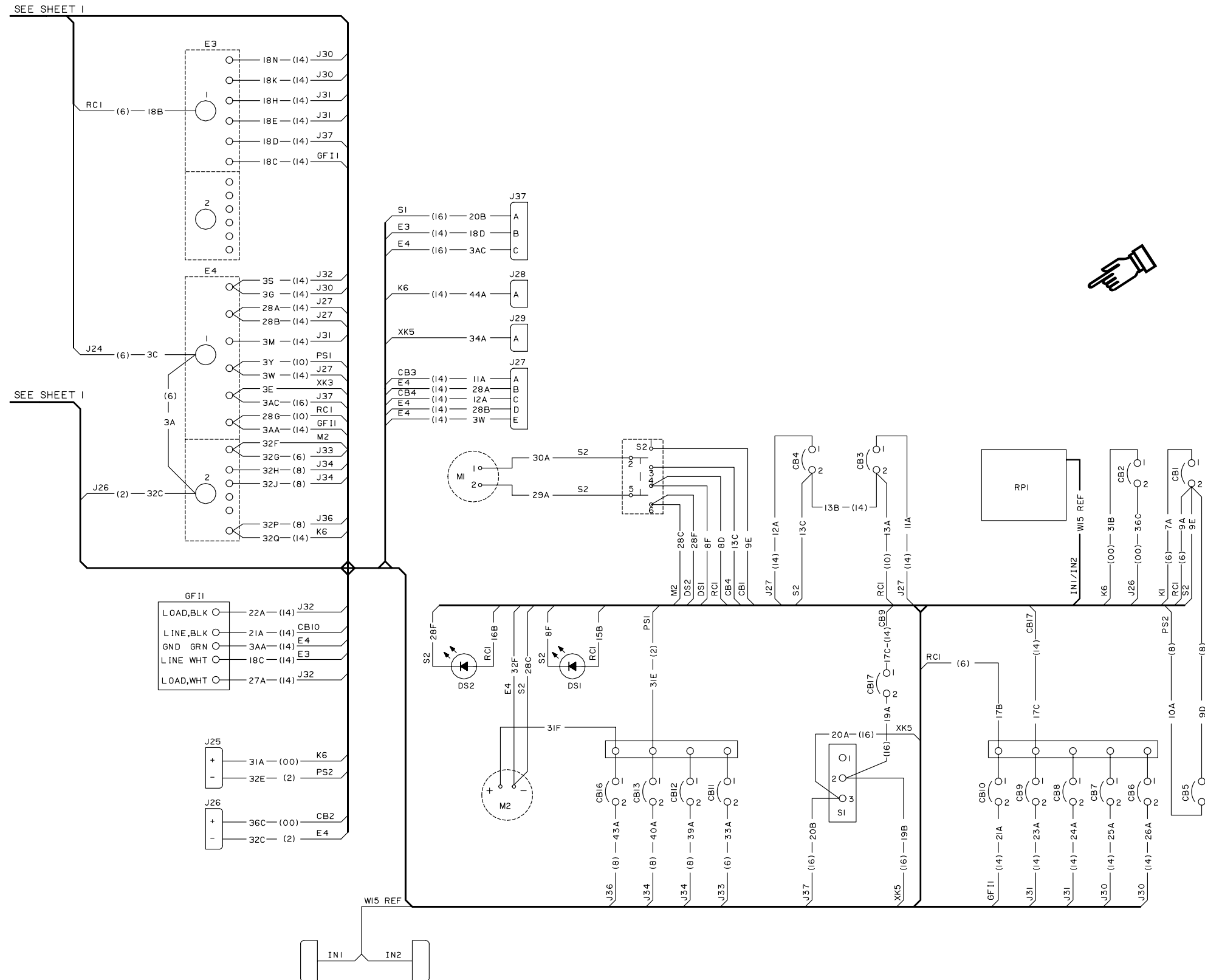
DETAIL E
PINOUTS FOR A12J3 AND A10J140
SEE SHEET 2

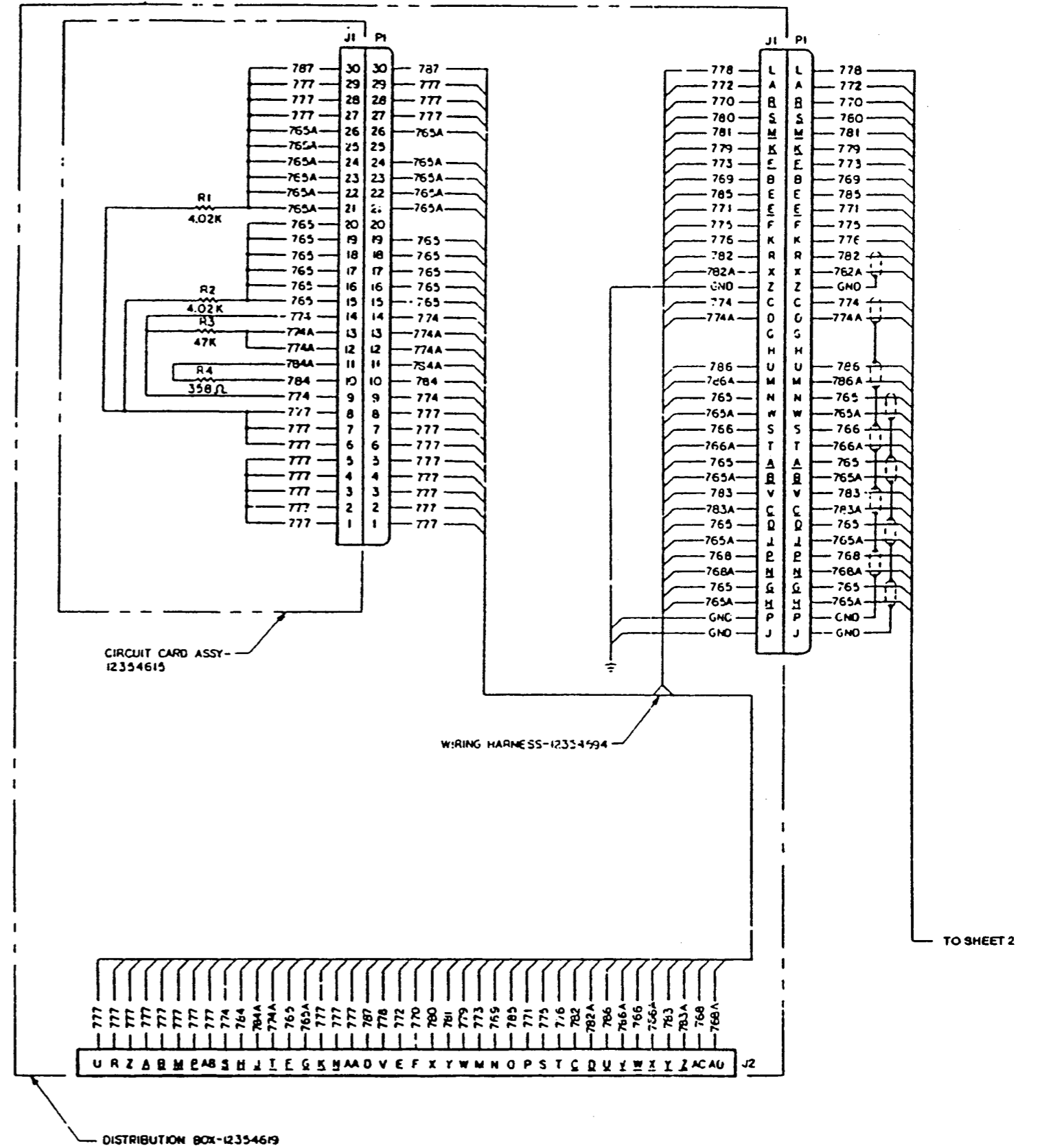


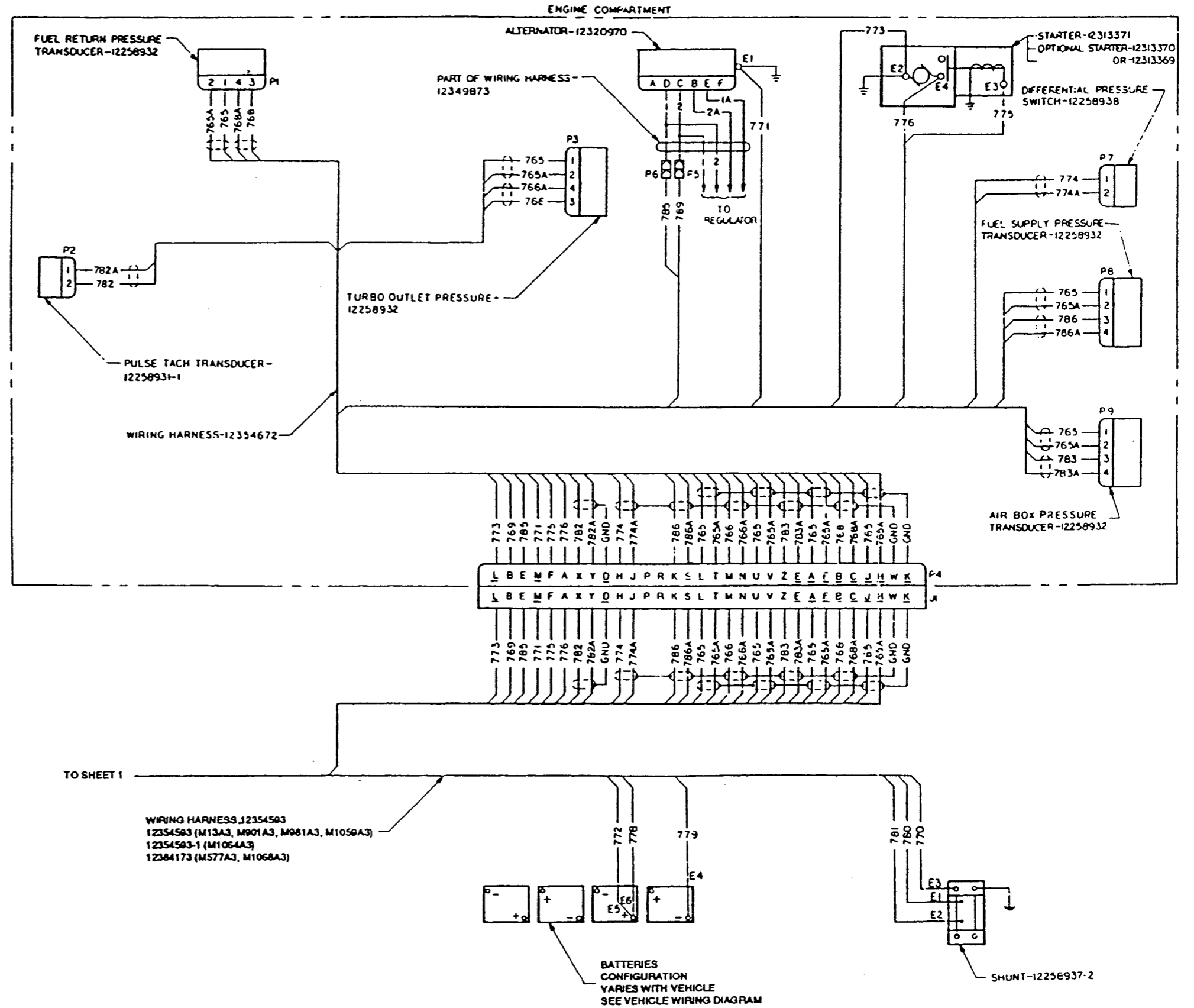
DETAIL G
SEE SHEET 1

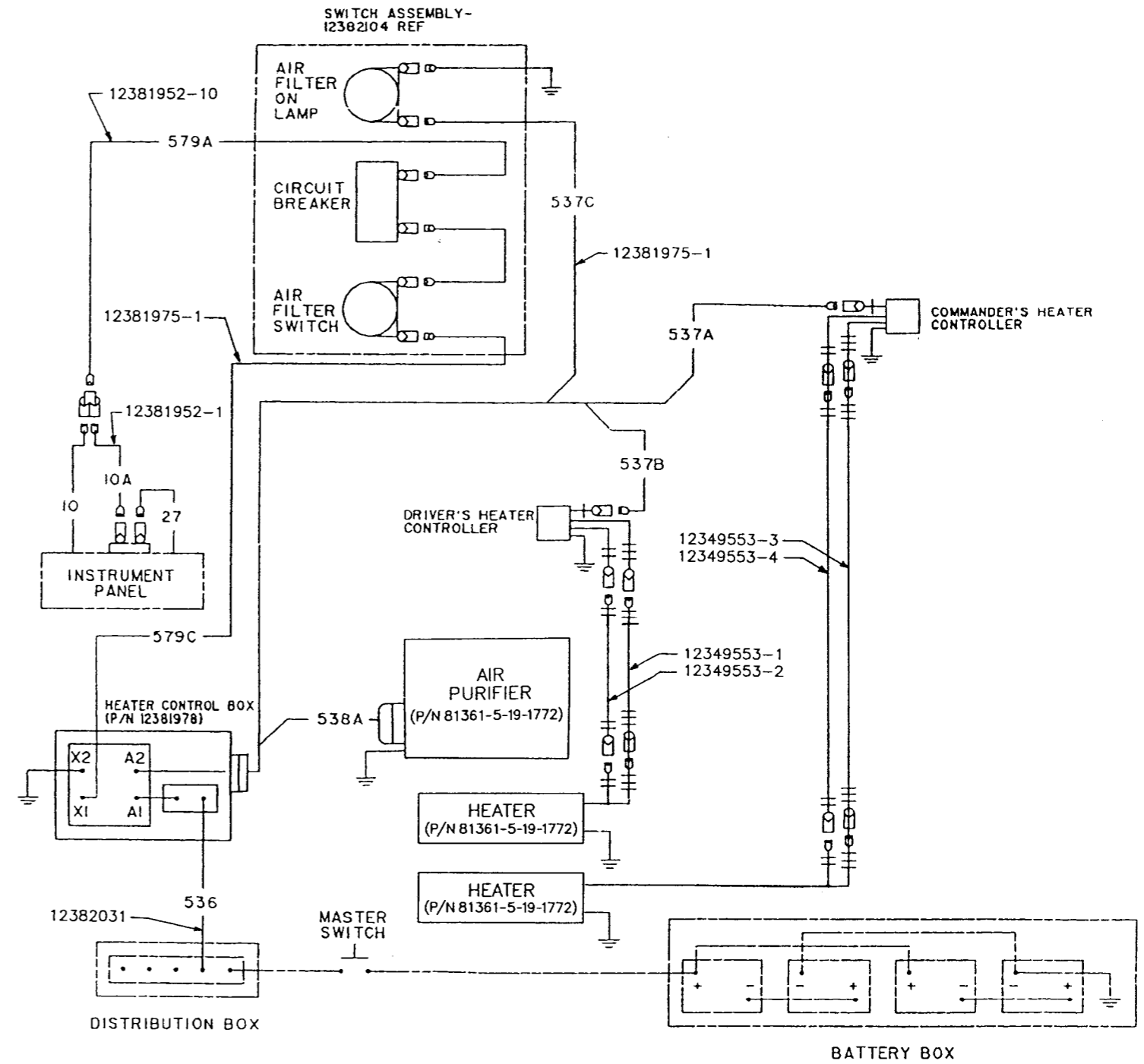
REF DESIG.	NOMENCLATURE	PART NUMBER	SH
A1	POWER CONTROL ENCLOSURE	I2408455-1	SH 2
A2	INVERTER HOUSING	I2383973	SH 2
A3	POWER DISTRIBUTION BOX	I2383977	SH 2
A4	POWER ENTRY	I2383982	SH 2
A5	TENT INTERFACE PANEL BOX	I2383862-1	SH 2
A6	ROADSIDE AC POWER EXTENSION BOX	I2383854-1	SH 2
A7	CURBSIDE AC POWER EXTENSION BOX	I2383854-2	SH 2
A9	DC POWER EXTENSION BOX	I2383859	SH 2
A10	PATCH PANEL BOX	I2383948	SH 3
A11	EXTERNAL COMMUNICATION BOX	I2383967-1	SH 3
A12	DATA PANEL ASSY	I2383883-3	SH 3
A13	DATA PANEL ASSY	I2383883-4	SH 3
A14	PHONE EXTENSION BOX	I2383919	SH 2
A15	SINGLE POINT LAN GROUND BOX	I2383920-1	SH 2
A18	POWER EXTENSION BOX	I2408396	SH 2
A19	POWER EXTENSION BOX	I2408397	SH 2
—	ATCCS UPS POWER BOX	—	SH 2
—	VEHICLE BATTERY	—	SH 2
W1	EXTERNAL POWER INPUT PIGTAIL	I2383915	SH 2
W2	EXTERNAL AC POWER CABLE	I2383864	SH 2
W3	POWER DISTRIBUTION CABLE	I2383899	SH 2
W4	DC BATTERY CABLE	I2382525	SH 2
W5	INVERTER AC CABLE	I2383900	SH 2
W6	INVERTER DC CABLE	I2382524	SH 2
W7	AC POWER EXTENSION CABLE	I2384084-1	SH 2
W8	AC POWER EXTENSION CABLE	I2384084-2	SH 2
W10	DC POWER EXTENSION CABLE	I2384082-2	SH 2
W11	AC LIGHT CABLE	I2383861	SH 2
W12	GROUND STRAP	I2383863	SH 2
W13	CABLE ASSY POWER INPUT	I2382097	SH 4
W14	CABLE ASSY POWER OUTPUT	I2382099	SH 4
W15	SPECIAL PURPOSE CABLE ASSY	I2384233	SH 2
W28	BLACKOUT LIGHT ADAPTER CABLE	I2383880-1	SH 2
W29	BLACKOUT LIGHT ADAPTER CABLE	I2383880-2	SH 2
W32	TENT INTERFACE PANEL CABLE	I2384081	SH 2
W35	BLACKOUT CABLE	I2383904	SH 2
W38	DC MASTER SWITCH CABLE	I2383913	SH 2
W40	SINGLE POINT LAN CABLE	I2383924	SH 2
W42	DC INPUT CABLE	I2383978-1	SH 2
W43	AC INPUT CABLE	I2383979-1	SH 2
W45	CABLE ASSY	I2384083	SH 2
W101	LAN A CABLE	I2383870-3	SH 3
W102	LAN B CABLE	I2383870-4	SH 3
W103	LAN A CABLE	I2383871-9	SH 3
W104	LAN B CABLE	I2383871-10	SH 3
W107	LAN JUMPER CABLE	I2383871-11	SH 3
W108	LAN JUMPER CABLE	I2383871-12	SH 3
W109	LAN JUMPER CABLE	I2383871-13	SH 3
W110	LAN JUMPER CABLE	I2383871-14	SH 3
W111	RF1 CABLE	I2383869-1	SH 3
W112	RF2 CABLE	I2383869-2	SH 3
W113	RF3 CABLE	I2383869-3	SH 3
W114	RF4 CABLE	I2383869-4	SH 3
W115	BINDING POSTS CABLE	I2383908	SH 3
W117	CABLE HOCK CABLE ASSY	I2383868	SH 3
W118	CABLE HOCK CABLE ASSY	I2383909	SH 3
W124	DATA PANEL CABLE ASSY	I2384086-1	SH 3
W126	DATA PANEL CABLE ASSY	I2384086-2	SH 3
W129	PHONE BOX EXTENSION CABLE	I2383918	SH 2
W251	POWER EXTENSION CABLE	I2408389-1	SH 2
W252	POWER EXTENSION CABLE	I2408389-2	SH 2











FO-11. M113A3 NBC Installation wiring Diagram (Sheet 1 of 1)

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is ODISC4.				Use Part II (<i>reverse</i>) for Repair Parts and Special Tools Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).		Date 23 JUL 01	
TO: (<i>Forward to proponent of publication or form</i>) (<i>Include ZIP Code</i>)				FROM: (<i>Activity and location</i>) (<i>include ZIP code</i>) COMMANDER COMPANY A, 216 CAV FORT KNOX, KY 40121			
PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TM 9-2350-277-20-6				DATE 02 JAN 01		TITLE Unit Maintenance Manual for M113A3 FOV	
ITEM	PAGE	PARA	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON	
	0014 00-2					STEP b. THE SCREWS (4) ON BRACKET (2) MUST BE TORQUED PLEASE ADD TORQUE INFORMATION.	
	0023 00-34			5 (SH15)		THERE ARE FOUR CLAMPS (144) ON WIRING HARNESS (217), NOT THREE AS SHOWN. PLEASE CORRECT.	
SAMPLE							
*Reference to line numbers within the paragraph or subparagraph.							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

TO: <i>(Forward direct to addressee listed in publication)</i>	FROM: <i>(Activity and location) (Include Zip Code)</i>	DATE
--	---	------

PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER			DATE			TITLE		
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III - REMARKS *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

SAMPLE

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS

For use of this form, see AR 25-30: the proponent agency is ODISC4.

Use Part II (*reverse*) for Repair Parts and Special Tools Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).

Date

TO: (*Forward to proponent of publication or form*) (*Include ZIP Code*)

FROM: (*Activity and location*) (*include ZIP code*)

PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS

PUBLICATION/FORM NUMBER
TM 9-2350-277-20-6

DATE
02 JAN 01

TITLE
Unit Maintenance Manual for M113A3 FOV

ITEM	PAGE	PARA	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON

**Reference to line numbers within the paragraph or subparagraph.*

TYPED, GRADE OR TITLE

TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION

SIGNATURE

TO: <i>(Forward direct to addressee listed in publication)</i>	FROM: <i>(Activity and location) (Include Zip Code)</i>	DATE
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By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON

*Administrative Assistant to the
Secretary of the Army*

0026303

ERIC K. SHINSEKI
*General, United States Army
Chief of Staff*

DISTRIBUTION: To be distributed in accordance with the initial distribution requirements for IDN: 371205, requirements for TM 9-2350-277-20-6.

THE METRIC SYSTEM AND EQUIVALENTS

LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 Lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

TEMPERATURE

$5/9 (^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $(9/5 \times ^{\circ}\text{C}) + 32 = ^{\circ}\text{F}$

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621

